

# UNIVERSITY of LOUISVILLE<sup>®</sup>

*dare to be great*

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## *Fall 2004–Summer 2006 Undergraduate Catalog*



Revised May 2004

The University of Louisville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4907; Telephone number 404-679-4501) to award associate, bachelor, master's, doctoral, and first professional degrees (D.M.D., J.D., M.D.).

The University of Louisville reserves the right to change programs of study, academic policies, academic requirements, fees, schedules of courses, procedures for the confirmation of degrees, or the announced academic calendar without prior notice.

The course information provided herein are for the guidance of students. The University, however, reserves the right to change course information without prior notice.

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

The University of Louisville is an equal-opportunity institution and does not discriminate against persons because of race, religion, sex, age, handicap, color, citizenship or national origin.

Inquiries or complaints about illegal discrimination including sexual harassment or handicap access can be made to the Affirmative Action director (852-6538) if response from the unit staff is unsatisfactory.

The *Redbook* is the official statement of the organizational structure, the rules of governance and procedures and university-wide policies of the University of Louisville. If there is any conflict between the policies, procedures or other statements

contained within this catalog, the *Redbook* shall govern. A copy of *The Redbook* is available electronically on the world-wide web at [www.louisville.edu](http://www.louisville.edu).— then select: "Faculty/Staff", "Office of the Provost", "Administration and Governance", "Redbook".

Official copies are maintained by all University Libraries, the Student Government Association Office, the student grievance officer, and the vice president for student affairs. Other policies and information covering students can be found in the Student Handbook.

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### Admissions Policies

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

### General Education Requirements

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

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## Institutional and Professional Accreditation and Membership

### Institution Accreditation

#### Southern Association of Colleges and Schools

The University of Louisville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4907; Telephone number 404-679-4501) to award associate, bachelor, master's, doctoral, and first professional degrees (D.M.D., J.D., M.D.).

### Professional Accreditation for Undergraduate Programs

#### **Business and Accountancy—**

The Association to Advance Collegiate Schools of Business (AACSB International)

#### **Chemistry—**

American Chemical Society

#### **Dental Hygiene—**

Commission on Dental Accreditation of the American Dental Association

#### **Education—**

National Council for Accreditation of Teacher Education (NCATE) and the Kentucky Education Professional Standards Board

**Engineering** (chemical, civil, computer, electrical, industrial, and mechanical engineering; computer science)—

Accreditation Board for Engineering and Technology, Inc. (ABET)

#### **Interior Design—**

Foundation for Interior Design Education Research

#### **Music—**

National Association of Schools of Music

#### **Nursing—**

Fully accredited (undergraduate and graduate programs) by the Commission on Collegiate Nursing Education (CCNE)

#### **Paralegal Studies—**

American Bar Association's Standing Committee on Legal Assistants

#### **Sport Administration—**

Sport Management Program Review Council (Co-sponsored by the North American Society for Sport Management and the National Association of Sport and Physical Education)

## Academic Calendar for 2004-2005

### Fall 2004 Semester

Classes start .....August 23 .....Monday  
Last day of registration.....August 23 .....Monday  
Last day to add/drop a course.....August 27 .....Friday  
Labor holiday .....September 6 .....Monday

Last day to apply for degree .....September 10 .....Friday  
Mid-term break .....October 11-12 .....Monday, Tuesday  
Last day to withdraw .....October 14 .....Thursday  
Election day.....November 2 .....Tuesday  
Thanksgiving vacation .....November 24-28 .....Wednesday-Sunday  
End of classes.....December 7 .....Tuesday  
Reading day .....December 8 .....Wednesday  
Final examinations .....December 9-15 .....Thursday-  
Wednesday

Degree date .....December 16 .....Thursday  
December Commencement .....December 16 .....Thursday evening

### Spring 2005 Semester

Classes start .....January 10 .....Monday  
Last day of registration.....January 10 .....Monday  
Last day to add/drop a course.....January 14 .....Friday  
Martin Luther King Jr. Day holiday .....January 17 .....Monday  
Last day to apply for degree .....January 28 .....Friday  
Last day to withdraw .....February 28 .....Monday  
Spring vacation .....March 14-20 .....Monday-Sunday  
End of classes.....April 25 .....Monday  
Reading day .....April 26 .....Tuesday  
Final examinations .....April 27-May 3 .....Wednesday-Tuesday  
May Commencement.....May 14 .....Saturday

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

## Policy on Work-Restricted Religious Holidays

Federal law and University policy prohibit discrimination on the basis of religious belief. Students who observe work-restricted religious holidays must be allowed to do so without jeopardizing their academic standing in any course. Faculty are obliged to accommodate students' request for adjustments in course work on the grounds of religious observance, provided that the students make such requests in writing during the first two weeks of term.

Deans and department chairs must investigate and resolve student complaints arising from alleged faculty failure to make reasonable accommodation under these guidelines.

**Note:** A calendar of typical work-restricted holidays is available at:  
<http://www.louisville.edu/ur/onpi/infoctr/wr.htm>

\* Information about specific holidays are also available by phone from the Multi-ethnic and Cross-cultural Programs (MC<sup>2</sup>) at 852-8867.

# General Information for Undergraduates

The University of Louisville is a state-supported research university located in the nation's 16th largest city. U of L enrolls more than 21,000 students and offers undergraduate degrees in more than 70 fields of study, master's degrees in approximately 55 areas and doctoral degrees in more than 20 disciplines. It also grants professional degrees in medicine, dentistry and law.

U of L contributes significantly to the economic, cultural and intellectual life of the Louisville community, yet the magnitude of its achievements reach beyond Louisville into every corner of Kentucky and across the nation.

U of L's 120,000 alumni live in all Kentucky counties, in every state and around the world. U of L has trained about 30 percent of Kentucky's physicians, 47 percent of its dentists and 31 percent of its attorneys.

At U of L, students learn from faculty members who are experts in their subject areas. Nearly 90 percent of the 1,382 full-time professors hold the highest degrees in their fields.

In addition to their classroom duties, U of L faculty are leading research projects funded at more than \$115 million in federal and private grants. Those same professors share the latest knowledge with students in the classroom.

Faculty and student researchers are aided by leading-edge computer systems and laboratories. They may also gather information from across the ages and around the world through a six-branch library system that offers more than 1.8 million volumes and nearly 600 computer workstations with Internet capability.

A diverse student body enriches the educational experience at U of L. Students of color represent 12 percent of enrollment and international students total nearly 6 percent. Kentucky students account for 83 percent of the student population with 55 percent coming from Jefferson County. Slightly more than 17 percent of students are from other states.

More than 150 campus organizations help students meet new friends, develop leadership skills and explore new interests. The Student Activities Center, the hub of much of campus life, includes a bookstore, food court, restaurant, movie theater, lounge and study areas, mini mart, and recreation and fitness facilities. Sports fans are also able to enjoy Division I men and women's athletics.

U of L's 273-acre Belknap Campus is home to eight of its 11 schools and colleges: arts and sciences, business and public administration, education and human development, engineering,

graduate studies, law, music and social work. The Health Sciences Campus, located in the city's downtown medical complex, includes the schools of medicine, nursing and dentistry, public health, and U of L Hospital.

U of L was established in 1798 as one of the nation's first urban institutions. Though grounded in a rich legacy, U of L is forward thinking in its approach to teaching, research and service. As it focuses on the challenges and opportunities of the 21st century, the university advances the social and economic development of its community and its citizens.

## History of the University

During the early 19th century, the growing importance of water transportation, coupled with a strategic location at the falls of the Ohio River, made Louisville a commercial hub for the South and West. As the city's population and economy advanced, so did its institutions. In 1837 the Louisville Medical Institute opened for its first class, and the next year, the city created the Louisville Collegiate Institute. The two schools had no official connection, but they both manifested the city's dream of intellectual as well as mercantile leadership. In 1844 the Collegiate Institute inherited property from the defunct Jefferson Seminary, which had been chartered in 1798.

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

Most of the professors in the medical and law schools were drawn from the ranks of local physicians and attorneys who considered teaching a part-time vocation. By the 1880s and 1890s, however, the University felt some pressure from the educational reformers who not only believed

schools should employ full-time instructors, but who advocated well-enforced, national standards for academic training. In 1907, this trend contributed to the revival of the College of Arts and Sciences, which had been all but forgotten for most of the 19th century. As the university added new programs such as the Graduate School (1915), School of Dentistry (1918), Speed Scientific School (1925), Louisville Municipal College (1931), School of Music (1932), and Kent School of Social Work (1936), conformity to accreditation guidelines became increasingly important. Expanded academic programs and the adherence to higher educational standards led to the appointment of full-time administrators early in the 20th century.

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

The University of Louisville is one of the oldest urban universities in the United States. From its inception, U of L has been dedicated to providing programs related to the needs of the Louisville urban area. The mission statement adopted by the Council on Postsecondary Education on July 11, 1994, reflects this historical role. The mission statement assigns the University of Louisville state-wide functions in medicine, dentistry, law and urban affairs, and it designates U of L as a research university.

## Council on Postsecondary Education Mission Statement for the University of Louisville

*The Kentucky Postsecondary Educational Improvement Act of 1997 establishes as a goal for the University of Louisville to become a premier, nationally-recognized metropolitan research university. Achieving this goal will likely require revision of the currently approved mission statement for the University as the Improvement Act is implemented. The current mission statement appears below and was approved by the Council on Postsecondary Education, July 1, 1994.*

The University of Louisville shall serve as Kentucky's urban/metropolitan university. Located in the Commonwealth's largest metropolitan area, it shall serve the specific educational, intellectual, cultural, service, and research needs of the greater Louisville region. It has a special obligation to serve the needs of a diverse population, including many ethnic minorities and placebound, part-time, nontraditional students.

**Geographic Region.** It shall serve as the principal university for instruction, research, and service programs in the Louisville metropolitan area. In addition, it shall help meet statewide educational, research, and service needs in medicine, dentistry, law, and urban affairs.

### **Institutional Admission Standards.**

The University of Louisville shall admit undergraduate students to its schools and colleges under selective admission standards that exceed the minimum guidelines established by the Council on Postsecondary Education. In addition, the university shall admit a limited number of undergraduates who shall have an opportunity to remove their academic deficiencies within a limited time according to guidelines established by the Council on Postsecondary Education. Through this approach, the university seeks to provide both broad access and programs of high quality for undergraduates. The University shall admit graduate and professional students using very selective or selective admission standards established by the various graduate and professional schools.

**Degree Levels.** At the undergraduate level, UofL shall offer selected degree programs closely related to the needs of its urban mission. At the master's level, it shall offer a range of programs

responding directly to the advanced educational needs of its metropolitan area. At the doctoral level, it shall offer a limited number of rigorous programs that do not unnecessarily duplicate other doctoral programs in Kentucky. It may offer programs at the associate level, but certificate programs shall not be offered unless they are integral to community college programs, linked to degree programs, or well justified by the human resource needs of the Louisville metropolitan area.

**Strategic Directions/Program Priorities.** The University of Louisville shall place a high priority on programs that have achieved academic excellence. The university shall build on program strength in business, dentistry, education, engineering, English, environmental studies, law, medicine, music, psychology, and urban affairs. It shall maintain national recognition in selected programs that have already attained such recognition. These strategic priorities translate into a core of liberal arts baccalaureate programs, in addition to degree program priorities at the baccalaureate [B], master's [M], education specialist [S], doctoral [D] and professional [P] levels that may include the following: – [relevant categories from the Classification of Instructional Programs by degree level are included in brackets] – business [B, M - 52]; dentistry [M, D, P - 51]; education [B, M, S, D, - 13]; engineering [B, M, S, D - 14]; English [M, D - 23]; environmental studies [M, D - 26, 40]; law [P - 22]; medicine [M, D, P - 51]; music [B, M, D - 50]; psychology [M, D - 42]; urban affairs [D - 44].

**Enhancement of Instruction.** The university shall emphasize teaching and educational services to the students admitted to its degree programs. It shall bring the intellectual excitement of research into its instructional programs whenever possible. It shall utilize technology to enhance teaching and increase productivity. It shall adopt teaching methods to serve the needs of students graduated from Kentucky's public schools, a statewide educational system that will change fundamentally as a result of the Commonwealth's educational reform efforts.

**Research and Service Functions**  
The University of Louisville shall be a research university that places special emphasis on the research and service needs of Kentucky's urban areas. Research shall be encouraged, in particular, as part of doctoral and high-priority programs. Through its research and service efforts, it shall contribute to economic development, educational reform, and problem-solving initiatives in the Commonwealth.

**Collaborative Ventures.** Emphasis shall be placed on cooperative programming with the other state universities. Careful articulation of academic programming at Jefferson Community College and the university shall be developed. The university shall collaborate with the public schools in its service area to further education reform in Kentucky. It shall develop and employ telecommunication resources to communicate with other institutions in the fulfillment of its mission. Undergraduate curriculum development shall emphasize the transfer of credits from other institutions toward degree completion.

**Efficiency and Effectiveness.** The board of trustees shall promote cost effectiveness in academic programming and institutional management. Strategic planning and budgeting shall focus on reallocation and, where appropriate, restructuring to assure the prudent use of resources in maintaining quality, relevant curricula, and responsive programming. Processes to measure and evaluate outcomes in major activities shall be undertaken to assure accountability in the University's use of scarce resources. The elimination of duplicative or unproductive programs is essential, while the development of carefully selected new programs, which are consistent with UofL's mission, shall be appropriate. The University shall strive for continuous improvement of its programs and services.

\* SOURCE: Mission Statements on the Higher Education Institutions of Kentucky Commonwealth of Kentucky Council on Postsecondary Education, July 11, 1994, pp. 18–19.

## Structure of the University

In accordance with the statutory authority of the Commonwealth of Kentucky, the Board of Trustees of the University of Louisville shall exercise final jurisdiction over the university. It shall select the President of the university; and upon recommendation of the President, it shall make all appointments to the faculty and all appointments of individuals in administrative capacities who serve at the pleasure of the Board. The Board of Trustees shall adopt a budget annually for the ensuing year and grant all degrees conferred by the university.

Administrative Officers of the University

**President**  
James R. Ramsey, Ph.D.

**Acting Executive Vice President and University Provost**  
Shirley C. Willihnganz, Ph.D.

**Executive Vice President and Chancellor for Health Sciences**  
Joel A. Kaplan, M.D.

**Senior Vice President for Research**  
Nancy C. Martin, Ph.D.

**Vice President for Finance**  
Michael J. Curtin, M.B.A., M.S.S.

**Vice President for Business Affairs**  
Larry Owsley, M.P.P., M.P.A.

**Vice President for University Advancement**  
Joseph S. Beyel, M.S.

**Vice President for Student Affairs**  
Denise D. Gifford, Ed.D.

**Vice President for Information Technology**  
Ronald L. Moore, J.D.

**Vice President for External Affairs**  
Dan Hall, J.D.

**Vice President for Athletics**  
Thomas M. Jurich, M.B.A.

For the most up-to-date organizational charts, please go to the world-wide web at  
[www.louisville.edu/president](http://www.louisville.edu/president).

## Organization of the Undergraduate Catalog

General information concerning University-wide academic policies, procedures and regulations is contained in this section of the Undergraduate Catalog. The remaining sections of the catalog focus on specific information about the academic units, degree program requirements and courses offered by the various units. Academic units are the colleges, schools and divisions of the University of Louisville.

Students needing to locate office phone numbers should consult the Student Directory available through the University's homepage on the World-Wide Web at  
<http://www.louisville.edu/>, the Faculty/Staff Directory or the University Operator at (502) 852-5555.

**Academic Unit Information**  
This section provides information on admission standards, matriculation and/or graduation requirements, and probation/dismissal policies for each undergraduate school, college or division of the University. All unit sections contain information on the individual instructional departments which comprise that academic unit, a listing of the faculty who have

appointments in those departments and a listing of the degree programs offered within each department of the unit.

**Degree Program Information**  
All university undergraduate degree programs are outlined in this section of the catalog and are presented alphabetically by the major. All degree programs in the same major department are grouped together and all minors which have the same name as the major are included in this group. For example, grouped within the major of Political Science are the Bachelor of Arts, the Bachelor of Science with a concentration in Policy Analysis, and the minor in Political Science.

In the upper right hand corner of the column for each degree program is a block of helpful registration information. This block contains the official university codes for the individual degree program. These codes are the two to four character codes for the major, the concentration, the degree and the academic unit which offers the degree.

**Course Information**  
Course information is organized alphabetically by subject area. This catalog contains information for courses numbered from 001 to 599. 600 level courses required for students in the Master of Engineering program are also included. All other courses numbered 600 and above are found in the Graduate School Catalog or the catalogs for the professional schools.

The course information contains the subject area, the course number, the course title, and, in parentheses, the number of credit hours awarded for successful completion of the course. If the course has any prerequisites or corequisites, that information is also given. Included in "Notes" is information concerning registration restrictions, course cross-listings, previous numbers, when the course is offered if it is not offered every semester, and whether the course is taught in a format other than lecture, such as courses with laboratory or clinical requirements.

Course descriptions are available on the web via [Ulink.louisville.edu](http://Ulink.louisville.edu), then select course catalog. If you have trouble logging on or are not a U of L student, go to [www.louisville.edu](http://www.louisville.edu). Select current students, online services, view course descriptions.

**Indexes and listings**  
Listings of all undergraduate programs and all undergraduate subjects and an index are included in the catalog. Consult the Table of Contents in the front or the index in the back of the catalog for page numbers.

## General Admission to the University of Louisville

The University of Louisville subscribes to a selective admission policy.

Admission for freshman applicants is based on: a) high school grades; b) ACT or SAT scores; and c) successful completion of the required pre-college curriculum.

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

The University of Louisville's minimum eligibility admission policy requires any applicant to have graduated from an accredited high school or received a high school equivalency certificate **and** completed the Pre-College Curriculum **and** have a GPA of 2.5 and have achieved **at least one** of the following:

- A. The applicant has earned a composite ACT score of not less than 20 or an SAT-I score of not less than 940 (**OR**)
- B. The applicant has completed the U of L Enhanced Pre-College Curriculum with a minimum GPA of 2.5 on a 4.0 scale. The Enhanced PCC consists of an additional two pre-college courses in Mathematics, Social Studies, or Science. These two courses may be taken in any combination within the three disciplines. The courses must be at or above the level of prescribed PCC (**OR**)
- C. The applicant ranks in the top 15% of the applicant's high school graduating class upon completing seven or eight semesters in high school

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

Students should refer to the individual academic unit sections, included in this catalog, for additional admission requirements.

Students should be cautioned about the distinction between undergraduate and graduate classifications when applying for admission to the University. For fee purposes, determination of "undergraduate" or "graduate" is based on the school or enrollment unit to which a student is admitted, and not on the level of courses taken.

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

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

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

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

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

### Applying for Admission

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

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

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

### Entering Freshman Students

**Application Deadlines:** First-time freshmen applications and credentials received after the following application deadlines will be reviewed on a space available basis:

Fall Term	March 1
Spring Term	November 1
Summer Term	April 1

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

1. Obtain an application from the University of Louisville Office of Admissions. Complete the form, and return it to the University with a \$30.00 application fee and a copy of the high school transcript.
2. Request that test scores from ACT (the American College Testing Program) or SAT (College Board) be sent to the University, if they are not posted on the high school transcript.

Students will be notified of their admissibility to the University after receipt of this information.

### Early Admissions

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

### Transfer Students

**Application Deadline:** Transfer applications received at least six weeks prior to the beginning of a term will be given priority.

Students transferring from another institution should take the following steps in seeking admission to the University:

1. Obtain an application from the University of Louisville, Office of Admissions. Complete the form and return it and a \$30.00 application fee to the University.
2. Request that the registrar of each institution previously attended forward to the University an official transcript of all work completed or in progress.  
*Failure to declare previous attendance at another institution may result in disciplinary action.*
3. Students transferring with fewer than 24 transferable semester hours are required to take the ACT or SAT test if they have not done so previously, and submit a high school transcript. Students with fewer than 24 transferable semester hours must meet the admissions requirements for both new freshmen and transfer students.

### Evaluation of Transfer Credit

A student admitted to the University from another fully accredited institution will usually be allowed credit for academic courses which apply toward graduation at the University of Louisville. In some instances, examinations covering the course being transferred may be required. A student is required to complete 30 of his/her last 36 semester hours at the University of Louisville.

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

When a transcript from an accredited institution records credit granted for "non-traditional" education experiences (such as credit by examination, experiential learning, or correspondence work), up to 24 hours of such credit will generally be accepted in transfer. No further evaluation is usually necessary, provided the student has earned 30 or more credits "in residence" at the certifying institution.

Credit will not be given for more than 24 semester hours of correspondence work, extension work, or dual high school/college credit.

If the student is transferring from an international post secondary institution, the student must submit their academic records to Educational Credentials Evaluators, Inc. (ECE), P. O. Box 92970, Milwaukee, WI 53202 or World Education Services, Inc. (WES), P.O. Box 11623, Chicago, IL 60611-0623 for a course-by-course evaluation. An application for evaluation and a brochure describing ECE's or WES's procedures, services and fees is available upon request from the Office of Admissions. It is the applicant's responsibility to submit credentials to ECE or WES and to pay all charges for the evaluation.

Once transcripts are received, a tentative evaluation of advanced credit will be issued. The final decision to award degree credit, however, is made in the academic unit in which the student intends to pursue a degree.

### Re-enrolling Students

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

## Visitors

Visiting students are those individuals who are pursuing a degree from another institution, but who plan to enroll at the University of Louisville for one semester. Visitors must submit an application and a \$30.00 application fee for **each** semester they wish to attend. A form may be obtained from the Office of Admissions. Applicants to the J. B. Speed School of Engineering must also include transcripts.

## High School Visitors

A senior student who is presently enrolled in high school and who wants to take one or more college courses prior to graduating from high school will be considered a High School Visitor. These students must submit an application, \$30.00 application fee, high school transcript, test scores (ACT, PSAT or SAT), and a letter of recommendation from their high school counselor.

Students who have not completed the first part of their junior year should contact the Office of Admissions for information concerning additional requirements for admission.

## International Student Applicants

There are essentially three areas of concern for international applicants.

They are:

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

Students who are not U.S. citizens or immigrants will need to submit an application and an admissions supplement for International Students Form. The application provides information concerning the student's academic background and educational goals. The supplement provides information about the student's financial resources.

Applications should be received by the Office of Admissions well in advance of the desired enrollment date in order to allow adequate time for processing. International student applicants should refer to the following list of application priority deadlines:

### Fall Semester—May 1

Term begins late August

### Spring Semester—November 1

Term begins early January

### Summer—April 1

Various terms begin in May, June and July

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

International students applying to undergraduate programs will need to submit official transcripts of records from all secondary schools, universities, colleges, or professional schools attended. If official transcripts are not in English, you will also need to

submit notarized English translations of your records. All post-secondary work must be submitted to Educational Credentials Evaluators, Inc. (ECE) or World Education Services, Inc. (WES) for a course-by-course evaluation. It is the applicant's responsibility to pay all charges for the evaluation. An application for evaluation and a brochure describing ECE's or WES's procedures, services and fees is available upon request from the Office of Admissions.

## Continuing Studies

Continuing Studies policies and requirements are under revision. Please contact the Continuing Studies office, 852-6706, with any questions about the application of the policies stated below.

Continuing Studies is a non-degree-granting unit that admits adult students who want to begin or return to college as part-time students. In order to be eligible to apply to Continuing Studies, students must be at least 25 years old and have a high school diploma or high school equivalency certificate issued by a state department of education.

Continuing Studies students may enroll for 6-8 hours in any semester or summer session. Students are required to maintain a 2.0 grade point average.

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

*(See the Continuing Studies section for more information.)*

## University Orientation Programs

Pre-enrollment programs to introduce new students to the University of Louisville are held before each fall and spring semester. Most programs include advising, registration, sessions on campus services and activities, and tours. Fall semester programs are held in late May and June. Separate programs are offered for new freshmen, transfers, adult students and parents of new freshmen. Spring semester programs are held in December and January.

New students for summer terms are eligible to participate in the fall programs. Invitations are mailed to students and reservations are required. Fees are charged to cover the expenses of the program.

Please note it is mandatory that new freshmen attend an orientation program. Students admitted as post-baccalaureates, visitors, readmits, or intra-university transfers are not required to attend an orientation program.

**Post-baccalaureate Admissions**  
Students who hold at least a bachelor's degree and plan to enroll for undergraduate courses, but are not pursuing a second undergraduate degree are considered to be postbaccalaureate applicants. These students need to submit an official transcript certifying at least a bachelor's degree, an application for admission and a \$30.00 application fee.

## Distance Education Courses

Distance Education provides learning that is independent of time and location. Rather than gathering in a classroom, students and instructors interact in several ways. UofL's Delphi Center for Teaching and Learning offers students an opportunity to take courses and programs at times and places that fit their busy lifestyles, without having to travel to class on a regular basis.

## Tuition and Fees

For fee purposes, determination of "undergraduate" and "graduate" status is based on the schools or enrollment unit to which a student is admitted, not on the level of courses taken.

University fees and refunds are subject to approval of the Board of Trustees and may be changed without prior notice. You may check the most current information on the web at: [www.ulink.louisville.edu](http://www.ulink.louisville.edu), **Tuition-Fees-Payment Options, Tuition**

## Distance Education

Distance Education provides learning that is independent of time and location. Rather than gathering in a classroom, students and instructors interact in several ways. Most courses with sections 50,51,52,53, and 54 are Distance Education courses. All graduate distance education courses are charged 125% of the graduate in-state tuition rate regardless of whether or not you are a full-time student. All undergraduate distance education courses are charged 125% of the undergraduate in-state tuition rate regardless of whether or not you are a full-time student.

The most current information on tuition charges will be on the web at: [www.ulink.louisville.edu](http://www.ulink.louisville.edu), **Tuition-Fees-Payment Options, Tuition**

## Degree Application Fees

Each applicant for an associate or bachelor's degree will be charged \$20.00.

Each applicant for a Master of Engineering Degree will be charged either \$40.00 (for those students graduating under the thesis option) or \$20.00 (for those students graduating under the non-thesis option).

All other applicants for master's degrees will be charged \$25.00.

Ph.D. and Ed.D. applicants will be charged \$35.00.

*If the applicant does not receive the degree, the charge will be adjusted to \$10.00. The candidate must then reapply for the degree to be granted at a later date and pay the full application fee at that time.*

All graduate distance education courses are charged 125% of the in-state tuition rate. Students are charged at the graduate rate if it is a graduate level course. There is no out-of-state tuition for distance education courses. This rate applies regardless of whether or not you are a full-time student, and is in addition to any other tuition charges the student incurs.

**Online Courses and Programs**  
UofL offers courses and complete degree programs 100% online so that students around the world can complete their bachelor's or master's degree without ever entering a classroom. Online programs at the University of Louisville are very user friendly, allowing the student to interact directly with instructors and classmates through Blackboard, the university's online delivery software. You can find information about our online programs and courses at <http://delphi.louisville.edu/distance/index.html>.

## Privilege Fees:

- Examination for extramural credit: .....1/2 regular course fee
- International Student Fee:
  - Fall/Spring .....\$50.00
  - Summer .....\$25.00
- Late Payment Fee .....\$50.00
- Reinstatement .....\$50.00
- Replacement Diploma .....\$20.00
- Transcript .....\$ 5.00

The first transcript ordered after a degree is awarded is free.

## Telecourses

Telecourses are fully accredited college-level courses brought to you by means of television. The main difference between telecourses and on-campus courses—and what makes taking telecourses so convenient—is that the majority of your classes come to you at home via KET or the Kentucky Network, or The Kentucky Metroversity Channel. In addition to the video programs, the many components that make up telecourses (including textbooks, study guides, reading assignments, and instructor interaction) allow for a complete educational experience for the student. You are only required to come to campus a few times each semester.

**Videoconference/Satellite**  
UofL offers courses via satellite or through the Kentucky Tele-Linking Network (KTLN), which utilizes digital interactive technology to transmit video and audio between two or more locations within the Commonwealth of Kentucky over terrestrial digital telecommunications channels (referred to as a T1). Conferences can be distributed among Belknap, Shelby, and Health Sciences campuses, as well as other locations within the Commonwealth using this technology.

Academic credit courses are also offered on the Shelby Campus. Located in eastern Jefferson County, Shelby Campus is also the site of the National Crime Prevention Institute and Weekend Courses.

## Residency Status

13 KAR 2:045. Determination of Residency Status for Admission and Tuition Assessment Purposes  
**Council on Postsecondary Education Administrative Regulation**

RELATES TO: KRS Chapter 13B, 164.020, 164.030, 164A.330(6)

STATUTORY AUTHORITY: KRS 164.020(8)

(University of Louisville Determination of Residency Status

**(Ref: Sections 13 and 14 of 13 KAR 2:045)**

Application for change in residency classification for purpose of tuition and fee assessment by a student enrolled in or an applicant to a program at the University of Louisville ("University") shall be made in writing to the Residency Appeals Officer for initial consideration along with such information forms as the Residency Appeals Officer may specify. Appeals of residency determinations shall be based on Administrative regulations promulgated by the Council on Postsecondary Education. A written appeal of the decision of the Residency Appeals Officer must be postmarked no later than fourteen calendar days from the date of receipt of notification of the Residency Appeals Officer's written decision.

The Residency Review Committee is appointed by the Vice President for Student Affairs and shall be composed of four faculty and/or staff members and one student. The chairperson shall be designated by the Vice President for Student Affairs. The faculty and/or staff members normally shall have staggered two-year appointments; the student member shall have a one-year appointment. The Committee shall have authority to establish procedural rules and schedule meetings. A quorum shall consist of three members, and a quorum shall be necessary for Committee action.

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

If the decision of the Committee is adverse to the applicant, the applicant may request a formal hearing by submitting a written request to the Vice President for Student Affairs. This request must be postmarked no later than fourteen calendar days from the date of receipt of notification of the Committee's written decision.

The Vice President for Student Affairs shall appoint a hearing officer from outside the University to preside over formal residency hearings. Formal hearings shall be arranged based on a timely request from the applicant. The formal hearing shall provide for due process, including notice of hearing, examination of the information on which the University decision is based, and the right of an applicant to be represented by legal counsel and to present information and testimony in support of a claim of Kentucky residency. Hearing procedures will be consistent with 13 KAR 2:045.

The hearing officer shall make a report with findings of fact and a recommendation to the Vice President for Student Affairs with a copy to the applicant. The Vice President for Student Affairs will decide the appeal on the record on behalf of the University and the Board of Trustees and will notify the applicant in writing within thirty days of receipt of the hearing officer's report. In the event the decision of the Vice President for Student Affairs is not in accord with the recommendation and findings of the hearing officer's report, a written explanation will be provided to the applicant. (effective November 27, 2000).

## Deadline for Filing Residency Appeals

An application for a review of a determination of residency status shall be filed in the Office of Student Services no later than 30 days after the first day of classes of the term for which a determination of residency status is requested. Academic calendars are available in the Schedule of Courses, the University web site, and Offices of Admission. Pursuant to 13 KAR 2:045, Determination of Residency Status for Admission and Tuition Assessment Purposes, an institution may set other deadlines for submission of other information required by the Institution in a determination of residency status.

For specific information regarding the filing of an application, please refer to the Council on Postsecondary Education document 13 KAR 2:045, Determination of Residency Status for Admission and Tuition Assessment Purposes. Copies of the policy document are available in the Office of Student Services and Offices of Admission.

Submit the completed, signed, and notarized affidavit/application and ALL accompanying documentation to:

Office of Student Services  
Houchens Building, Rm 160  
University of Louisville  
Louisville, KY 40292  
Ph (502) 852-5813/6528  
Fax 502) 852-3146

## Registration and Financial Settlement

### CONTINUING REGISTRATION -

Tuition and fees are due on, or before, the designated due date for the semester. Payment may be made by cash, check, money order, charge card (MasterCard, Visa), or financial aid credit. Payments may be made by mail, by use of the deposit box located in the front entrance of the Houchens Building, or at the Office of the Bursar.

Failure to receive a Statement of Account will not relieve the student of the responsibility for making financial settlement by the designated due date. Continuing registrations which are not financially settled by the designated due date may have their course registration cancelled and/or be assessed financial penalties. The Continuing Registration designated due dates are listed in the current Schedule of Courses and on the Bursar's web site at: [www.ulink.louisville.edu](http://www.ulink.louisville.edu), [Tuition-Fees-Payment Options, Payment Options](#)

### REGULAR REGISTRATION -

Students who register after Continuing Registration should be prepared to fully settle financial obligations by the last day to drop/add for the semester. Failure to fully settle financial obligations may result in course cancellation and/or financial penalties.

**FINANCIAL PENALTIES -** Students whose accounts are not paid by established semester deadlines may be subject to course cancellation. Students with unpaid account balances will be placed on Financial Hold by the Bursar's Office. Students placed on Financial Hold become ineligible for further registration and transcripts will not be released until the student account is paid in full. A late payment fee of \$50.00 may be assessed when student accounts are not paid by the last day to drop/add.

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

Debtors who do not make satisfactory payment arrangements on their past due accounts may have their accounts placed with a collection agency. It is the policy of the University that unpaid accounts will be assessed the costs and expenses of collection, including attorney fees.

**WITHDRAWAL POLICY -** The effective withdrawal date is the date on which the withdrawal is processed in the Student Records System. This date is used in calculating any applicable tuition reduction.

**TUITION REDUCTIONS -** When a student officially withdraws from the University or from any course, or courses, for which hourly tuition rates apply, tuition and student activity fee charges will be adjusted according to the TUITION REDUCTION SCHEDULE printed in the Schedule of Courses. The full amount of tuition/fee charges for the semester will be due unless the withdrawal occurs during the TUITION REDUCTION period. The TUITION REDUCTION SCHEDULE for each semester is available on the Bursar's web site at: [www.ulink.louisville.edu](http://www.ulink.louisville.edu), [Tuition-Fees-Payment Options, Tuition](#).

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

**FINANCIAL AID RECIPIENTS -** Determinations regarding refunds of resulting credit balances will be based on regulations governing the financial aid awarded to the student.



Federal regulations mandate that students have the right to cancel all or a portion of an EFT loan disbursement and have the loan proceeds returned to the lender. To request cancellation of all or a portion of your loan, contact the Financial Aid Office in writing. (Financial Aid Office, University of Louisville, Louisville KY 40292)

**Financial Settlement Options**  
Due dates, payment information, payment plan options, and payment plan forms for specific semesters are updated regularly on the Bursar's web site at: [www.ulink.louisville.edu](http://www.ulink.louisville.edu), **Tuition-Fees-Payment Options, Payment Options**

Any questions may be directed to the Bursar's Office (502-852-6503). You may also address your questions to the Bursar's Office by email and receive an email response ([bursar@louisville.edu](mailto:bursar@louisville.edu)).

#### Financial Aid

If financial assistance is required, applications may be obtained from the Student Financial Aid Office. The formal application period for financial assistance for the following academic year is January 1 to March 15. Applications submitted after March 15 will be evaluated subject to the availability of campus-based funds. Applications and information are available from the Student Financial Aid Office, Belknap Campus, University of Louisville, Louisville, KY 40292 or visit our website [www.financialaid.louisville.edu](http://www.financialaid.louisville.edu).

**Financial Aid Recipients**  
Determination regarding refunds of credit balances will be based on return to title IV fund regulations governing the financial aid awarded to the student.

#### Withdrawal

##### **Withdrawal Policy**

The effective withdrawal date is the date on which the Registrar's Office, or its designated representatives during evening hours and at external campus offices, receives the appropriately signed drop form, or the date the drop/withdrawal is processed through the web or touch-tone system. This date is used in calculating any refund or tuition reduction due if withdrawal deadlines are met.

The last day to withdraw for each semester is published in the Schedule of Courses, and for normal duration courses in the Fall and Spring semesters, is set in the eighth week of the semester.

A grade of "W" will be reflected on students' official transcripts for all courses officially dropped after the last day to drop/add.

Students who make a complete withdrawal from all courses for a particular semester must process this in accordance with the procedures established by their academic unit.

When a student officially withdraws (see definition of effective withdrawal date above) from the University or from any course, or courses, for which hourly rates apply, tuition will be adjusted in the following manner:

	<b>Semester Charge</b>	<b>Tuition Credit</b>
Withdrawal through the first week of semester .....	0%	100%
Withdrawal during second or third week of semester .....	50%	50%
Withdrawal during fourth week of semester .....	75%	25%
Withdrawal after fourth week of semester .....	100%	0%

Summer terms and some regular semester courses vary in length and the percentages of refunds are modified. Effective dates are printed for special terms and courses in the Schedule of Courses or are available from the Registrar's Office.

Special course fees are refundable only with 100% adjustment.

**Aid Recipients receiving all 'F' Grades**

A student receiving all 'F' grades is required to comply with the federal Title IV Refund Policy as well as the University of Louisville Satisfactory Academic Progress Policy. When federal financial aid either partially or fully pays educational expenses and the student receives all 'F' grades, the Financial Aid Office is required by federal regulation to treat the students financial aid file as an "Unofficial Withdrawal." The student can avoid this status by providing acceptable proof of attendance or participation in a class related activity beyond the midpoint of the semester. If not, then an unofficial withdrawal status is considered and the Financial Aid Office must cancel and return fifty percent of the University charges back to the Title IV programs.

#### Continuing Registration

Currently enrolled students are expected to register for the upcoming semester or term during the current semester by participating in continuing registration. During this period, students generally have a better chance of getting the courses they want at the desired time periods. The Schedule of Courses and web have instructions for advising and registering by web or touch-tone phone.

#### Open Registration

Students who do not participate in Continuing Registration may register by web or Touch-tone phone in the days immediately preceding the start of the semester. Students should consult the appropriate unit section for procedures for students wishing to register in this fashion. A late payment fee of \$50.00 may be assessed when student accounts are not financially settled by the end of the first week of classes.

#### E-Mail Notification

The registrar's office will use the e-mail system to remind students of some academic and financial deadlines as well as notification of cancelled courses. Please plan to check your campus e-mail account regularly, especially the week prior to the beginning of classes and the first several weeks of each semester.

#### Drop/Add

A student's drop/add form must be approved according to the procedure for the academic unit in which the student is enrolled. Students may consult the Schedule of Courses for detailed information concerning unit procedures for drop/add and for permission to enter closed classes. Students may drop and add by web or Touch-tone phone. If the addition of courses increases the tuition for the student, the student will be required to settle their account by the end of the first week of classes.

A grade of "W" will be reflected on students' official transcripts for all courses officially dropped after the last day of drop/add.

Students who make a complete withdrawal from all courses for a particular semester must process this in accordance with the procedures established by their academic unit.

Upon proper documentation of special circumstances, decisions for approval of late complete withdrawals may be made by the appropriate official or committee in the student's enrollment unit, who will notify the instructors involved. Late complete withdrawals are those requested after the deadline to withdraw has passed and before the instructor has assigned a grade. After a grade has been assigned, the instructional unit has the authority to change the grade to a withdrawal.

#### Metroversity Registration

Kentuckiana Metroversity Inc., is a cooperative effort of seven institutions: Bellarmine University, Indiana University Southeast, Jefferson Community Technical Colleges, Louisville Presbyterian Theological Seminary, Southern Baptist Theological Seminary, Spalding University, and the University of Louisville. A full-time student at any one of these schools enjoys the opportunity of cross-registration, double-degree programs, library privileges, innovative off-campus experiences, and extracurricular activities on the other campuses of the consortium. Full-time University of Louisville students wishing to take courses at another Metroversity school should consult their academic advisor in the unit in which they are enrolled, as well as the Registrar's Office, to ensure proper enrollment and recording of courses. Cross-registration is permitted on a space available basis at the discretion of the member institutions.

## University Financial Aid Programs

The University offers a variety of financial aid programs to help students meet their educational costs. These programs include scholarships, grants, loans and part-time employment.

These programs may be awarded in various combinations and amounts to meet individual student needs. The University-wide financial aid programs are described on the following pages. Continuing students are urged to contact their academic departments regarding other scholarship opportunities. These scholarships and awards are described in the unit sections of this catalog.

For application forms and further information concerning the programs outlined below, please contact the Student Financial Aid Office, University of Louisville, Louisville, KY 40292.

#### Satisfactory Academic Progress

All students who apply for aid from the federal financial aid programs must meet the standards of the University's Satisfactory Academic Progress Policy. This policy consists of three components: GPA, FEH, and FAYE.

GPA is a qualitative evaluation which measures whether an undergraduate student who has earned 60 hours or more has a University (not program) cumulative grade point average of 2.00 or better.

Financial Aid Earned Hours (FEH) is a quantitative measure to evaluate minimum financial aid earned hours during each term for which federal aid was disbursed. Undergraduate students who receive federal financial aid based on at least half time enrollment are expected to earn a minimum of 6 hours for each semester or 12 hours total for the academic year. Undergraduate students who receive aid based on less than half time enrollment are expected to earn the actual number of hours for which their aid was disbursed. Graduate students who receive federal aid based on at least half time enrollment are expected to earn 4.5 hours each semester or 9 hours total for the academic year.

Financial Aid Years of Eligibility (FAYE) is an index which establishes limitations on the cumulative length of time that a student may be enrolled in a degree program and receive consideration for federal financial aid awards. FAYE is a calculation based on the number of cumulative earned hours toward a degree in a student's career. For undergraduate students the limit has been set at 144 cumulative earned hours. Once students have reached the maximum FAYE, they are no longer eligible for federal financial aid at their current degree level.

Any student who loses financial aid based upon the satisfactory academic progress policy, but who feels that mitigating circumstances contributed to the lack of progress, may appeal to the Student Aid Committee. Information regarding the appeal process may be obtained in the Student Financial Aid Office or at [www.financialaid.louisville.edu](http://www.financialaid.louisville.edu).

Federal and State Programs  
To apply for the following federal and state programs, please complete either the Free Application for Federal Student Aid (FAFSA) or the Renewal Free Application for Federal Student Aid. The Student Financial Aid Office recommends that the application be completed by the priority application deadline of March 15 for the following fall semester. Since over 80 percent of all student aid awarded comes from federal and state programs, the Student Financial Office recommends that all students interested in financial aid complete either the FAFSA or the Renewal Application. The FAFSA can be obtained on-line at [www.fafsa.ed.gov](http://www.fafsa.ed.gov), from high school guidance counselors, financial aid offices, or by calling 1-800-4FED-AID (1-800-433-3243). Students currently receiving federal financial aid should receive from the Department of Education a Renewal FAFSA, which has fewer questions to answer and can be used in place of the FAFSA to apply for aid in the new academic year.

#### **Federal Pell Grant (PELL)**

The Federal Pell Grant program is designed to provide needy students pursuing a first baccalaureate degree with a "floor" of financial aid in order to help defray the costs of attending college. Eligibility for the program is determined by the federal government. For the 2004-2005 academic year the awards range from \$200 to \$4050.

#### **Kentucky State Grant Program**

The College Access Program (CAP) provides grants to needy Kentucky residents who are pursuing a first baccalaureate degree. Awards are determined by the Kentucky Higher Education Assistance Authority (KHEAA). For the 2004-2005 academic year, award amount is \$1,400 for full-time students or \$58 per credit hour for part-time students attending at least half-time.

#### **Federal Supplemental Education Opportunity Grant (SEOG)**

The FSEOG program is designed to assist students with exceptional financial need who are also Federal Pell Grant recipients. For the 2004-2005 year awards range from \$300 to \$800.

#### **Federal Work-Study Program (FWS)**

The FWS program provides campus and community service jobs to students who demonstrate financial need. These jobs currently pay \$7.00 per hour, with students usually working 15-20 hours per week or less. Awards are limited to \$3150 per academic year.

#### **Federal Perkins Loan**

The Federal Perkins Loan program provides low interest loans to students who demonstrate exceptional financial need. Eligibility requirements are established by the Student Financial Aid Office, and the University becomes the student's lender. Repayment begins 9 months after a student graduates, leaves school, or drops below half-time status. Award amounts for full-time students at U of L are determined annually. The aggregate total that an undergraduate may borrow cannot exceed \$15,000.

#### **Federal Stafford Loan Program (subsidized and unsubsidized)**

Federal Stafford Loans are low-interest loans made to students by lenders such as banks, credit unions, and savings and loan companies to help students pay for the cost of post-secondary education. Any degree-seeking student attending U of L at least half-time may borrow through this program. Students may qualify for a need-based, subsidized Stafford Loan, a non-need-based, unsubsidized Stafford Loan, or a combination of both. Need-based loans are called subsidized because the federal government pays the interest during in-school and deferment periods.

Loan amounts are determined by a student's grade level, financial need, cost of attendance and dependency classification. Dependent undergraduate students may borrow up to \$2625 for the first academic year, up to \$3500 for sophomore status, and up to \$5500 per year once junior status has been reached. Total loans for dependent undergraduates cannot exceed \$23,000. Independent undergraduates may borrow additional amounts in the unsubsidized Stafford Loan program: up to \$4000 each of the first two years; up to \$5000 per year once junior status has been reached. The total debt for an independent undergraduate student in the subsidized and unsubsidized programs combined cannot exceed \$46,000. Graduate students may borrow up to \$8,500 per year in the subsidized Stafford Loan program, and up to an additional \$10,000 per year in the unsubsidized Stafford Loan program. Graduate students may not borrow more than \$138,500 (\$65,500 in the subsidized program, and \$73,000 in unsubsidized loans). The graduate debt limit includes loans received as an undergraduate.

The interest rate for Stafford Loans is variable with a cap of 8.25%. The rate changes every July 1. Repayment of Stafford Loans begins six months after a student graduates, leaves school, or drops below half-time. Subsidized Stafford Loan borrowers will not have to pay any principal or interest during the six month "grace" period; unsubsidized Stafford Loan borrowers will be responsible for the interest during the deferment and grace periods.

All Stafford Loans at U of L are processed electronically through Kentucky Higher Education Assistance Authority (KHEAA).

#### **Parent's Loan for Undergraduate Students (PLUS)**

The Plus program is an alternative for parents of students who do not qualify for enough or any assistance from other financial aid programs. Parents with good credit histories may borrow up to the cost of a child's education minus any other financial aid that the child may receive. The interest rate is variable with a cap of 9%. Repayment usually begins 60 days after the loan is disbursed. Applications can be obtained from the Student Financial Aid Office.

## Scholarship Programs

#### **Trustees' Scholarship Programs**

These scholarships recognize various academic and extracurricular accomplishments of outstanding Kentucky high school students. Scholarships are in varying amounts. These scholarships cover tuition for eight semesters for most students, or eleven for those in five-year engineering or education programs.

For more information, contact the program coordinator, Office of Admissions, (502) 852-6531. Application deadline January 15.

#### **National Merit Semifinalists, National Merit Finalists, and National Achievement Semifinalists**

All National Merit scholars who graduate from a Kentucky high school with a minimum gpa of 3.25 on a 4.0 scale are offered a Trustee's Scholarship by the University. National Merit Finalists who have selected U of L as their first choice institution on the National Merit Scholarship application are eligible for a scholarship that includes full tuition plus the approximate cost of books, and room and board.

#### **Provost's Hallmark Award**

The Provost's Hallmark Scholarship Award requires a minimum composite ACT score of 30 or SAT combined score of 1320 and a 3.75 cumulative high school grade point average on a 4.0 scale. This scholarship offers full tuition and an additional \$3,200. Application deadline is January 15.

#### **Grawemeyer Scholarship Award**

This prestigious award was established for the fall of 2004. In addition to the scholarship funds, students will participate with a faculty mentor in a guaranteed undergraduate research project and be included in Grawemeyer events. Students must complete a scholarship application by the January 15th deadline. Kentucky residents with a minimum 32 ACT or 1410 SAT and a minimum cumulative high school GPA of 3.75 are eligible to complete for this award. A maximum of ten (10) scholars will be selected each year.

#### **Governor's Scholars**

These scholarships are available to Kentucky students who have completed the Governor's Scholars Program or the Governor's School for the Arts. All Governor's Scholars and Governor's School for the Arts participants are eligible to compete for a Trustee's Scholarship. All GSP and GSA alumni with a minimum 27 ACT or 1210 SAT and a 3.25 high school grade point average are guaranteed a full tuition, four year, renewable scholarship. All GSP and GSA alumni with a minimum 24 ACT or 1090 SAT and a 3.25 grade point average are guaranteed a \$2,000 renewable scholarship. Students must apply for admission by January 15.

#### **Eagle Scouts/Gold Scouts**

These competitive scholarships offer varying tuition awards to those Kentucky in-state residents who have outstanding academic credentials. Individuals must have achieved the rank of Eagle Scout through the Bluegrass, Shawnee Trails, Dan Beard, Tri-State or Lincoln Heritage Boy Scout councils, and includes residents of Southern Indiana in the Lincoln Heritage Council or the rank of Gold Award Scout through the Wilderness Road, Licking Valley, or Kentuckiana Girl Scout councils, and includes residents of Southern Indiana in the Kentuckiana Council. The rank of Eagle Scout or Gold Award Scout must be attained by January 15. In addition, individuals must have a minimum of 24 on the ACT and a 3.25 grade point average on a 4.0 scale to compete for this award.

#### **Woodford R. Porter, Sr. Scholarship Programs**

These scholarships are available to academically distinguished African-American high school graduates from Kentucky. Students are automatically awarded this scholarship based on academic merit. No scholarship application necessary. Awarded after admission to the University. Minimum requirements to compete for these awards are an ACT composite of 20 and a 3.0 grade point average on a 4.0 scale. Awards range from half-tuition to comprehensive awards that cover tuition, housing, board and books.

#### **Commonwealth and President's Scholarship Programs**

These two scholarship programs reward Kentucky high school seniors who have outstanding academic credentials. President's Scholarships offer full tuition for eight semesters, eleven semesters in the engineering and education programs. Recipients are required to maintain a 3.0 GPA at the university. Commonwealth Scholarships pay partial tuition for the freshman year and are not renewable. Commonwealth Scholars, however, may be able to apply for a continuing student scholarship through the Financial Aid Office (see other Scholarship Opportunities).

### **McConnell Scholarship Program for Leadership**

This privately endowed scholarship program, named after U.S. Senator Mitch McConnell, funds at least 10 four-year scholarships annually for Kentucky high school seniors who have demonstrated leadership ability. Recipients are competitively selected based on academic credentials, essays, letters of recommendation, demonstrated leadership ability, and a personal interview. McConnell scholars participate in special seminars throughout their undergraduate careers, and internships are available in federal and state government. The award is usually full tuition but may vary. Recipients must major or minor in Political Science. For more information contact the Office of Admissions.

### **Kentucky Educational Excellence Scholarship Program**

The Kentucky Educational Excellence Scholarship program enables students to earn scholarships as they progress through high school. Awards are based on high school grades and supplemental awards are based on ACT or SAT scores. An eligible student is any person who is a Kentucky resident enrolling in a Kentucky high school after July 1, 1998. Inquiries concerning this program should be directed to local high school.

### **Indiana Scholarship Program**

This scholarship program recognizes Indiana high school seniors who meet the minimum criteria of a 1090 SAT / 24 ACT score and a 3.25 GPA on a 4.0 scale. Preference is given to students residing in the reciprocal counties of Clark, Crawford, Floyd, Harrison, or Scott. The scholarships are based on merit and/or financial need and range from partial awards to full tuition, renewable scholarships. For more information, contact the Office of Admissions.

### **Other Scholarship Opportunities**

The University of Louisville offers numerous privately endowed scholarships as well as University awards funded through individual departments and deans' offices. All students are encouraged to contact these areas for application and deadline information. These programs recognize various talents and accomplishments, such as academic achievement, musical ability, and leadership potential. In addition, the Financial Aid Office offers a limited number of academic scholarships to continuing undergraduate students who have earned 24 credit hours with at least a "B" average. To be considered, students should complete the Academic Scholarships and Special Programs form by April 15. Students receiving four year scholarships, such as the Trustees' and President's, are not eligible for this scholarship program.

### **New Beginning Scholarship Fund**

This scholarship is awarded to non-traditional Kentucky residents who are pursuing an undergraduate degree at the University of Louisville and who exhibit financial need. Recipients must no longer be supported by their parents and must be returning to college after a break in their education of at least one year. New Beginning Scholarship Fund is renewable for subsequent years, provided the recipient maintains at least a 2.0 GPA and makes satisfactory progress toward a degree. Applications are available on the Financial Aid website. Application deadline is March 15.

### **Kentuckiana Regional Awards**

These awards are available to entering freshmen in the areas of Engineering and Music. Students must be enrolled full-time and be residents of the Southern Indiana counties of Clark, Crawford, Floyd, Harrison, Lawrence, Madison, Scott and Washington.

### **Campus Employment Program**

Part-time job opportunities are available on and off-campus. These jobs allow students to earn a portion of their educational expenses. To qualify, one must be registered as a University of Louisville student. Work experience requirements vary. Interested students should contact the Placement Office and review the employment opportunities listed.

### **Veteran's Educational Benefits**

Students requesting veteran's educational benefits while attending the University should first contact the Department of Veteran Affairs Regional Office, 545 S. Third St., Louisville, KY 40202, to confirm their eligibility. All eligible veterans and their dependents who have been admitted to a degree granting program within the University should contact the Veterans Administration certifying official on campus in the Registrar's Office, Room 36, Houchens Building, for more information concerning enrollment certification.

Students should be aware that the processing time for benefit checks is a minimum of five to eight weeks once the Veterans Administration receives their certification. Therefore, students must be prepared to pay for their initial tuition and textbook expenses until the benefit check arrives.

It is the student's responsibility to notify the campus certifying official of any changes in their schedule during any given semester for which they are receiving educational benefits. Failure to do so may result in an overpayment and students may be charged with a debt to the United States government.

### **Vocational Rehabilitation Assistance**

Students with a disabling condition may be eligible for assistance from the Office of Vocational Rehabilitation if additional education will provide the opportunity for appropriate employment.

Amounts vary, but funds may be used for tuition, books, fees and other services. Interested students should contact the Office of Vocational Rehabilitation, Department of Education, Frankfort, KY 40601. Applicants are required to file the Free Application for Federal Student Aid (FAFSA).

### **Tuition Waiver Program for Dependents of Deceased or Disabled Kentucky Veterans**

Dependents of a Kentucky veteran who (1) died while in the armed forces, (2) died as a result of a service-connected disability, or (3) was permanently disabled while in the service are eligible for a tuition waiver at any state-supported university, community college, or vocational training center. Eligible students should contact the Department of Military Affairs, Center for Veterans Affairs, 545 South Third Street, Room 123, Louisville, KY 40202.

### **Tuition Waiver Program for Dependents of Deceased or Disabled Kentucky Law Enforcement Officers and Firefighters**

Dependents of a Kentucky law enforcement officer or firefighter who (1) died in the line of duty, (2) died as a result of a service connected disability, or (3) was permanently disabled while on active duty are eligible for a tuition waiver at any state-supported university, community college, or vocational training center. Eligible students should contact the Student Financial Aid Office for more information.

## **Academic Facilities and Support Services**

### **University Libraries**

The University offers an extensive library system designed to support undergraduate and graduate research. The Library system consists of the Ekstrom (Main) Library, the Fine Arts Library, the Law Library, the Music Library, the Health Sciences Library, the Engineering, Physical Science, and Technology Library and the University Archives and Records Center. Total library holdings number more than 1.9 million volumes.

The libraries subscribe to 23,403 journals and to 300 electronic databases, with electronic access to most journals. In addition, the libraries hold over 2.1 million microforms.

The Interlibrary Loan units of the Ekstrom and Kornhauser libraries provide access to the collections of the Kentuckiana Metroversity member schools, the Kentucky Commonwealth Virtual Library (KYVL), and other libraries throughout the state, nation and the world for materials not owned

by the University of Louisville Libraries. The libraries' collections are accessed through the Minerva online catalog at: <http://minerva.louisville.edu/>

### **Main Library**

The William F. Ekstrom Library on Belknap Campus contains over 1 million books and subscribes to 5,280 journals. It offers an array of diverse information services and collections. Ekstrom is the largest library facility at the University and houses over half of the University Libraries' collections. The library is a depository for United States government publications and receives approximately 70% of titles available from the Government Printing Office. A superb collection of videos relating to race, gender and diversity can be found in the Media Collection on the second floor of the library. The library includes the Metrolab with 31 computer workstations, two state-of-the-art learning labs and a popular coffee bar.

Also housed in Ekstrom Library are the Photographic Archives with 1.5 million images and manuscripts, the Rare Books department containing primary research materials, literary manuscripts, early printed books, first editions and illustrated books.

For additional information see: <http://www.louisville.edu/library/ekstrom>.

### **Laura Kersey Library of Engineering, Physical Science and Technology**

147,000 volumes and over 1,400 journal subscriptions are contained in the Kersey Library collection supporting research in the fields of computer science; mathematics; chemistry; physics; and engineering. The library also hold these summarizing results from research conducted by students in the physical science and engineering departments. Many journals and course reserve items are available electronically. A 24-workstation computer lab provides access to various software programs and the Internet. For more information see: <http://www.louisville.edu/library/kersey>

### **Margaret Bridwell Art Library**

The Art Library has more than 78,000 volumes, subscribes to 334 journals and museum bulletins, media, and provides access to electronic and print indexes. The library collections support the programs of the Fine Arts Department.

The Art Library includes a rare books collection, a group study room for watching videos or viewing slides and a scanner for making color copies. Art Library books circulate only to faculty and to graduate students in the Fine Arts Department and the Expressive Therapies program. For more information see:

[www.louisville.edu/library/art](http://www.louisville.edu/library/art).

### **Kornhauser Health Sciences Library**

The Kornhauser Library, located in the downtown health sciences center, meets the information needs of the Schools of Dentistry, Medicine, Nursing, and Public Health. It serves as Regional Resource Library of the National Network of Libraries of Medicine and is a significant resource for the health sciences community of the Louisville metropolitan area and the western half of Kentucky.

Founded in 1837, the Kornhauser Library provides databases of the biomedical literature, electronic texts and journals, educational tools, and other medical information resources. The library's collection include 232,600 volumes, 5,391 journal subscriptions including electronic journals and a multimedia collection. The historical collection includes information on health care in Kentucky and the Trans-Appalachian West. Additional information can be found at: <http://www.louisville.edu/library/kornhauser>.

### **Law Library**

The library of the Louis D. Brandeis School of Law contains more than 253,000 volumes and microforms, emphasizing primary and secondary resources in United States law. Special collections include the papers and correspondence of U.S. Supreme Court Justices John Marshall Harlan and Louis D. Brandeis. The library is a selective depository for federal government documents, and a hardcopy depository for U.S. Supreme Court records and briefs.

For more information see: <http://www.louisville.edu/library/law.html>

### **Dwight Anderson Music Library**

The Music Library houses one of the largest music collections in the State of Kentucky. Founded in 1947, the library's mission has been to provide materials in support of the curriculum of the School of Music and the research of its faculty. Total holdings exceed 98,000 volumes, and 264 subscriptions. The Listening Area offers state of the art audio and video equipment, complete with compact disc players, cassette decks, and videocassette and DVD players. The sound recording collection exceeds 28,000 items.

Special collections include The Traipsin' Woman (Jean Thomas) Collection, the Isidore Philipp Archive and Memorial Library, and the Hattie Bishop Speed Collection. The collection of sheet music about Louisville is the most extensive in the region. Noteworthy are a collection of over four hundred eighteenth and early nineteenth century prints and manuscripts from the noble Ricasoli family of Tuscany and the Grawemeyer music composition collection. For more information see: <http://www.louisville.edu/library/music/>

### **University Archives and Records Center**

The University Archives is a research repository of national significance. It contains primary sources relating to the university, Louisville, and the nation. It collects, preserves, and makes available for research, historical manuscripts, oral history interviews, and other primary research materials, and thus serves as a research laboratory for humanists, social scientists and others from the area, the US and other countries. Its Urban History Collections include nineteenth and twentieth century records of area businesses, cultural organizations, social service agencies, and churches; and personal papers of politicians, scholars, members of the Jewish and AfricanAmerican communities, and women. For more information see: <http://www.louisville.edu/library/uarc/>

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### **Information Technology Services**

U of L's Information Technology unit (IT) is responsible for planning, implementation, deployment, and management of information technology services in support of the instructional, research, administrative, and service programs of the University.

### **Computing Services**

The University supports enterprise administrative and academic applications on large centralized systems. Student administration, human resources, financial, library, database, portal and other applications are supported on large Unix-based systems. The University uses Novell NetWare as the standard for print and file services in local area networks, and office automation functions (integrating E-mail and calendars) are supported by Novell GroupWise. Student E-mail uses Novell NetMail.

Two large computing user centers on the Belknap campus and one on the Health Sciences campus (along with numerous smaller facilities) are available for access to University computing resources. Public computing laboratories are located in the Miller Information Technology Center and the College of Business and Public Administration on the Belknap Campus, in the Instructional Building B on the Health Sciences campus, and in Burhans Hall on the Shelby Campus. Together, these centers provide over 200 public workstations for access to UofL information resources and the Internet. Additional public workstations in high-traffic locations provide access to E-mail.

### **Communications**

The University has extensive networking, including an 8 gigabit campus backbone network, a high-speed intercampus fiber network, campus telephone systems, cable TV, microwave, and IP video networks. A satellite uplink connects to Kentucky Educational Television (KET) Star Channels system. The University is licensed for Instructional Television Fixed Service (ITFS) and is member of KET.

The University is host to a high-speed Internet access point used to support the Internet needs of many Postsecondary institutions across the state. This access point currently supports two OC-3 (155Mbps) connections. The University is also a member of Internet2 and has connectivity through the Internet2 Project Abilene network at 155Mbps (OC-3). There are plans to upgrade these services during 2004.

The University operates a low-cost dial-up Internet service (called UofL.net Remote) for the University's faculty, staff, and students. This service has over 300 ports supporting 56Kbps service.

### **Media Services**

Six copy center (CopyIT) locations provide photocopying, high-speed duplicating, and document preparation services with a wide variety of finishing options. The CopyIT centers support preparation and distribution of instructional packets, and provide copyright clearance services.

The University has a television studio and production services which provide distance education production and support, digital video editing, video streaming and DVD authoring, TV studio and field production, and a variety of television and video related services.

The Gheens Science Hall and Rauch Planetarium serves the University, K-12 education, and the public by providing educational programs and services with an emphasis on astronomy and space sciences, and is one of eight facilities in the world to

feature the Spitz Electric Sky Video Panoramic system. A variety of programming is offered by the Planetarium including astronomy programs, laser light shows, and high definition films.

Additional information concerning Information Technology services can be found on the UofL web pages at <http://www.louisville.edu/it/>

### **Academic Support Services**

#### **Athletic Academic Services**

This office provides academic support for all students involved in the University's intercollegiate athletic programs. The academic performance of all student athletes is monitored during the semester as well as their progress toward graduation. A liaison is maintained with the faculty through close collaboration with the Committee on Academic Performance. Services offered include academic counseling, tutoring, objective based study hall programs, and referral to other university offices to ensure that student athletes are informed about career planning, job placement, and other available resources.

### **Career Development Center**

Career Services - Jobs-eRecruiting

**Take Hold of Your Future — Freshman — Senior & Alumni**  
SAC W310 502/852-6701  
<http://career.louisville.edu>

The **UofL Career Development Center** provides a comprehensive range of career and employment services and resources designed to meet the career exploration, career planning, successful career management and employment needs of (freshman — senior) students and alumni.

Students and alumni can review and begin to access the **Career Development Center's** 20+ career services, resources and **eRecruiting** at the **Career Center's** website at <http://career.louisville.edu> or visit the **Career Center** (SAC W310) The primary **Career Development Center** career services include the following:

**eRecruiting**  
**eRecruiting** is the **Career Center's** new, widely used career services system which facilitates on-line career services registration, job listings, job matches, resume referrals and interview scheduling for students, alumni and employers. All jobs posted with the **Career Center** are listed via **eRecruiting** for Student Employment, A&S Co-op, Federal Work-Study and Full-time professional positions. Click onto <http://career.louisville.edu> to review and access job listings, resume referrals and interview scheduling.

### Career Counseling/Advising Services

Individual career counseling/advising assistance, career assessments and career information are available to students and alumni on a walk-in basis or by appointment with Career Counselors. You can explore your career interests, gather career information, assess your interests, values, skills and career options to choose a career path or major.

### Career Resource Library

The Career Center's on-site career library (SAC W310) is equipped with computer stations, print and video resources to assist students and alumni with both career exploration and job search strategies. Web-based career exploration and career planning assessment tools (i.e. DISCOVER, Strong-Interest, The Career Key and more) can be accessed on-line in the Career Library or from a computer convenient for you.

### Student Employment

Assists students to locate part-time, summer, or temporary positions and full-time positions that do not require a college degree.

### Arts & Science Cooperative Education (Co-op)

A&S Co-op provides an excellent opportunity for students to gain experience relevant to their academic major or career field of interest. Through an integration of your academic course work with career-related experience, cooperative education provides an opportunity for you to test your career choices in actual work settings. This work experience will also increase your marketability.

### Career Employment Services

Career Employment Services are designed to assist with the career planning, career management, and employment needs of graduating students and alumni and recruitment needs of employers seeking candidates for entry-level, full-time professional jobs which require a college degree.

Career Employment Services assist graduating students and alumni in planning and managing a successful career, conducting a professional job search, enhancing interviewing skills and maximizing use of career services technology and internet resources in the recruitment process. Career Employment Services also provide links to recruiting employers offering full-time, professional career employment positions via **eRecruiting** at <http://career.louisville.edu> (Ideally graduating students begin to use Career Employment Services early, to thoroughly prepare for the recruitment process. Employers typically recruit the graduating class at least a semester prior to graduation, therefore graduating students are advised to begin to prepare for the recruitment process and register with the **Career Development Center** at least 2-3 semesters prior to

graduation via **eRecruiting** at <http://career.louisville.edu>.)

### Counseling Center

The Counseling Center's mission is to assist students in securing timely and appropriate responses to personal, educational, psychological and developmental concerns.

Time-limited individual counseling, group counseling, and referral services are provided at no charge.

All currently enrolled students are eligible for the Center's services. All counseling and testing are completely confidential to the limits provided by law.

The Center provides information on mental health issues through a variety of outlets including the distribution of pamphlets, on-line at our website and as a part of psycho-educational programs offered in the residence halls and across campus.

### SGA/ACCESS - Adult/Commuter SGA/Student Services

SGA/ACCESS serves as an advocate for the adult commuter student attempting to balance educational, family, and employment obligations and is open in the evenings until 7pm.

Adult/Commuter Student Services are offered in the SGA/ACCESS, 105 Davidson Hall. Special services are extended to students desiring to initiate or return to college, to complete a degree, or to take a few courses for personal interest. SGA/ACCESS also provides on-going assistance to the adult and commuter student having difficulties attending college.

It serves as a "home base" to students with a social lounge, e-mail terminals, computer lab and a quiet student lounge.

### Disability Resource Center

The Disability Resource Center coordinates services and programs for students and prospective students with disabilities. Accommodations and support services are individualized, depending on the needs of each student. Services and programs are designed to assure access for qualified students with disabilities to all programs and activities of the university. Students are strongly encouraged to make early contact with the Disability Resource Center to assure adequate time to implement support services. Please contact the Disability Resource Center at (502) 852-6938 or visit our web page at <http://www.louisville.edu/student/dev/drc>.

### Student Health and Insurance

The University of Louisville offers a major medical insurance plan to meet student health care needs. This plan is a major medical and hospitalization plan which has coverage for both inpatient and outpatient services. Similar to an HMO, the Health Services Office serves as the primary

care provider and a referral is necessary for most services rendered outside of the Student Health Services. Purchase of the Plan provides coverage for physician visits at the Health Services Office (HSO), which has two clinical locations.

Dependents of insured students are eligible for the benefits for an additional premium. Insured spouses are eligible for coverage at the Health Service Office facilities. Children under the age of 18 are not eligible for the Health Services benefit and cannot be seen in the Health Services Office.

For more information and appointments, please call the Belknap Office at (502) 852-6479 or the HSC Office at (502) 852-6446 or go to the website at

[www.louisville.edu/clinical/studenthealth/HSOHome.htm](http://www.louisville.edu/clinical/studenthealth/HSOHome.htm).

The Insurance Advocate can be reached at (502) 852-6519.

### Testing Services

This office serves as a National and University testing agency. Campus testing includes: placement exams (Math & Foreign Language); test-out exams (CLEP); Correspondence exams and CIS 100. There are over 50 national exams including the ACT, SAT, LSAT, and MCAT. Registration materials are available in Testing Services, (Davidson Hall, 310), at the information booths or through the ACCESS office. The web address is: [www.louisville.edu/student/services/testing](http://www.louisville.edu/student/services/testing)

## General Academic Information

### University Classification of Undergraduate Students

Undergraduate students are admitted to an undergraduate enrollment unit and classified as follows:

- **Full-time students:** those who are registered for 12 or more semester hours in a regular school session.
- **Part-time students:** those who are registered for fewer than 12 semester hours in a regular school session.
- **Regular students:** those who have satisfied the admissions requirements for the academic unit in which they are enrolled.
- **Special students:** those who do not satisfy the admissions requirements for the academic unit in which they are enrolled, but who are admitted by special consent.
- **Visiting students:** those regularly enrolled in other institutions who desire to register in one of the academic units of the University for one semester. Visiting students must be in good standing in their regular college or university.
- **Freshmen:** students who have fewer than 30 semester hours credit.

- **Sophomores:** students who have 30 or more, but fewer than 60 semester hours of credit.
- **Juniors:** students who have 60 or more, but fewer than 90 semester hours credit.
- **Seniors:** students who have 90 or more semester hours credit but have not received baccalaureate degrees.
- **Post-baccalaureate:** students holding baccalaureate degrees and taking further undergraduate work.
- **Auditors:** students enrolled in a class or classes on a noncredit basis.

### Undergraduate Grading System

The University awards letter grades which are translated into quality points to determine the grade point average or point standing. The University now utilizes a "+/-" grading system to help students understand more accurately their performance.

Under this system, quality points are assigned as follows:

A+	4.0
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D+	1.3
D	1.0
D-	0.7
F	0.0

"F" means Not Passing and earns neither semester hours toward graduation nor quality points; however, the number of semester hours attempted is computed into the point standing, so that "F" has a negative effect on the point standing.

Other letter grades include the following:

"W" means Withdrew and does not enter into the point standing.

"I" means Work in Course is

Incomplete and does not enter into the point standing; the grade that is awarded when the incomplete is made up, or the "F" that is given if the incomplete is not made up by the end of the next fall or spring semester, becomes part of the point standing.

"AU" means Audit and does not enter into the point standing.

"X" means the work is not finished because of the nature of the study. This grade is available only for graduate level courses.

"P" means Passing in a course taken on a pass-fail basis. A grade of "P" is given for achievement equivalent to the standards for the grades "A" through "D" in the same course. A "P" does not enter into the point standing, but earns the designated number of semester hours.

“S” and “U” mean Satisfactory and Unsatisfactory. These grades are used only for certain courses, and are not available by student option. Courses using these grades will earn semester hours, but those hours may not be counted toward the minimum number of hours required for graduation or a degree. “S” and “U” do not affect the point standing.

All missing grades change to failing grades one year after the completion of the semester in which the course was taken.

**University Grade Point Average**  
The student's grade-point average is determined by dividing the total number of quality points earned by the total number of semester hours attempted. The number of hours attempted is computed by adding the hours for all courses in which the student has earned grades.

The overall point standing takes into account all work taken at the University. Courses numbered below the 100 level (000–099) taken in the 1998 Fall Semester or after will not be used in the earned hours or University Grade Point Average calculations. However, decisions involving probation, dismissal, honors and eligibility for graduation are defined by each academic unit.

Grades and quality points earned at other institutions are not incorporated into the university grade point average. Students should review the unit sections to determine how their enrollment unit uses transfer credit grades in the calculation of the grade point average.

**Course Numbering System**  
Each course has an alphabetic subject area code and a three-digit number. Within each department these numbers are used to identify the courses.

- Freshman courses are numbered 100 to 199.
- Sophomore courses are numbered 200 to 299.
- Junior courses are numbered 300 to 399.
- Senior courses are numbered 400 to 499.
- Senior and graduate courses are numbered 500 to 599.
- Graduate courses are numbered 600 to 799.

**University Philosophy of Academic Advising for Undergraduates**  
Academic advising is a significant function in the University. The role of the advisor is to assist students in the process of acquiring the knowledge and skills necessary to be productive members of the University community. Advisors also assist students in the selection of academic programs suited to their individual abilities, interests, and career goals. The advisor further helps students by providing information and advice concerning

academic programs, policies and procedures, and campus resources on the basis of which informed decisions can be made. Ultimately, it is the responsibility of the student to know the requirements for graduation through information available in this catalog, college bulletins and other University publications.

#### Catalog Years

The catalog years for this catalog are 2004 through 2006. The requirements, rules and policies therein are generally applicable to students who enroll at the University beginning with the Fall 2004 semester through the Summer 2006 term. The University reserves the right to change programs of study, academic policies, academic requirements, fees, schedules of courses, or the announced academic calendar without prior notice.

Each academic unit has its own catalog years policy as related to degree programs. Students with continuous enrollment who transfer within the University will be expected to meet the general education requirements in effect the year they were admitted to the University. Students are responsible for knowing the catalog year policy for general education and the degree programs of the academic unit in which they intend to earn a degree.

#### Change of Address

Students requiring address changes during and between terms can make the adjustments on the address change form in the Schedule of Courses via the web through ULink at [www.ulink.louisville.edu](http://www.ulink.louisville.edu). Select “Student Personal Portfolio,” then “addresses”. Students may go directly to the Registrar's Office, Room 36, Houchens Building, and submit their new address in person. Address changes will also be accepted by calling the Registrar's Office at (502) 852-6522. Verification of student personal identification number will be required.

**Student Information System**  
The Student Administration System is the electronic system which is used to register students and record their grades. It is from this system that transcripts are produced for students completing coursework at the University beginning with the 1982 fall semester.

**Pathways to Success:**  
University of Louisville, Jefferson Community College, and Jefferson County Public Schools Partnership  
The Pathways to Success Program combines the commitments and resources of the University of Louisville, Jefferson Community College, and Jefferson County Public Schools so that all the students in the Louisville metropolitan area and the Commonwealth of Kentucky can attain a higher level of academic achievement than they have been able to heretofore.

Pathways to Success consists of two distinct partnerships with JCC and JCPS. The first is the UofL/JCC Pathways partnership at UofL. This partnership involves UofL and JCC collaboratively addressing the needs of UofL students who are admitted to UofL in good standing but who need some developmental coursework. The UofL/JCC Pathways partnership at JCC guarantees admission to UofL upon the completion of required courses and activities and provides students with academic and other support services at UofL during their stay at JCC. The UofL Pathways partnership at JCPS seeks to prepare high school students for post secondary education, as well as to give well-prepared seniors early access to college courses at either JCC or UofL. In addition, this partnership envisions active participation by JCPS, JCC and UofL in assessing progress in essential skill areas, such as writing, reading comprehension, mathematics, and science and technology in local area middle schools. Strong core content, active learning and close collaboration between faculties in order to instill in students the desire to excel academically and to develop a culture that has as its focus a commitment to life-long learning are the earmarks of this UofL/JCPS partnership.

For information about the program, contact

Dr. Prafula Sheth  
Director, Admissions and Transfers  
126 Strickler Hall East  
University of Louisville  
Louisville, KY 40292  
(502) 852-8113 or  
(502) 852-6706

or visit the website at  
[www.pathways.louisville.edu](http://www.pathways.louisville.edu)

## University-Wide General Education Competencies and Content Areas

The General Education Program at the University of Louisville fosters active learning by asking students to think critically, to communicate effectively, and to understand and appreciate cultural diversity. Specifically, students will establish foundations in the following content areas: Arts and Humanities, Mathematics, Natural Sciences, Oral Communication, Social and Behavioral Sciences, and Written Communication. Additionally, in the competency area, students will acquire an understanding of Cultural Diversity through work in the content areas.

Students must complete 12 credit hours of General Education courses within the first 30 degree-applicable credit hours earned, and these 12 hours must include the successful completion of the first three hours in

Written Communication; further, students must fulfill or begin working towards the Mathematics General Education requirement. Before completing 60 hours, the student must have completed 21 hours of General Education courses, including Oral Communication, Mathematics, and the second three hours of Written Communication.

#### Content Areas:

**Arts and Humanities** (6 hours: one course in Arts; one in Humanities)

- Arts and Humanities are concerned with understanding texts of art, music, theatre, literature, philosophy, and religious thought.

**Mathematics** (3 hours in Mathematics)

- Mathematics is concerned with solving real-world problems through mathematical methods.

**Natural Sciences** (7 hours: lecture and lab in a single discipline; an additional 3 hours in a second discipline)

- Natural Sciences are concerned with understanding the physical world through the scientific method.

**Oral Communication** (3 hours)

- Oral communication is the ability to convey ideas, emotions, and information through speech.

**Social and Behavioral Sciences**

(9 hours: one course in the Department of History; the remaining 6 hours in two other disciplines)

- Social and behavioral sciences are concerned with understanding human behavior, human interactions, human environment, and the related social structures and forms.

- History (3 credits) History is concerned with understanding change over time. Courses addressing this requirement cover a broad body of historical knowledge and compare Western and non-Western cultures.

**Written Communication** (6 hours:

the first 3 hours must be a writing course in the Department of English or be an approved Honors course substitute)

- Written communication is the ability to develop and express ideas, opinions, and information in appropriate written forms. To fulfill this requirement, students will complete a substantial amount of writing, including several texts that go through the writing process.

#### Competency Areas:

Students must take 6 hours in courses designated **Cultural Diversity (CD1 and CD2)**, at least 3 hours of which will focus on persons of African, Asian/Pacific Islander, Hispanic or Native American ancestry. **In many cases, these courses will also fulfill other Content Area requirements (e.g., a Cultural Diversity course may also count as a Social and Behavioral Science requirement).**

- **Understanding Cultural Diversity**  
Understanding cultural diversity means students will have a broad exposure to a variety of social systems, cultures, and subcultures, both within the United States and the rest of the world. This portion of the curriculum encourages an appreciation of the realities of a racially and culturally diverse world.

## General Education Program

### General Education Course Codes

Course code designations (WC, OC, M, S, SL, B, H, A, SB, CD1, CD2) appear in the course title (as an extension of the title) for the General Education courses. They indicate the general education requirement(s) that the course fulfills. Some courses are assigned more than one code if they fulfill more than one requirement.

For an explanation of the course codes, visit the Provost's web site at <http://www.louisville.edu/provost/GER/>.

### Content and Competency Courses

For a listing of General Education courses, by academic year, see General Education Course List at <http://www.louisville.edu/provost/GER/>.

Statewide General Education Block Transfer Policy  
Students who transfer between Kentucky's public institutions of higher education may qualify for a "block" rather than course by course transfer policy beginning in January, 1996. This policy has been established as a means of promoting the transfer of lower division general education requirements from one public institution to another and reducing the probability that credits may be lost or courses repeated due to transfer.

The statewide block transfer policy applies to transfer students who have completed all or part of lower division general education requirements within the following competency areas:

### Communications

- Written (6 hours)
- Oral (3 hours)

**Humanities (6 hours)** Includes courses from but not limited to the following:

- Fine Arts (excluding studio and performance courses)
- Philosophy
- Literature
- History
- Foreign Literature
- Cross-Cultural
- Inter/Multi-Disciplinary

### Behavioral/Social Sciences

**(9 hours)** Includes courses from but not limited to the following listing AND must be represented by a minimum of two disciplines and must be different from those disciplines used to meet the Humanities requirement:

- Psychology
- Sociology
- Economics
- History
- Anthropology
- Geography
- Political Science
- Cross-Cultural
- Inter/Multi-Disciplinary

**Natural Sciences (6 hours)** Includes courses from but not limited to the following disciplines:

- Biology
- Chemistry
- Physics
- Astronomy
- Geosciences

**Mathematics (3 hours)** Minimum—  
College Algebra

Students who have completed lower division general education requirements or have an AA/AS degree or 60 credit hours upon transfer may find that this policy applies to them. The student should contact the Registrar or advisors at their current institution and ask for a **General Education Audit** to be sent to the University of Louisville. This audit will provide admissions and advisors at the University of Louisville with information that may prove beneficial to the transferring student.

Students planning to transfer to another state institution following the completion of 60 hours at the University of Louisville should contact their advisor concerning the Statewide Transfer Frameworks Option. This option provides a means through which students, planning to transfer following the completion of 60 hours, may complete a specified set of general education and program specific requirements which will be transferrable to all state institutions.

Students desiring to take advantage of this option should know what degree they plan to complete and must complete the full 60 hours as specified under the framework to be eligible. The first 60 hours for many degrees offered throughout the state system are available at the University of Louisville. The University of Louisville need not offer the final degree for students to take advantage of this program.

University Residency Requirement for Awarding of Baccalaureate Degrees  
Students earning baccalaureate degrees are required to complete 30 of their last 36 semester hours at the University of Louisville. Individual academic units may have more stringent residency requirements. Students should familiarize themselves with the residency requirements of the academic unit in which they intend to pursue a degree.

Residency Requirement for Awarding of Associate Degrees  
Students earning associate degrees are required to complete a minimum of 15 of their last 18 semester hours at the University of Louisville. Some academic units may require a higher minimum for the associate degree. Students should consult the appropriate unit section for specific information.

### Confirmation of Degrees

The conferring of degrees by the University of Louisville is conditional upon timely completion of all requirements in the opinion of the Dean/Director and faculty, timely application and issuance of appropriate formal documents by the Registrar, regardless of the students' participation in Commencement or any other representations by University employees.

### Commencement Ceremonies

Commencements are scheduled for May and December. Commencement information and current schedules are available on the web site at [www.louisville.edu/commencement](http://www.louisville.edu/commencement).

All graduating students must apply for their degrees according to deadlines stated in the Schedule of Courses and graduates participating in the commencement ceremonies must order academic apparel.

## Academic Policies and Procedures

### Academic Grievance Procedure Section 1: Introduction

This procedure is designed to provide fair means of dealing with student complaints regarding a specific action or decision made by the faculty or a faculty member. "Students who believe they have been treated unfairly, discriminated against, or have had their rights abridged may initiate a grievance" (The Redbook, Section 6.8.1).

The Unit Academic Grievance Committee has the power to hear all grievances involving academic matters other than substantive grade appeals. "Academic matters are defined as those concerning instructional activities, research activities, activities closely related to either of these functions, or decisions involving instruction or affecting academic freedom" (The Redbook, Section 6.8.3). The Unit Academic Grievance Committee may review allegations that a course grade has resulted from an unfair procedure. However, the committee should not substitute its judgment on their merits as an evaluation of academic performance. Where the dean concurs that procedural irregularities have

occurred, the dean shall consult with an appropriate faculty committee as to the grade to be recorded on the student's official transcript.

To assist the student, a Student Grievance Officer is provided, who is responsible for "informing students of their rights and obligations under the grievance procedure and especially the deadlines that have been established. The Student Grievance Officer shall seek to resolve informally as many grievances as possible" (The Redbook, Section 6.8.2).

Students are encouraged to seek the assistance of the Student Grievance Officer at any stage of the grievance process.

Each unit shall establish an Academic Grievance Committee to carry out the procedures described below.

### Section 2: Preliminary Steps

To pursue a grievance concerning academic matters within the academic unit, the following steps of the grievance procedure should be observed:

1. The student should first discuss the matter with the person involved and attempt to resolve the grievance through informal discussion.
  2. If there is no resolution, the student should discuss the matter with that person's supervisor or the person to whom such person reports, who should attempt to mediate a resolution.
  3. If the student has not been able to obtain a resolution, he or she may request the Student Grievance Officer (S.G.O.) to attempt informal mediation of the problem.
  4. If the matter has not been satisfactorily resolved through the informal process, the student shall submit a written statement of the grievance to the Unit Academic Grievance Committee through the Office of the Dean.
- The statement shall contain-
- a. A brief narrative of the condition giving rise to the grievance;
  - b. designation of the parties involved; and
  - c. statement of the remedy requested.

### Section 3: Committee Action Upon receipt of the written statement, the Unit Academic Grievance Committee, or its representatives, shall:

1. Contact the student and the Student Grievance Officer to obtain assurance that all steps of the above informal process were completed and that those issues in the statement were discussed at all levels.
2. Notify the parties named in the statement of the grievance naming them; and send a copy of the statement to the named parties and to all committee members.

3. Notify the grievant and the respondent of the right to challenge committee members for cause, and request early notification of challengers to expedite the grievance procedure. Included in this notification will be a list of the names of all current, regular committee members.
4. Meet within twenty working days after receiving the written statement of any grievance and recommend to the dean of the unit whether sufficient grounds exist to accept a case for hearing. The committee shall hear the case when the dean concurs. The committee shall notify, in writing, all persons directly involved as to the reasons for its recommendation.
5. The action of the grievance committee as to whether to grant a hearing when accepted by the dean of the unit shall be final and binding on all parties except when subject to the condition of appeal.
6. If a hearing will be held, notify in writing all the parties involved, including any witnesses, of the date, time and place of the hearing at least ten days prior to the hearing date (which shall be within 30 working days of receipt of the written grievance).
7. Request in writing from all parties involved any pertinent material deemed necessary for review by the committee prior to the hearing. These materials, and any additional materials either party chooses to submit, must be submitted to the committee not later than four days prior to the hearing. Any person named in a grievance may submit a written statement to the committee outlining issues from that person's perspective.
8. Maintain confidentiality throughout the entire grievance process. All communications among the committee, the grievant(s), and the person(s) named in the statement of grievance will be confidential.

#### Section 4: Hearing Process

All hearings conducted by the Unit Academic Grievance Committee shall be conducted confidentially in the following manner:

1. The grievant(s) and the respondent(s) must be present during the information gathering portion of the hearing. Witnesses will be available and will be called when needed. The committee reserves the right to allow the presence of a secretary or a technical assistant.
2. All statements during the information-exchange phase of the hearing will be tape recorded. This record will be preserved in the University Archives for a minimum of five years and shall be confidential.
3. Any committee member may question any of the participants at the hearing.

4. The grievant will present his or her statements and/or witnesses to the committee.
5. The respondent will have the opportunity to question the grievant(s) and the witnesses about their statements.
6. The respondent will present his or her statements and/or witnesses to the committee.
7. The grievant will have the opportunity to question the respondent(s) about their statements.
8. After all information is exchanged, all persons except the committee members and the recording secretary will leave the committee room. The grievant(s), the respondent(s), and the witnesses will continue to be available to the committee should further information be needed.
9. The committee will meet in closed session to decide upon its recommendation(s) to the dean.
10. The committee shall submit its report with recommendation(s) and reasons for the recommendation(s), to the grievant(s), the respondent(s), and the dean. If the grievance directly involves the dean the report and recommendation(s) of the Unit Academic Grievance Committee shall be referred for decision to the appropriate academic vice president (now referred to as the University Provost).
11. The student's grievance will not be included as part of the student's record, unless it results in a change in student status or the student voluntarily inserts the information.
12. Until the grievance is resolved, the student may continue the natural academic progression through the academic unit subject to the requirements of Article 6.6, "Academic Review, Advancement, Probation, and Dismissal of Students," and Article 6.7, "Nonacademic Disciplinary Procedures," of The Redbook.

#### Section 5: Decision

The dean shall approve or reject the committee's recommendation(s) within 28 days after receiving it (them). If decision of the dean is not in accord with the committee's recommendation(s), the dean shall state the reasons for that decision, in writing, to all persons directly involved in the grievance and to the committee. The dean shall then take appropriate action to implement his or her decision after the time for appeal has elapsed.

#### Section 6: Rehearing

A grievance committee, within 21 days after delivery of its report, may be petitioned to reconsider its decision upon the basis of evidence of misrepresentation of materials, facts, or upon the basis of newly discovered evidence clearly not available at the original hearing.

#### Section 7: Appeal

Any party to the grievance may appeal to the University Student Grievance Committee within 21 days from the date of the final decision of the dean if the dean's decision does not concur with the recommendation of the grievance committee.

**Student Grievance Officer**  
The University of Louisville Student Grievance Officer is a tenured faculty member who is responsible for informing students of their rights and obligations under the University Student Grievance procedure.

The Grievance Officer will assist the student in efforts to achieve informal resolution in as many academic or non-academic complaints as possible.

Problems pertaining to grades, financial aid, University parking, housing, food services, registration, etc., may all be discussed with the Student Grievance Officer as a means of seeking direction for the pursuit of an informal resolution.

This service is available to all students. E-mail ([joe.steffen@louisville.edu](mailto:joe.steffen@louisville.edu)) is the preferred method of contact.

#### Code of Student Conduct

The University's Code of Conduct is the University's policy regarding non-academic discipline of students. The primary purpose for the imposition of non-academic discipline in the University setting is to protect and preserve a quality educational environment in the campus community. The Board of Trustees has the authority to modify the Student Code of Conduct. Academic discipline of students is not covered by this Code, but rather falls within the jurisdiction of the individual academic units of the University.

The Code is set forth in writing in order to give students general notice on non-academic prohibited conduct. This Code is on the web at [www.louisville.edu/student/life/code-conduct.html](http://www.louisville.edu/student/life/code-conduct.html) or contact the Student Life Office, SAC W302.

#### Code of Student Rights and Responsibilities

##### Section 1. Purpose

The Code of Student Rights and Responsibilities is set forth in writing in order to give students general notice of certain of their rights and responsibilities at the University of Louisville. Further rights and responsibilities are set forth in other University rules and policies, including the Code of Student Conduct, Residence Hall contracts, and academic unit bulletins. It is the students' responsibility to be aware of all University rules and policies; students should check with the Office for Student Life and with their academic units if they have any questions about the purposes or intent of these policies.

The University is a public educational institution for adults rather than a custodial institution. Consistent with the role of the University to educate its students and to stimulate student autonomy and independence, University regulation and supervision of student life on and off campus is limited. The University does not assume responsibility or liability for the conduct of its students; responsibility and liability for student conduct rests with the student as inherent attributes of his or her adult status, concurrently with the student's freedom of choice regarding his or her presence at the University and his or her own conduct and associations.

#### Section 2. Definitions

When used in this Code:

- A. The term "academic dishonesty" means obtaining or seeking to obtain an unfair academic advantage for oneself or for any other student; it includes lying, cheating, stealing, or engaging in otherwise dishonest conduct in the course of or related to any academic exercise.
- B. The term "academic exercise" means a test, quiz, examination, speech, presentation, paper, field or laboratory work, or any other academic activity on which a student is evaluated.
- C. The term "group" means a number of persons who are associated with each other and who have not complied with the University requirements for recognition as an organization.
- D. The term "organization" means a number of persons who are associated with each other and who have complied with the University requirements for recognition.
- E. The term "student" means any person taking courses at the University, either full time or part time, pursuing undergraduate, graduate or extension studies on a regular quarter, semester, or summer term basis.
- F. The term "student broadcast" means oral material published on a student operated radio or television station.
- G. The term "student press" means either a student publication or a student broadcast.
- H. The term "student publication" means written material published by a student organization.
- I. The term "teacher" means any person hired by the University to conduct classroom activities. In certain situations, a person may be both "student" and "teacher." Determination of the person's status in a particular situation shall be determined by the surrounding circumstances.
- J. The term "University" means the University of Louisville and, collectively, those responsible for its control and operation.



### Section 3.

#### Admission and Financial Aid

All applicants for admission and financial aid to the University shall be considered without regard for race, color, national origin, religion, sex, handicap not affecting qualification, or political beliefs.

### Section 4.

#### Classroom Rights and Responsibilities

A. A student shall be evaluated on demonstrated knowledge and academic performance, and not on the basis of personal or political beliefs or on the basis of race, color, national origin, religion, sex, age, or handicap not affecting academic performance.

B. A student has freedom of inquiry, of legitimate classroom discussion, and of free expression of his or her opinion, subject to the teacher's responsibilities to maintain order and to complete the course requirements.

C. A student is responsible for fulfilling the stated requirements of all courses in which he or she is enrolled.

D. A student has the right:

1. to be informed in reasonable detail at the first or second class meeting about the nature of the course and to expect the course to correspond generally to its description in the appropriate University catalog or bulletin;
2. to be informed in writing and in reasonable detail at the first or second class meeting of course requirements and assignments;
3. to be informed in writing and in reasonable detail at the first or second class meeting of standards and methods used in evaluating the student's academic performance;
4. to be informed in writing of any necessary changes in assignments, requirements, or methods of grading during the semester with the reasons for such changes.

E. A student has the right to confidentiality in the student/teacher relationship regarding the student's personal or political beliefs. Disclosures of a student's personal or political beliefs, expressed in writing or in private conversation, shall not be made public without explicit permission of the student.

Charges of violations of these classroom rights and responsibilities shall be handled through the appropriate academic unit level procedures.

### Section 5.

#### Academic Dishonesty

Academic dishonesty is prohibited at the University of Louisville. It is a serious offense because it diminishes the quality of scholarship, makes accurate evaluation of student progress impossible, and defrauds

those in society who must ultimately depend upon the knowledge and integrity of the institution and its students and faculty.

Academic dishonesty includes, but is not limited to, the following:

#### A. Cheating:

1. Using or attempting to use books, notes, study aids, calculators, or any other documents, devices, or information in any academic exercise without prior authorization by the teacher.
2. Copying or attempting to copy from another person's paper, report, laboratory work, computer program, or other work material in any academic exercise.
3. Procuring or using tests or examinations, or any other information regarding the content of a test or examination, before the scheduled exercise without prior authorization by the teacher.
4. Unauthorized communication during any academic exercise.
5. Discussing the contents of tests or examinations with students who have not yet taken the tests or examinations if the instructor has forbidden such discussion.
6. Sending a substitute to take one's examination, test, or quiz, or to perform one's field or laboratory work; acting as a substitute for another student at any examination, test, or quiz, or at a field or laboratory work assignment.
7. Conducting research or preparing work for another student, or allowing others to conduct one's research or prepare one's work, without prior authorization by the teacher. Except when otherwise explicitly stated by the teacher, examination questions shall become public after they have been given.

#### B. Fabrication:

- Inventing or making up data, research results, information, or procedures, such as:
1. Inventing or making up data, research results, information, or procedures.
  2. Inventing a record of any portion thereof regarding internship, clinical, or practicum experience.

#### C. Falsification:

- Altering or falsifying information, such as:
1. Changing grade reports or other academic records.
  2. Altering the record of experimental procedures, data, or results.
  3. Altering the record of or reporting false information about internship, clinical, or practicum experiences.
  4. Forging someone's signature or identification on an academic record.

5. Altering a returned examination paper in order to claim that the examination was graded erroneously.

6. Falsely citing a source of information.

#### D. Multiple Submission:

The submission of substantial portions of the same academic work, including oral reports, for credit more than once without prior authorization by the teacher involved.

#### E. Plagiarism:

Representing the words or ideas of someone else as one's own in any academic exercise, such as:

1. Submitting as one's own a paper written by another person or by a commercial "ghost writing" service,
2. Exactly reproducing someone else's words without identifying the words with quotation marks or by appropriate indentation, or without properly citing the quotation in a footnote or reference.
3. Paraphrasing or summarizing someone else's work without acknowledging the source with a footnote or reference.
4. Using facts, data, graphs, charts, or other information without acknowledging the source with a footnote or reference. Borrowed facts or information obtained in one's research or reading must be acknowledged unless they are "common knowledge". Clear examples of "common knowledge" include the names of leaders of prominent nations, basic scientific laws, and the meaning of fundamental concepts and principles in a discipline. The specific audience for which a paper is written may determine what can be viewed as "Common knowledge": for example, the facts commonly known by a group of chemists will differ radically from those known by a more general audience. Students should check with their teachers regarding what can be viewed as "common knowledge" within a specific field or assignment, but often the student will have to make the final judgment. When in doubt, footnotes or references should be used.

#### F. Complicity in Academic Dishonesty:

Helping or attempting to commit an academically dishonest act. The academic units may have additional guidelines regarding academic dishonesty. It is the student's responsibility to check with their teachers and academic units to obtain those guidelines.

### Section 6.

#### Discipline Procedures for Academic Dishonesty

Charges of academic dishonesty shall be handled through the appropriate academic unit level procedures.

An academic unit that determines that a student is guilty of academic dishonesty may impose any academic punishment on the student that it sees fit, including suspension or expulsion from the academic unit. A student has no right to appeal the final decision of an academic unit. However, a student who believes that he or she has been treated unfairly, has been discriminated against, or has had his or her rights abridged by the academic unit may file a grievance with the Unit Academic Grievance Committee, pursuant to the provisions of the Student Academic Grievance Procedure; the Unit Academic Grievance Committee may not substitute its judgment on the merits for the judgment of the academic unit.

An academic unit that suspends or expels a student from the academic unit because the student has been found guilty of academic dishonesty may recommend to the University Provost in writing that the student also be suspended or expelled from all other programs and academic units of the University. Within four weeks of receiving such a recommendation, the Provost shall issue a written decision. Neither the student nor the academic unit shall have the right to appeal the Provost's decision. However, a student who believes that he or she has been treated unfairly, has been discriminated against, or has had his or her rights abridged by the issuance of a decision by the Provost may file a grievance with the University Student Grievance Committee, pursuant to the provisions of the Student Academic Grievance Procedure; the University Student Academic Grievance Committee may not substitute its judgment on the merits for the judgment of the Provost.

### Section 7. Campus Expression

A. Students have the right of freedom of expression to the extent allowed by law.

B. Students may picket or demonstrate for a cause, subject to the following conditions:

1. The students must act in an orderly and peaceful manner.
2. The students must not in any way interfere with the proper functioning of the University.
3. Where students demonstrate in an area not traditionally used as an open public forum, the University reserves the right to make reasonable restrictions as to time, place, and manner of the student demonstrations.

C. Students may distribute written material on campus without prior approval, providing such distribution does not disrupt the operations of the University or violate University rules.

D. Students may invite to campus and hear on campus speakers of their choice on subjects of their choice; approval will not be withheld by any University official for the purpose of censorship.

### Section 8. The Student Press

- A. The student press is free to deal openly, fearlessly, and responsibly with issues of interest and importance to the academic community. There shall be no prior approval of student press content by the University.
- B. The student press is responsible for adhering to the canons of responsible journalism and for complying with the law. Student publications and broadcasts shall not publish libelous or slanderous matter, or any other content that violates the law.
- C. All student publications and broadcasts shall explicitly state that the opinions expressed are not necessarily those of the University or its student body.
- D. Students may not be disciplined by the University for their participation with the student press except for violations of University rules that are not inconsistent with the guarantees contained herein.

### Section 9. University Facilities

Appropriate University facilities shall be available to organizations within the University community for regular business meetings, for social programs, and for programs open to the public.

- A. Reasonable conditions may be imposed to regulate the timeliness of requests, to determine the appropriateness of the space assigned, to regulate time and use, and to insure proper maintenance.
- B. Preference may be given to programs designed for audiences consisting primarily of members of the University community.
- C. Allocation of space shall be made based on priority of requests and the demonstrated needs of the organization.
- D. Charges may be imposed for any unusual costs for use of facilities.
- E. Physical abuse of assigned facilities may result in reasonable limitations on future allocation of space to offending parties and will require restitution of damages.
- F. The organization requesting space must inform the University of the general purpose of any meeting open to persons other than members and the names of outside speakers.

### Section 10. Use of University Name and Insignia

No individual, group, or organization may use the University name or insignia without the express authorization of the University except to identify the University affiliation. University approval or disapproval of any policy or issue may not be stated or implied by any individual, group, or organization.

### Section 11. Campus Residence Facilities

Students have the right of privacy in campus residence facilities.

- A. Nothing in the University relationship or residence hall contract may expressly or implicitly give the institution or residence hall officials authority to consent to search of a student's room or residence by police or other law enforcement officials unless they have obtained a search warrant.
- B. The University reserves the right to enter a student's room in a residence hall or a student's apartment in a campus residence:
  - 1. in emergencies where imminent danger to life, safety, health, or property is reasonably feared;
  - 2. to make necessary repairs, improvements, or alterations in the facility;
  - 3. to provide necessary pest control services;
  - 4. to inspect the facility as deemed necessary by the University.

### Section 12. Student Records

The privacy and confidentiality of all student records shall be preserved in accordance with applicable laws. The University shall establish and adhere to a clear and definitive records policy.

### Section 13. Campus Organizations

Organizations and groups may be established within the University for any legal purpose. Affiliation with an extramural organization shall not, in itself, disqualify the University branch or chapter from University privileges. A group shall become a formally recognized organization through procedures established by the Student Government Association, upon approval of the Vice President for Student Affairs.

- A. Groups of a continuing nature must institute proceedings for formal recognition if they are to receive benefits from the University.
- B. Recognition of an organization by the University infers neither approval nor disapproval of the aims, objectives, and policies of the organization, nor liability for the actions of the organization.
- C. Membership in all University related organizations shall be open to any member of the University community who is willing to subscribe to the stated aims and meet the stated obligations of the organization, provided such aims and obligations are lawful.
- D. Membership lists are confidential and solely for the use of the organization, except that names and addresses of current organization officers shall be reported to the University as a condition of continuing University recognition.
- E. Any organization that engages in activities either on or off campus that are illegal or contrary to any University policy may have sanctions imposed against it, including withdrawal of University recognition.

### Section 14. Promulgation of University Rules Affecting Students

Rules and Policies affecting the students shall be published in Student Handbook, in the appropriate University bulletins, or in any other appropriate publication prior to their enforcement. Included in the Student Handbook are the following: Academic Grievance Procedure, Code of Student Conduct, Code of Student Rights and Responsibilities, Policy on Consumption of Alcoholic Beverages for Recognized Student Organizations, Hazing and Initiation Activities Policy, Non-academic Grievance Policy and the Sexual Harassment Policy. Copies of the Student Handbook are available from the Office of Student Life.

Student Handbook  
Other policies and information for students can be found in the Student Handbook.

### Privacy of Student Records

The University of Louisville hereby notifies students concerning the Family Educational Rights and Privacy Act of 1974. This Act, with which the institution intends to comply fully, was designed to protect the privacy of educational records, to establish the right of students to inspect and review their education records, and to provide guidelines for the correction of inaccurate or misleading information. Students also have the right to file complaints with the Family Educational Rights and Privacy Act Office, Department of Education, concerning alleged failures by the institution to comply with the Act.

The University has adopted a policy which explains in detail the procedures to be used by the University for compliance with the provisions of the Act and the regulations adopted pursuant thereto. Copies of the policy can be obtained from the University Archives and Records Center, Ekstrom Library. Questions concerning the Family Educational Rights and Privacy Act may be referred to the Director, University Archives and Records Center or visit the Website at <http://library.louisville.edu/uarc/stupriv.htm>

### Drug-Free Schools and Campuses

The Drug-Free Schools and Campuses Regulations (commonly called Part 86 of EDGAR) require that higher education institutions receiving any federal funding must notify each student and employee annually of its program to prevent the illicit use of drugs and the abuse of alcohol by students and employees.

The following is the University of Louisville's Drug-Free Schools Notice: We, at the University of Louisville, have begun programs in the past few years to combat the misuse and abuse of alcohol and other chemical substances. We realize, however, that only through a concerted effort by all, can we make any major strides in preventing substance abuse.

### Drug-Free Schools Notice

As required by the Federal Drug Free Schools and Communities Act Amendments of 1989, you are hereby notified by the University of Louisville that on University premises or at University sponsored activities, the following acts are prohibited:

- (i) distribution, possession, or use of any illegal drug or controlled substance without legal authorization;
- (ii) providing alcoholic beverages to individuals under 21 years of age, or possession of alcoholic beverages by individuals under 21 years of age; or
- (iii) illegal possession of an open container of an alcoholic beverage, public intoxication, driving while intoxicated, and drinking alcoholic beverages in an unlicensed public place.

In addition to imposition of disciplinary sanctions under University procedures including suspension or separation from the University for such acts, students or employees may face prosecution and imprisonment under Federal and Kentucky laws which make such acts felony and misdemeanor crimes.

The Code of Student Conduct lists details of offenses and disciplines for students. Staff may be disciplined under Section 1 1.1 of the Staff Handbook. Faculty may be disciplined by Deans per Redbook Sections 4.5.3 or 3.2.2 with review per 4.4 for sanctions less than dismissal or suspension for one year.

The health risks associated with the misuse and abuse of mind altering drugs, including controlled substances and alcohol, include but are not limited to: physical and psychological dependence; damage to the brain, pancreas, kidneys and lungs; high blood pressure, heart attacks, and strokes; ulcers; birth defects; a diminished immune system; and death.

The Counseling Center and Student Health Services provide assessment and referral services to University students, as well as serving as an alcohol and other drug information/education resources center. For further information, call 852-6585. Services for faculty and staff are available through the Faculty/Staff Assistance Program. For further information, call 852-6543.

## Graduate Programs and Professional Study

### The Graduate School

The Graduate School administers graduate degree programs in over 60 academic fields, including programs in education, basic medical sciences, engineering, business and arts & sciences. There are over 60 master's level programs and 27 doctoral level programs available. For more information on the Graduate School, please call the Office of Research and Graduate Programs, 852-6495.

### Professional Schools

For information on preprofessional curriculum and admissions requirements of the professional schools, students should contact the Arts and Sciences Advising Center.

The University includes four professional schools: the School of Dentistry, the Brandeis School of Law, the School of Medicine and the Kent School of Social Work. Entrance requirements for the professional schools are outlined on the next pages:

#### The School of Dentistry

The School of Dentistry offers two four year programs. They are the Doctorate of Dental Medicine and a B.S. in Dental Hygiene. For the Doctorate degree, most applicants have earned a BA or B.S. degree prior to enrollment. Applicants must have a minimum of 90 college credit hours to apply to the DMD program. It is recommended that applicants complete a minimum of 32 hours of science course work, including courses in biology, general chemistry, organic chemistry and physics.

More detailed information about admission requirements and application procedures may be obtained at the School of Dentistry website: [www.dental.louisville.edu](http://www.dental.louisville.edu) or by contacting the Office of Student Admissions, School of Dentistry, 852-5081.

#### The Louis D. Brandeis School of Law

The Brandeis School of Law offers a degree program leading to the Juris Doctor (J.D.) degree.

The program is available to both day and evening students. Students in the day program can complete their studies in three years; the evening program can be completed in four years. The School of Law also offers five double competence programs. The joint MBA/JD degree is offered in conjunction with the University's College of Business and Public Administration; the MSSW/JD is offered in cooperation with the Kent School of Social Work. The joint JD/MA in humanities is offered in conjunction with the Division of Humanities of the Graduate School.

The joint J.D./Master of Divinity is offered in collaboration with the Louisville Presbyterian Theological Seminary. The joint JD/MA in political science is offered in conjunction with the Department of Political Science.

Successful candidates for admission must have a baccalaureate degree from an accredited institution prior to enrollment. Candidates must also take the Law School Admission Test (LSAT) prior to admission. More detailed information about admission requirements and application procedures can be obtained at [www.louisville.edu/brandeislaw](http://www.louisville.edu/brandeislaw) or by calling the Office of Admissions, Brandeis School of Law, 852-6364.

The law touches many phases of life and no uniform pre-law curriculum or major is prescribed for undergraduates. A liberal arts education is emphasized as far more important than an education directed toward later professional training. Academic preparation should include courses that emphasize critical thinking, analysis, writing, and communication skills. These skills are necessary for the study of law.

Generally, students interested in pursuing a legal career may follow the major of their choice. Those most commonly chosen are Political Science, Business, English, History, and Philosophy.

Jasmine Farrier, Department of Political Science, Terry Edwards in Justice Administration and Tom Mackey, Department of History, College of Arts and Sciences, serve as Prelaw Advisors, assisting students in developing an integrated program of undergraduate studies tailored to their particular needs and interests, preparing for the Law School Admission Test, and choosing a law school suited to individual career objectives. The LSAT is normally taken in June following the Junior year or in the fall of the Senior year. Application packets are available from the Admission Office at the Brandeis School of Law and the Political Science Department.

In the course of fulfilling requirements in their major fields, pre-law students are urged to include as many of the following as possible:

- Division of Humanities, Arts and Sciences
  - English 309, Advanced Writing\*
  - Philosophy 211, Critical Thinking
  - Philosophy 311, Introduction to Logic\*
  - Philosophy 322, Contemporary Ethical Problems
  - Philosophy 323, Medical Ethics
  - Philosophy 350, Philosophy of Law

- Division of Natural Sciences, Arts and Sciences
  - Biology 263, Environmental Biology
  - Biology 364, Genetics and Man
  - Mathematics 109, Elementary Statistics
- Division of Social Sciences, Arts and Sciences
  - Communication 111, Speech Communication
  - Political Science 201, Fundamentals of American Government
  - Political Science 202, Comparative Political Systems
  - Any two of these:
    - Political Science 312, Constitutional Law\*
    - Political Science 313, Civil Liberties\*
    - Political Science 314, Judicial Process\*
    - Political Science 513, Politics of Law
  - Psychology 383, Forensic Psychology
  - History 315-316, American Constitutional History
- School of Business
  - Accounting 201-202, Fundamentals of Accounting\*
  - Economics 201-202, Principles of Economics\*

\* **NOTE:** Most highly recommended.

The School of Medicine Applicants to the first-year class of the University of Louisville School of Medicine are considered individually and are selected based on merit without consideration of race, religion, sex, age, or national origin. The Admissions Committee evaluates an applicant's acceptability based on the premedical record, scores on the Medical College Admission Test (MCAT), recommendations from Premedical Advisory Committees, established technical standards for admissions and the applicant's personality and motivation as evaluated by interviews with members of the Committee. Complete four-year college preparation is encouraged. Early decision program is encouraged for stellar applicants. Inquiries concerning admission should be addressed to:

Office of Admissions  
Abell Administration Ctr., Rm. 413  
323 East Chestnut St.  
Louisville, Kentucky 40202  
(502) 852-5193

Programs of medical education that award the degree of doctor of medicine in the United States and Canada are accredited by the Liaison Committee on Medical Education (LCME). This agency is sponsored by the Association of American Medical Colleges and the American Medical Association. The University of Louisville College of Medicine is a member of the Association of American Medical Colleges and is accredited by LCME.

**Application Process:** The University of Louisville School of Medicine participates in the American Medical College Application Service (AMCAS). Application materials are available by May and can be downloaded from the AMCAS web site or obtained from AMCAS directly:

American Medical College  
Application Service  
Association of American Medical  
Colleges  
2450 N Street, NW  
Washington, DC 20037-1126  
(202) 828-0600  
[www.aamc.org](http://www.aamc.org)

Upon receipt of the application from AMCAS the University of Louisville Medical School Office of Admissions will send additional application materials to qualified applicants. Completed secondary applications are due in the Office of Admissions by December 31. A processing fee of \$75.00 is charged and is not refundable, nor can it be credited toward tuition if the applicant is accepted. The fee may be waived, however, if the applicant has received a fee waiver from AMCAS.

**Residence Status:** Although applications from nonresidents are accepted, residents of Kentucky are given preference for admission. This policy is consistent with the mission of the University of Louisville as a state university. Residency must be established prior to making application.

Absent special circumstances, an applicant must be a citizen or permanent resident of the United States to be considered for admission to the School of Medicine. Special circumstances may be considered where the applicant has a pending application for permanent residency status in the United States and A) is married to a U.S. citizen who has an established residence in Kentucky and intends to remain in Kentucky, or B) has numerous members of his or her immediate family who have established residence in Kentucky and expect to remain in Kentucky indefinitely. All decisions as to whether special circumstances exist in a particular application for admission shall be made by the Vice President-Health Affairs or his designee."

The process of selecting medical school applicants involves a variety of considerations including academic, nonacademic, and personal characteristics. Admission to medical school requires a strong foundation in the natural sciences (biology, chemistry, mathematics, and physics), highly developed communication skills, and a solid background in the social sciences and humanities. Specific majors are not recommended, but the undergraduate major area of study should be a careful and considered decision. All applicants to medical school must take the Medical College Admission Test. MCAT applications are available via the AMCAS web site at [www.amc.org](http://www.amc.org).

Students considering making application to medical school should contact the College of Arts & Sciences Pre-Health Professional Advising Committee for more information. Faculty members from different disciplines of the University are involved in this group. Open advising sessions are scheduled during the academic year. Students are provided information about the sequencing of required and recommended courses, the admissions test and the application process and, at the time of application to medical school, may use services provided by the Advising Center in putting together their Premedical Recommendation Report.

#### PreOptometry

There is not a school of optometry in Kentucky. However, Kentucky does have contracts with the following schools to reserve spaces (a total of 14) for students who are legal residents of Kentucky: the School of Optometry at Indiana University in Bloomington; the School of Optometry at the University of Alabama in Birmingham; and Southern College of Optometry in Memphis. Admission is competitive and each school of optometry awards its contract positions to students who apply and are accepted into its program. Students admitted under the contract program will be charged reduced tuition with Kentucky paying the difference to the college for a maximum of four years.

Students who are planning to apply to schools of optometry can fulfill the preoptometry course requirements at the University of Louisville. Since schools of optometry vary somewhat in their course requirements for admission, students interested in making application should select schools to which they have an interest in applying so that they can schedule courses to meet requirements for those schools.

In general, students planning to make application to schools of optometry will need a minimum of three years of college coursework including a heavy concentration in the natural sciences (biology, chemistry, mathematics, and physics) as well as courses in social sciences and humanities. Many schools of optometry give preference to students who have completed a bachelor's degree; all schools require applicants to take the Optometry Admission Test.

Students considering making application to optometry school should contact the College of Arts and Sciences Pre-Health Professional Advising Committee for more information. Open advising sessions are scheduled during the academic year.

#### PrePharmacy

Students who are interested in making application to a school of pharmacy can complete prerequisite course requirements at the University of Louisville. Although requirements for admission to pharmacy schools are similar, they do vary. Students should select schools to which they are interested in applying and schedule courses to meet those requirements.

The University of Kentucky College of Pharmacy is the only school in Kentucky to offer a pharmacy degree. The degree program involves a four-year professional curriculum leading to the Doctor of Pharmacy degree. Pre-Pharmacy students at the University of Louisville should consult the UK College of Pharmacy website for the undergraduate courses required for admission to this program. A transfer equivalencies chart is provided for the different colleges/universities in the state.

Admission to pharmacy schools is competitive. Students will need two to three years of college coursework with a heavy concentration in the natural sciences in order to meet minimum prerequisites. Those holding bachelor's degrees or completing bachelor's degrees in biology and chemistry are particularly encouraged to apply. All applicants must take the Pharmacy College Admission Test.

Students considering making application to pharmacy school should contact the College of Arts and Sciences Pre-Health Professional Advising Committee for more information. Faculty members from different disciplines of the university are involved in this group. Open advising sessions are scheduled during the academic year.

#### PreVeterinary Medicine

There is not a school of veterinary medicine in Kentucky. However, Kentucky does have contracts with the following schools in Alabama to reserve spaces for students who are legal residents of Kentucky: Auburn University College of Veterinary Medicine (34 spaces) and Tuskegee University School of Veterinary Medicine (2 spaces).

Admission in competitive with selection made by the respective schools. Students admitted to either the Auburn or Tuskegee program will be charged instate tuition, with Kentucky making a payment for each enrolling student for up to four years.

Students planning to apply to schools of veterinary medicine can fulfill preveterinary course requirements at the University of Louisville. Since schools may vary somewhat in their requirements, students interested in making application should select schools to which they have an interest in applying so they can schedule courses to meet requirements for those schools. The University has an approved preveterinary curriculum for Auburn consisting of approximately three to three and a half years of college coursework with a heavy concentration in the natural sciences. In the event the student is not admitted to professional school, the fourth year may be spent in completing requirements for a bachelor's degree with biology or chemistry obvious choices. The Graduate Record Exam is required for all Auburn applicants; the Veterinary Admission Test is required for Tuskegee applicants.

Students interested in making application to schools of veterinary medicine should contact the College of Arts and Sciences Pre-Health Professional Advising Committee for more information. Open advising sessions are scheduled during the academic year.

**The Kent School of Social Work**  
The applicant must be a graduate of an accredited four-year college with a broad background in the liberal arts. A cumulative "B" average is preferred. The student's intellectual, emotional, and physical capacity to perform graduate work will determine admission.

The admissions process includes the preparation of an application form, an autobiographical statement, submission of two certified copies of transcripts of all college work completed, and three letters of reference. There is a non-refundable application fee of twenty-five dollars.

#### American with Disabilities Act

##### **ADA Policy Statement University of Louisville**

The University of Louisville is committed to providing equal opportunity for persons with disabilities in full compliance with the Americans with Disabilities Act of 1990 (ADA), and Section 504 of the Rehabilitation Act of 1973 (504). The University's 504/ADA Coordinator is responsible for all campus activities relevant to Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990. The University Affirmative Action Officer will monitor compliance and assist all unit heads in meeting their equal opportunity obligations. The University Disability Resource Center staff will assist the university community in fulfilling its responsibility by serving as an information resource center and coordinating support services for students with disabilities.

##### **ADA and 504 Grievance Procedures University of Louisville**

The following grievance procedure is being recommended to provide prompt and equitable resolution of complaints concerning ADA and Section 504 of the Rehabilitation Act of 1973.

The University of Louisville ADA Grievance Procedure is an internal grievance procedure providing for prompt and equitable resolution of complaints alleging any action prohibited by the U.S. Department of Justice regulations implementing Title II of the Americans with Disabilities Act. Title II states, in part, that "no otherwise qualified individual with a disability shall, solely by reason of such disability, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination" in programs or activities sponsored by an agency.

General information regarding ADA or 504 can be addressed to:

Director  
Disability Resource Center  
Robbins Hall Room 101,  
852-6938

Complaints should be addressed to the person who has been designated to coordinate ADA compliance efforts:

Director  
Affirmative Action Office  
Personnel Services Building,  
852-6538

# College of Arts and Sciences

## Introduction and History

A college of arts and sciences is central to the fulfillment of the purposes of higher education. Undergraduate study in a liberal arts college is designed to develop the whole person through the free inquiry that trains the mind for critical analysis and aesthetic appreciation. A liberal education begins with introductory studies in the natural sciences, social sciences, and humanities; its end is the development of the intellect to its full potential. Liberal education is a life-long endeavor, and the goal of a college of arts and sciences is to ensure that the opportunities exist for a substantial beginning to this process.

The College of Arts and Sciences of the University of Louisville is founded on these traditional principles, interwoven with the special role of an urban university. As the college which offers the most comprehensive undergraduate programs and selected graduate programs, the College of Arts and Sciences has an integral role in the fulfillment of the University mission by integrating urban-related courses within the foundation of a liberal education.

The theoretical and practical knowledge in the College's baccalaureate programs is generally regarded as excellent preparation for many careers that do not require professional or advanced degrees and is the academic foundation for most students who enter master's and doctoral graduate programs. The College provides the liberal arts academic base for students who later attend the professional schools. In addition to the undergraduate curriculum, most departments in the College offer programs leading to the master's degree and seven departments offer doctoral degrees.

A university is expected to advance the theories and application of knowledge. This expectation is fulfilled primarily by the creative research of its faculty. This creativity is related directly to the role of teacher, for it ensures that the College's students learn from enthusiastic and excellent faculty members who advocate the principle of lifelong inquiry.

The College's allegiance to the traditions of a liberal education does not end with the preservation of its history or its traditional programs. The vitality of the College is found in its continuing reexamination of itself, and in its willingness to change when change would further the welfare of its students, its faculty, and its community.

The following persons have served as deans of the College:

- John L. Patterson, 1908-1922
- Warwick M. Anderson, 1923-1928
- S. M. Whinery, 1928-1929
- E. B. Fowler (Acting Dean), 1929-1930
- J. J. Oppenheimer, 1930-1957
- Guy Stevenson (Acting Dean), 1957-1959
- Richard L. Barber, 1959-1972
- Martin R. Baron (Acting Dean), 1972-1973
- Thomas H. Crawford (Acting Dean), 1973-1974
- Arthur J. Slavin, 1974-1977
- William G. Bos (Acting Dean), 1977-1978
- Lois S. Cronholm, 1979-1985 (Acting Dean, 1978-1979)
- Joseph C. Deck (Acting Dean), 1985-1987
- Victor A. Olorunsola, 1987-1990
- Thomas J. Hynes, Jr. (Interim Dean), 1990-1996
- David A. Howarth (Acting Dean), 1996-1997
- Randy Moore, 1997-1999
- Shirley C. Willihnganz, 1999-2000
- James F. Brennan, 2000-2004
- J. Blaine Hudson (Acting Dean), 2004-

## Structure of the College

The College of Arts and Sciences has a Division of Humanities, a Division of Natural Sciences, and a Division of Social Sciences. These Divisions represent the disciplines which collectively make up the liberal arts and sciences. Each Division contains departments which offer programs in specific disciplines. In addition to these departments the College has a number of interdisciplinary programs which involve faculty and course work from several disciplines. Most departments, and some programs, offer curricula leading to baccalaureate degrees. Most of the departments also offer the master's degree, and the Departments of Biology, Chemistry, English, Fine Arts, Mathematics, and Psychology offer the Ph.D. The Department of Theatre Arts offers an M.F.A.

These are the departments of the College:

- I. The Division of Humanities includes the Departments of:**
- English
  - Classical and Modern Languages
  - Fine Arts
  - Philosophy
  - Theatre Arts

**II. The Division of Natural Sciences includes the Departments of:**

- Aerospace Science
- Biology
- Chemistry
- Mathematics
- Military Science
- Physics

**III. The Division of Social Sciences includes the Departments of:**

- Anthropology
- Communication
- Geography and Geosciences
- History
- Justice Administration
- Pan-African Studies
- Political Science
- Psychology
- Sociology
- Women's and Gender Studies

## Degrees and Programs Offered by the College of Arts and Sciences

Bachelor of Arts with Majors in:

- Anthropology
- Art
- Art History
- Biology
- Chemistry
- Communication
- Economics
- English
- French
- History
- Humanities
- Liberal Studies
- Mathematics
- Pan-African Studies
- Philosophy
- Physics
- Political Science
- Psychology
- Sociology
- Spanish
- Women's and Gender Studies

Bachelor of Science with Majors In:

- Biology
- Chemistry
- Communication
- Geography
- Justice Administration
- Mathematics
- Pan-African Studies
- Physics
- Political Science
- Psychology
- Science-Dentistry\*
- Science-Dental Hygiene\*
- Sociology
- Theatre Arts
- Women's and Gender Studies

\*These degrees require three years' work in the College of Arts and Sciences and one or more years in an accredited school of dentistry.

Bachelor of Fine Arts with Major In:  
Art

Associate in Arts with Major in:  
Paralegal Studies

Combined Degrees

The College of Arts and Sciences grants the Science-Dental Hygiene degree and the Science-Dentistry degree to students who complete the preprofessional and professional program. The curricula are shown in the Degree Programs section of this catalog.

Graduate Degree Programs

Most departments in the College of Arts and Sciences offer course work leading to the master's degree, and the Departments of Biology, Chemistry, English, Fine Arts, Humanities, Mathematics, and Psychology offer doctoral programs. The Department of Theatre Arts offers the M.F.A. in Theatre Arts. Graduate students in those programs are taught by the faculty of the College of Arts and Sciences who are also members of the Graduate School faculty. The combination of undergraduate and graduate work in most of the College's departments enriches the intellectual environment for undergraduate and graduate students. Graduate degrees are conferred by the faculty of the Graduate School. Interested students are referred to the Catalog of the Graduate School for a complete listing of graduate programs offered through Arts and Sciences departments and for admission and degree requirements for graduate programs. Students should contact the chair of the Arts and Sciences department in the selected field for specific departmental requirements.

Students who, at the beginning of any term, are within 6 semester hours of receiving the baccalaureate degree may register for graduate-level courses in addition to the courses required for obtaining the baccalaureate degree, provided they have the approval of the major department and of the Dean of the College of Arts and Sciences and the Dean of the Graduate School.

### Mailing Address

Gardiner Hall  
University of Louisville  
Louisville, KY 40292

### Telephone Numbers

**Office of the Dean**  
(502) 852-6490

**Advising Center**  
(502) 852-5502

## Accelerated Master's Degree Program

Some Departments within the College of Arts and Sciences offer accelerated master's degree programs. This special opportunity for well-prepared students offers the advantage of an early start in graduate work. The following rules apply to all accelerated master's degree programs. The departments may further specify their programs.

### Admission to the program

Students must apply for admission to an accelerated master's program no later than the end of their junior year. Students must have a minimum of 3.35 GPA and must complete the GRE and any additional departmental requirements for admission to the graduate program.

### Degree Requirements

Students pursuing an accelerated master's degree may take a maximum of nine hours in course work that both meets the undergraduate degree requirements and can count toward the hours required for the master's degree. Students in an accelerated master's program may apply for graduation with a baccalaureate degree after completing the course work requirements for admission into the master's program and additionally completing the first nine hours of graduate work.

## Non-degree Programs and Minors

In addition to programs leading to degrees, the College offers areas of concentrated course work through non-degree interdisciplinary programs and through minors. The course work offered through such non-degree interdisciplinary programs as Religious Studies and Latin American Studies permits students to develop insights into relationships among various disciplines. While the curriculum of a non-degree interdisciplinary program does not lead to a degree in that program, the courses are applicable to degree requirements and electives. The curriculum for a minor is designed to provide an area of concentration in addition to the concentration associated with the major degree program. Minors may be established by degree-granting or non-degree-granting units of the College. See the appropriate program section for available minors.

## Administrative Officers of the College of Arts and Sciences

### Acting Dean

J. Blaine Hudson, Ed.D.

### Associate Dean

Julia C. Dietrich, Ph.D.

### Associate Dean

John P. Ferré, Ph.D.

### Associate Dean

Inessa Levi, Ph.D.

## Assistant Dean for Student Support

Tomarra Adams, M.S.W.

## Assistant Dean and Director of Advising Center

James R. Carter, Ph.D.

## Assistant Dean

Roselle Taylor, Ph.D.

## Admission and Procedures of the College of Arts and Sciences

### Matriculation

Students are admitted to the College of Arts and Sciences on either a matriculated or non-matriculated basis. High school visitors, visiting students from other institutions, auditors, post-baccalaureate students, and students admitted as special students are considered non-matriculated. All other students are considered matriculated.

Students planning to earn degrees from the College of Arts and Sciences must be matriculated in order for the credits they have earned to apply toward their degrees.

Students admitted on a non-matriculated basis will be notified by the Office of Admissions of their status and of the conditions of their enrollment at the time they are accepted.

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

Students admitted on a matriculated basis remain matriculated until they graduate, transfer to another college, or are dismissed.

### Entering Arts and Sciences Freshmen Students

Admission for a normal course load is granted to students meeting the following requirements:

1. Graduation from an accredited high school with a grade point average of 2.5 or better, or successful completion of the General Education Development (GED) tests.
2. Completion of the Pre-College Curriculum (State of Kentucky) (see "Minimum Admission Standards for Public Universities in Kentucky/Pre-College Curriculum" in the General Information section of this catalog.)
3. A composite ACT score at or above the national mean.

Persons with deficiencies in the above areas may be eligible for admission under certain conditions.

1. Exceptionally gifted students who have completed three years of high school may be admitted by action of the Admissions and Appeals Committee, provided recommendations from high school counselors and teachers, previous academic records, test scores, and personal interviews indicate the ability to succeed in college level work.
2. Students with pre-college curriculum deficiencies are, in general, not admissible if they lack two courses in one area or three courses overall. Exceptions are made if the student has a score of 22 (enhanced) or better on the appropriate ACT subtest. Other exceptions must be approved by the College Admissions and Appeals Committee. Students admitted by action of the College Admissions and Appeals Committee will be required to enroll in courses to remove pre-college curriculum deficiencies. All deficiencies must be removed by the time the student completes twenty-four (24) semester hours of degree credit. Deficiencies may be removed by successfully completing courses outlined in the Pre-College Curriculum section of this catalog.
3. Students who have a high school grade point average between 2.25-2.49 may be admitted if the composite ACT score is 23 or above.
4. Students who have a composite ACT score of 18-19 may be admitted if the high school grade point average is 3.0-3.25 or above. (Students in this category who have a composite score of 18 on the ACT will be required to take the University placement test in reading and to register for a college reading or college study strategies course as indicated by the placement test results.)
5. Students who graduated from an unaccredited high school may be admitted upon satisfactory completion of such examinations as the College faculty may require. For further information consult the Admissions Office.

### Conditional Admission

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

1. Students admitted in conditional status, regardless of ACT subtest score or high school coursework, must complete UofL placement examinations in Reading before they can be advised and register for their first semester.

2. Students admitted in conditional status must register for required developmental courses immediately following matriculation and must continue to do so until all deficiencies have been removed.
3. Students admitted in conditional status may register for a maximum of 14 credit hours of coursework in their first semester and 13 credit hours of coursework each semester thereafter until removed from conditional status. Not all courses are suitable for conditionally admitted students and enrollment restrictions exist. Students should consult their academic advisor regarding courses for which they are eligible to enroll.
4. Students admitted in conditional status must be advised prior to registration each semester until removed from conditional status.

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

1. Successful completion of GEN 101: A & S Orientation.
2. Successful completion of any required developmental courses.
3. A grade point average of 2.0 or better on all college level courses.

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

### High School Visitors

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

### Transfer Students

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

### Admission in good standing requires:

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

Transfer students with fewer than twenty-four (24) acceptable credits must submit high school transcripts and ACT scores, and must meet the requirements for freshmen.

### Admission in Special Status

Transfer students not meeting the above criteria may be admitted only in Special Status by action of the Admissions and Appeals Committee. Such students are subject to the following guidelines

- Remain in special status with limited load as specified by the Admissions and Appeals Committee for a minimum of 24 semester hours.
- Maintain a minimum 2.0 semester grade point average for the first 24 semester hours attempted in courses applicable to an Arts and Sciences degree.
- Removed from special status after 24 semester hours if the cumulative grade point average is 2.0 or above.
- Dismissed if the semester grade point average is lower than 2.0 at the end of any semester.

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

### Additional Transfer Requirements

1. To be eligible for a degree from the College of Arts and Sciences, students transferring from a four-year institution must complete at least 30 hours of work applicable to the degree as a student enrolled in the College, including 30 of the final 36 hours and a minimum of 6 credits in the declared major. Students transferring course work from a two-year college are cautioned that a maximum of 60 semester hours of credit from a two-year college may be applied toward the minimum hours required for a baccalaureate degree. The remaining semester hours of the minimum 121 hours required for the

baccalaureate degree must be completed at a four-year institution. If a student has earned more than 60 semester hours at a two-year institution, the additional work may, if equivalent, be applied toward lower level general education, foreign language, college programmatic, or major requirements.

2. Students must complete at least fifty hours of course work numbered 300 or higher. Work from a two-year or community college usually will not apply to this requirement. For this reason, students planning to transfer to this College from a community college or two-year college are advised to complete the lower level portion of the College's general education requirements and, if required, the foreign language series prior to transferring. Students who have transferred to the College should meet with an academic counselor of the Arts and Sciences Advising Center for assistance in evaluating their records for transfer credit.

### Transfer Credit Policies

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

Work graded "Pass" will not count toward fulfillment of general education requirements, the language requirement, or requirements specified in the student's major program.

Credits granted on the basis of examination and posted on an official transcript from a fully accredited institution must be accompanied by a minimum of 24 additional degree applicable semester hours (or the equivalent) completed at that institution.

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

The College will accept no more than 24 semester hours toward the 121 hours required for a degree which is completed by correspondence and/or extension work (which includes college

credits earned as a high school visitor at another institution). Work taken beyond the 24 hours may, however, be applied toward general education, foreign language, divisional, out-of-division, or major requirements.

Transfer students who wish to major in creative art will be required to submit portfolios before they can take 300 level creative art classes. (Consult the Department of Fine Arts.)

### Foreign Students

Foreign students who have a secondary school record sufficient to predict college success and who demonstrate proficiency in the English language will be admitted to the College of Arts and Sciences. Beginning applicants and transfer applicants who have completed less than one full academic year of post-secondary credit (fewer than 24 semester hours of acceptable transfer credit) must submit test scores from the American College Testing (ACT) program. Refer to the General Information section of this catalog for more information.

### Auditors

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

### Awarding of Credit through Placement Examinations

#### Advanced Placement Examinations of The College Board

In accord with Senate Bill 74, the University of Louisville awards credit for scores of 3 on all Advanced Placement Examinations of the College Board. A higher score may be required to receive credit for specific courses within certain disciplines. Those scores and course equivalencies are listed below. Elective credit will be awarded for Advanced Placement Examinations not listed here or for scores of 3 when a higher score is required for specific course credit. Scores should be submitted to the Office of Admissions as soon as they are available.

#### Art and Art History

Three hours credit awarded for scores of 4 or 5 on the Studio Art "2-D Design" portfolio. May be used in place of Art 105

Three hours credit awarded for scores of 4 or 5 on the Studio Art "3-D Design" portfolio. May be used in place of Art 106.

Three hours credit awarded for scores of 4 or 5 on the Studio Art "Drawing Portfolio" may be used in place of Art 115: Foundation Drawing I.

Three hours credit awarded for scores of 4 or 5 on "History of Art." May be used in place of Art History 250: Ancient to Medieval Art

#### Biology

Three hours credit awarded for scores of 3, 4, or 5. May be used in place of Biology 102, Introduction to Biological Systems.

#### Chemistry

Three hours credit awarded for scores of 3. May be used in place of Chemistry 201, General Chemistry I. Six hours credit awarded for a score of 4 or 5. May be used in place of Chemistry 201 and 202, General Chemistry I and II.

#### English

Three hours credit for a score of 3 on the examinations for either "Literature and Composition" or "Language and Composition." May be used in place of English 101, Introduction to College Writing. Six hours credit for a score of 4 or higher. May be used in place of English 101-102, College Writing.

#### History

Three hours credit awarded for scores of 3, 4, or 5 in European history. May be used in place of History 102, History of Civilizations II.

Six hours credit awarded for scores of 3, 4, or 5 in American history. May be used in place of History 211-212, American History I and II.

#### Mathematics

Three hours credit awarded for scores of 3 or above on the examination in Statistics. May be used in place of Mathematics 109, Elementary Statistics.

Three hours credit awarded for a score of 3 on the Calculus AB examination. May be used in place of Mathematics 180, Elements of Calculus I.

Four hours credit awarded for scores of 4 or 5 on the Calculus AB examination. May be used in place of Mathematics 205, Calculus I.

Eight hours credit awarded for scores of 4 or 5 on Calculus BC examinations. May be used in place of Mathematics 205-206, Calculus I and II.

#### Modern Languages and Latin

Six hours credit for scores of 3, 4, or 5 in French, German, Latin or Spanish. May be used in place of the courses indicated below:

— French Language: French 320 and 322

— French Literature: French 313 and 455

— German: German 321 and 322

— Latin: Latin 301 and 302

— Spanish Language: Spanish 201 and 202

— Spanish Literature: Spanish 313 and 355

### **Physics**

Eight hours credit awarded for scores of 3, 4, or 5 on the Physics B examination. May be used in place of Physics 221-222, 223-224, Fundamentals of Physics.

Five hours credit awarded for scores of 3, 4, or 5 on the Physics C-MECH examination. May be used in place of Physics 295: Introductory Laboratory I and Physics 298: Introductory Mechanics, Heat, and Sound.

Five hours credit awarded for scores of 3, 4, or 5 on the Physics C-E&M examination. May be used in place of Physics 296: Introductory Laboratory II and Physics 299: Introductory Electricity, Magnetism and Light.

### **Political Science**

Three hours credit for scores of 3, 4, or 5 on the examination in Political Science. May be used for elective credit in Political Science.

### **Psychology**

Three hours of credit awarded for scores of 3 or higher on the Psychology examination. May be used in place of Psychology 201.

College Level Examination Program of The College Board  
The College awards credit on the basis of the College Level Examination Program (CLEP) administered by The College Board. CLEP examinations may be taken at any national test center, including the University of Louisville Testing Service, and testing centers at most colleges and universities during the third week of each month. Prior arrangements with the testing center must be made, and there is a fee for the general examination and for each subject examination.

A CLEP Bulletin of Information for candidates may be obtained from most testing centers, or by writing the following address: CLEP, Box 1821, Princeton, New Jersey 08540. Scores obtained should be sent to the Office of Admissions.

Areas of study, the amount of credit allowed, and minimum scores are given below. Credit earned through CLEP does not count as credit earned in residence at the University of Louisville.

### **Biology**

Three hours credit in biology awarded for score of 50 or higher on the CLEP Subject Examination in General Biology. May be used in place of Biology 102, Introduction to the Biological Sciences.

### **Chemistry**

Six hours credit allowed for score of 50 or higher on the CLEP Subject Examination in General Chemistry. May be used in place of Chemistry 201 and 202, General Chemistry I and II.

### **English**

CLEP Examination in English  
Composition is not accepted. Consult the Department for placement with credit options (fee required).

### **History**

Three hours credit awarded for a score of 54 or higher or on the subject examination in History of the U.S. I, to be used in place of History 211.

Three hours credit awarded for a score of 55 or higher or on the subject examination in History of the U.S. II, to be used in place of History 212.

Three hours credit awarded for a score of 57 or higher or on the subject examination in Western Civilization I, to be used in place of History 101.

Three hours credit awarded for a score of 56 or higher or on the subject examination in Western Civilization II, to be used in place of History 102.

### **Mathematics**

Three hours credit awarded for score of 50 or higher on CLEP Subject Examination in College Algebra. May be used in place of Mathematics 111, College Algebra.

Four hours credit awarded for score of 50 or higher on CLEP Subject Examination in College Algebra-Trigonometry. May be used in place of Mathematics 190, Pre-Calculus.

Four hours credit awarded for score of 50 or higher on CLEP Subject Examination in Calculus. May be used in place of Mathematics 205, Calculus I.

### **Modern Languages**

Twelve hours credit awarded for a score of 50 or higher on CLEP subject examination in French, German or Spanish. May be used in place of the following:

- French 121, 122, 221
- German 121, 122, 221
- Spanish 121, 122, 123

### **Psychology**

Three hours credit awarded for a score of 55 or higher on the CLEP Subject Examination in Introductory Psychology. May be used in place of Psychology 201, Introduction to Psychology.

### **Sociology**

Three hours credit awarded for a score of 50 or higher on the CLEP Subject Examination in Introductory Sociology. May be used in place of Sociology 209, Principles and Concepts of Sociology.

International Baccalaureate  
The College awards academic credit to entering freshmen who have completed the International Baccalaureate (IB) Program. Credit will be awarded for certain IB Higher Level examinations completed with a score of 5 or higher, up to a maximum of 24 semester hours.

**Anthropology:** 3 hours credit awarded for examination on "Social Anthropology." May be used in place of Anthropology 201.

**Biology:** 3 hours credit awarded. May be used in place of Biology 102.

**English:** Six hours credit awarded. May be used in place of English 101 and 102.

**Geography:** 3 hours credit awarded for examination on "Individuals and Societies." May be used as elective credit in Geography.

**History:** 3 hours credit awarded. May be used in place of History 102.

**Mathematics:** 4 hours credit awarded. May be used in place of Mathematics 205.

**Modern Languages:** May be used in place of the intermediate level of the foreign language (French 221 or Spanish 123). 12 hours credit will be awarded only after successful completion of the subsequent course in the language sequence (French 320 or Spanish 201).

Credit for IB examinations in other subject areas requires consultation with the appropriate department.

Foreign Language Advanced Standing

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

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

When a student places into a course higher than 121, credit toward graduation will be awarded for those elementary or intermediate courses by-passed only if the student completes successfully the language class into which she/he is placed. A student placing in the 300 level will receive 12 hours of PASS for 121, 122, 123, or 221 (depending on the language) upon successful completion of a 300-level class in the language. (Eighteen hours of credit by placement are available in Spanish for students who test into 321, 322, or 355.) Any credit earned by placement testing will be posted on the student's record only after completion of a regular semester of full-time study (or 12 semester hours) at the University of Louisville. Students are strongly encouraged not to enroll for credit in a course they have successfully by-passed through examination.

A student who has earned college credit for work done in high school may choose whether to use that credit OR the credit earned through the placement examination program described above.

These regulations also apply to Metroversity students.

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

*(For information about placement examinations in American Sign Language, contact the coordinator of the Interpreter Training Program, 300 Robbins Hall, (502) 852-4607.)*

Awarding of Credit for Nontraditional Work

The College is eager to aid superior students who are capable of demonstrating competence in courses without regular class attendance and the customary participation of students during that attendance. For such students, credit may be earned in any course in this catalog through Conference Work or Extramural Examination provided that the students meet the requirements given below:

### **Conference Work**

Conference work refers to completion of course requirements through satisfactory performance on all regularly scheduled writing assignments and examinations, including the final examination. Students enrolled for conference work are excused from regular class attendance. The requirements for conference work are: the instructor excuses the students from all participation except for the writing assignments and examinations; the waiver must be given at the beginning of the semester; the students must be enrolled for credit in the courses; the students must pay the regular fees for credit courses. Students who satisfactorily complete the requirements for conference work receive the same semester hours as though they attended the class regularly, and their grade will be determined by performance on the writing assignments and examinations.

### **Extramural Examinations**

Extramural examinations allow students to fulfill course requirements by meeting criteria established and evaluated by a special examining committee. Extramural examinations are customarily taken by students whose work outside of college classes has given them knowledge equivalent to that of students who have completed the classes.



The requirements for extramural examination are:

1. Students must obtain the application from the College Advising Center and return the completed form to the Center.
2. Students must pay one half the regular fees for the course.
3. A faculty committee must agree to serve as examiners. The committee will consist of a regular instructor for the course, who chairs the committee, and two additional examiners, one of whom must be from outside the Division.
4. Students must take both a written and an oral examination.
5. Students must submit to the chair of the committee any evidence of achievement, in addition to the written and the oral examinations, which the chair requires.
6. Students must be enrolled concurrently in the College for a minimum of 6 semester hours of regular course work.

Credits earned by conference work and by extramural examination are counted in the student's regular load, which must not exceed 17 semester hours per semester. (See "Normal and Maximum Course Loads.")

#### Cooperative Internships

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

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

Transfer students must have completed one full semester of work (12 hours).

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

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

#### Independent Study

Superior students may, with permission of the Departmental or Divisional Chair and the Dean, register for Independent Study in a particular department. The student must have an overall grade point average of 3.0, a grade point average of 3.5 in the department, and at least 18 semester hours' credit in that department. Independent Study consists of a minor research project conducted under the direction of a faculty member. Students obtain forms for Independent Study from the College Advising

Center. The completed forms with required signatures must be turned in at registration. Credits earned through Independent Study are counted in the regular load, which must not exceed 17 credit hours per semester.

#### Catalog Year

Students pursuing an undergraduate degree shall meet the degree requirements in effect at the time of their first admission to any degree-granting unit of the University provided they have not had a break in enrollment of two or more calendar years. If a student has a break in enrollment of two or more calendar years, that student must apply for readmission and, if admitted, will be subject to catalog requirements in effect at the time of readmission. Students may elect to follow the most recent degree or program requirements established subsequent to their initial entry into a degree-granting unit. The University reserves the right to issue and require immediate compliance with new requirements as may be needed to respond to certification, licensure and accreditation issues.

## Academic Advising and Registration Information

#### Academic Advising

The Academic Advising Center of the College is the academic resource center for the student. The advising staff is a team of professional counselors who assist in planning programs of study, coordinating registration of courses, and providing guidance and referral services.

Academic advising assists students:

- in selecting appropriate required and elective courses
- in determining choice of major
- who are experiencing academic difficulties in their course work.

Students are expected to know the requirements for graduation through the information available in this catalog and through published addenda to this catalog.

Students who have been accepted to a major are expected to obtain advising from the faculty advisors in the department of the major. This opportunity to discuss the program with a faculty member is a very important part of the total college experience. Students should contact the department to determine the appropriate faculty advisor and the advisor's office hours.

The College also provides pre-professional advice for students interested in careers in the law and in health-related fields. The names of the appropriate pre-professional advisors may be obtained from the Advising Center.

For further information about advising in the College and for appointments with staff of the Advising Center, call 852-6487 or write to the College of Arts and Sciences Advising Center, Gardiner Hall, University of Louisville, Louisville, KY 40292. Information about the College may also be found at <http://www.louisville.edu/a-s>.

#### Registration Procedures

Freshman students with fewer than 24 earned hours, first-semester transfer students, and students with 72 or more earned program hours who have not formally applied for and been accepted into a major program must be advised by a College Advisor before registering for classes. (Visiting students and post-baccalaureate students are not subject to this requirement.) The Student Information System will not permit students for whom advising is required to register for courses until completion of the advising requirement has been entered in the Student Information System.

#### Adding Classes and Withdrawing from Classes

Students may add courses to their schedules during official registration periods. Dates are specified in the Schedule of Courses for each semester. Students are permitted to withdraw from classes during the first eight weeks of the semester or the equivalent, depending on course length; specific deadlines are published in the Schedule of Courses and may be indicated on the course syllabus. The deadline for changing from credit to audit status or from audit to credit status in a course is the University deadline for adding courses. The deadline for changing from letter grade to pass/fail, or pass/fail to letter grade is the same as for withdrawing from courses. Such changes require the processing of a drop/add form signed by both the course instructor and an advisor in the Academic Advising Center.

Students may add and/or withdraw from classes at other times only upon approval of petitions submitted to the College's Admissions and Appeals Committee. The necessary petition forms are available in the Office of the Dean. Students are required to demonstrate in their petitions that special circumstances justify their requests.

Failure to withdraw officially from a course may result in a grade of "F."

Missing grades are changed to failing grades one year after the completion of the semester in which the course was taken.

#### Repetition of Courses

Students who receive a grade of F, D, or C may repeat a maximum of four (4) such courses for which only the last grade attained will be calculated in the grade point standing. A course in which the grade was D or C may be repeated only once. Each attempt of a repeated course in excess of the four permitted by this policy will be calculated in the grade point standing. A repeat form must be filed with the Arts and Sciences Advising Center to activate this option. For courses retaken for which this option is not requested, both grades will be used in grade point calculation.

It is not necessary for students to repeat courses they have failed unless those courses are specifically required for graduation. Since C and D are passing grades and may be applied toward graduation requirements, students are advised to weigh carefully the possible advantages of improving their standings versus the possible disadvantage of discarding hours already earned.

Students who elect to repeat a course under the above regulation should understand that the course can count only once as credit toward graduation and that all grades earned for the course will be shown on their transcripts.

For the purpose of assigning graduation with College Honors, both the original grade and the replacement grade in repeated courses will be included in the expanded grade point average. This policy also applies to grades earned in semesters for which academic bankruptcy has been approved.

Permission usually will not be granted for a student to repeat lower level courses after a higher level course in the sequence has been passed.

#### Audited Courses

Audited courses do not earn credit. The transcript will indicate that the course was taken as an audit. Instructor approval is required to enroll in a course in audit status and enrollment in audit status is not permitted during Early Registration. Auditors need to discuss with the faculty member offering the course the work expected to warrant the audit (AU) designation on the transcript. Auditors who do not fulfill the work expectations may be withdrawn from the course. Students who have registered as auditors will not receive credit for the course unless their registration has been changed officially from audit to credit by the published deadline for such change. Students admitted to the College as "Auditors" are not eligible to take courses for credit and they may not change their class registration from audit to credit.

Students are cautioned that auditing a class cannot substitute for taking the course for credit if that course is part of the credit hour requirement for graduation. Any required course taken as audit must be retaken for credit in order to be counted toward a degree. Students are advised to consult with the College Advising Center or the faculty advisor in their major department to determine if registration as auditors will satisfy the intended purposes. Students may enroll for credit in any course which was taken for audit, in a semester subsequent to the semester when the course was audited, provided those students have been admitted to the College on a basis that confers eligibility to take courses for credit. If a student takes a course for both audit and credit, the transcript will show both entries.

#### Pass/Fail Courses

Arts and Sciences students who have completed 60 or more semester hours of degree applicable credit and who have a 2.00 grade point average may take one elective course each semester outside the major field on a pass-fail basis. Courses used in fulfillment of general education requirements and the language requirement and courses required by a major program may not be taken on a pass-fail basis. The instructor's consent is required to enroll on a pass-fail basis in any course that is also offered on a letter grade basis. To avoid the drop-add procedure to change from letter grade to pass-fail in a course, students are advised to obtain permission before registering. Forms may be obtained from the Academic Advising Center.

Students planning to pursue teacher certification should consult the School of Education Advising Center before electing to take a course pass-fail.

#### Normal and Maximum Course Loads

The normal program of studies in the fall and spring semesters is 15 semester hours, and the maximum load is 17 semester hours. Students who have completed a minimum of 30 hours at U of L and who have a cumulative GPA of at least 3.0 may go to the A&S Advising Center for permission to take more than 17 hours. All other students must petition the Admissions and Appeals Committee for permission for an overload. The recommended load in summer sessions is a maximum of 7 semester hours in each of the five-week terms. Students with a 3.0 grade point average at the University of Louisville may take a total maximum of 17 hours in the summer sessions with no more than 9 hours in any one five-week term. Students on academic warning or probation and students admitted in conditional status are limited to 13 hours during the fall and spring semesters and to a total of 10 semester hours during the summer sessions.

#### Course Availability

All courses offered through the 599 level in this College at the time of the printing of this catalog are listed under the departments and programs offering the courses. Courses beyond the 599 level are listed and described in the Graduate Catalog.

Following the listing of courses in this catalog some departments list the semesters in which the department plans to offer the course. Some courses may not be offered according to the plans in effect when this catalog was printed. The Schedule of Courses is the most reliable guide to courses planned for each semester or summer session.

The College reserves the right to cancel without prior notice any courses listed in this catalog or in the Schedule of Courses, and to withdraw any course which does not have an adequate enrollment at a reasonable time during the registration period for the semester. The College attempts to provide all courses required for graduation frequently enough to ensure that no student's degree will be delayed by course unavailability, but the College cannot guarantee that such delay will not occur.

Independent study, practicum, and reading courses are available by arrangement with the chair of the department or appropriate faculty member.

### Other Academic Policies of the College of Arts and Sciences

#### Awards, Scholarships and Honors

##### Dean's Scholars and Dean's List

A student who completes in one semester (fall, spring, summer) twelve or more graded credits in courses numbered at the 100-level or above with all grades of "A," and no grades of A-, "I," "X," or "U," is named a Dean's Scholar. A student who completes in one semester (fall, spring, summer) twelve or more graded credits with a 3.5 grade-point average, and with no grades of C- or below or "I," "X," or "U," is named to the Dean's List. (The grade "P" has no effect on the determination for Dean's Scholars or Dean's List.)

A student who meets either of these standards in one semester will be awarded the appropriate honor through ordinary clerical procedures in the Office of the Dean. A part-time student who meets the standards for Dean's Scholar or Dean's List in a series of semesters (fall/spring/summer) in the College of Arts and Sciences, consecutive from the standpoint of the student's enrollment, may petition through the Arts and Sciences Advising Center for award of

the appropriate honor. Such petitions must be made within one semester of meeting the requirement. All hours earned in the final semester of the series will be counted, and hours earned in any one semester may not be counted more than once toward either honor.

#### Grade Point Average

The University of Louisville calculates a University Grade Point Average which is the standard measure of performance and the official university calculation upon which academic decisions (e.g., probation, suspension, eligibility for graduation) are made. The University Grade Point Average is determined at the undergraduate level, based upon all undergraduate course work taken at the University of Louisville.

Courses numbered below the 100-level (000-099) taken in the 1998 Fall semester or later will not be used in the earned hours or University Grade Point Average calculation.

The grade point average is determined by dividing the total number of quality points earned in the courses to be averaged by the total number of semester hours attempted in those courses. Only courses in which a student has earned grades of A, B, C, D, and F count in determining the number of hours attempted.

Grades earned in courses taken at other institutions are not counted in determining a student's University of Louisville grade point average; however, the policies of individual departments or programs may require that grades in specific courses be at the level of "C" or above to fulfill degree requirements, regardless of where they were taken.

#### Definition of Satisfactory Standing

To make satisfactory progress, students must maintain a cumulative average of at least 2.0. To graduate, students must attain a 2.0 grade point average in the major department and a 2.0 grade point average overall, unless a higher average is required for the specific degree sought. All point-standing calculations are made on cumulative, end-of-term grades.

Warning, Probation, Suspension, and Readmission Students are in Satisfactory standing when they have a minimum cumulative grade point average of 2.0. Visiting students enrolled in the College of Arts and Sciences are subject to the same standards for retention as matriculated students

1. Students who, after the first 12 degree-applicable hours at the University of Louisville, have a grade point average below 2.0 will be placed on Academic Warning. Students on Academic Warning are limited to enrollment for 13 credit hours in a fall or spring semester and 10 credit hours for the summer terms.

2. In any subsequent semester, a student whose grade point average falls below 2.0 will be placed on Academic Probation for the next semester of enrollment. The enrollment of students on probation is limited to a maximum of 13 semester hours in a fall or spring semester and 10 credit hours for the summer terms. Students on probation may also be subject to specified course registration requirements, or other actions deemed appropriate by the College.
3. The record of a student on Academic Probation will be evaluated at the end of the probationary semester, with one of the following outcomes:
  - a student whose cumulative grade point average is 2.0 or above will be restored to Satisfactory standing.
  - a student whose grade point average for the probationary semester is 2.0 or above, but whose cumulative grade point average remains below 2.0 will be retained on Probation.
  - a student whose cumulative grade point average is still below 2.0 and who earned a semester grade point average below 2.0 will be placed on Academic Suspension and will be required to sit out at least one semester. Students dismissed after a fall semester must sit out the following spring semester; students dismissed after a spring semester must sit out the following summer and fall semesters; and students dismissed after a summer semester must sit out the following fall semester. Students must sit out at least one calendar year after any subsequent suspension.
4. No work completed at another college during the period of suspension will be accepted for credit in the College.
5. Readmission of suspended students is not guaranteed. In order to be considered for readmission, a student must submit a written petition to the Committee on Admissions and Appeals and an "Application for Undergraduate Admission" to the Office of Admissions. The petition must be received by that office no later than July 1 for readmission for the fall semester, November 1 for readmission for the spring semester, and May 1 for readmission for the summer terms. The petition should address the student's perception of the causes of poor performance, the steps the student has taken to address those causes, and a plan of action to return to satisfactory academic standing. Students who are granted readmission will be readmitted on Probation.

- University policy permits students who are suspended or dismissed by an academic unit to apply for admission to another degree-granting unit whose minimum admission standards they meet. However, students are cautioned that if admitted to another unit, they may not enroll in any courses in the unit from which they were suspended or dismissed.
- A student will not be readmitted more than twice. A third suspension constitutes an Academic Dismissal from the College.

Students have the responsibility to know their current academic status. The College routinely notifies students when their status changes, but such notification may not be possible before the beginning of the next semester. Any student enrolled for courses during a semester of suspension/dismissal will be required to disenroll.

#### Limited Load

The College may place students on "Limited Load" when it is determined that such restriction will benefit their academic performance. Limited load for all students other than first-time freshmen taking GEN 101 is 13 semester hours or less.

#### Making Up Incompletes

Students unable to complete course work because of conditions beyond their control, in particular because of severe illness, may be granted an "Incomplete" so that the work can be completed. The "Incomplete" was not created to prolong the available time in a semester for students who fall behind for reasons under their control. Instructors are required to demonstrate that the proper conditions were met for students receiving an "Incomplete."

Those conditions are:

- The majority of the course work was completed by the end of the semester; AND
- The performance in course work completed by the end of the semester met the published standards for a passing grade; AND
- The final portion of the course work could not be completed for reasons beyond the student's control.

Instructors' requests for documentation of the extenuating circumstances must be honored by the student.

Students must complete the course work no later than the end of the next regular semester (by the next fall if the incomplete was given in a summer or spring semester; by the spring semester of the same academic year if incompletes were given in the fall semester). Failure to complete the work by the deadline will result in an automatic change of grade from "I" to "F" unless the Dean grants an extension. If the work is completed by the deadline, the instructor will submit a change of grade from "I" to the letter grade earned. The change of grade forms will not be accepted if delivered by the student.

**Concurrent Registration in Another Institution**  
Students matriculated in the College of Arts and Sciences who wish to enroll in courses at another institution must obtain permission from this College. Such students should contact the Academic Advising Center for that permission.

If the student wishes to enroll concurrently in this College and at another college or university, he or she must report all attendance to the Registrar's Office at the time of registration. The combined program of work in all institutions may not exceed the maximum course load permitted for students in the College.

Failure to fulfill these regulations may result in loss of credit from this College or in ineligibility to transfer the credits from the other schools toward the requirements for graduation from this College.

#### Metroversity Courses

See the General Information section of this catalog for information on enrolling in Metroversity courses. Because the courses of the member institutions differ, not all courses available through this plan meet this College's requirements. Students should consult with the Academic Advising Center to determine whether specific Metroversity courses that interest them will meet this College's requirements.

#### Academic Bankruptcy

"Academic Bankruptcy" allows students who are returning to college after remaining out for an extended period to void one or more entire semesters of previous college work.

If the student meets the following criteria and if the Admissions and Appeals Committee believes there are extenuating circumstances which warrant such action, the committee may rule the student eligible to declare academic bankruptcy. To be eligible the student:

- must not have attended any college or university during a period of 2 calendar years immediately preceding this readmission; AND
- must state in writing the intention to declare bankruptcy, specifically designating the term or consecutive sequence of terms to which the bankruptcy process is to apply.

The student must attain at least a 2.5 quality point standing in all degree applicable courses while attempting the first 12 hours after readmission. (All courses taken during the term in which the twelfth-hour minimum is attained will be considered in determining eligibility for bankruptcy.) After these 12 hours have been attempted, the student must petition the Admissions and Appeals Committee for academic bankruptcy, designating the term or consecutive sequence of terms to which the bankruptcy process is to apply.

The voided grades and credit hours will not be considered for degree requirements or quality-point computations, but will remain on the student's transcript. Academic actions, such as probation or dismissal, recorded at the end of the voided terms, will also remain.

**NOTE:** Grades earned in semesters for which academic bankruptcy has been approved are counted in the student's Expanded Grade Point Average to determine eligibility for graduation with honors.

No student may declare bankruptcy more than once.

Bankrupt semesters will not apply toward enrollment semesters when determining catalog year.

No person using these bankruptcy procedures shall be eligible to participate in any intercollegiate competition until the specified grades and courses have been declared void.

#### Class Attendance Policies

The College assumes that all students will accept responsibility for attending all classes. Attendance is an obvious factor in knowing what material was covered and what assignments were made during the class period. It is the student's responsibility to find out what work was missed. Absence from class in no way relieves the student of responsibility for any of the course work.

Instructors are not required or expected to investigate prolonged absences. Students who stop attending class without officially dropping before the advertised deadline will remain on the class roster, and instructors will assign these students the grade "F."

Instructors who choose to do so may include attendance in determining a student's grade. Instructors who use attendance as a factor must indicate on their syllabus what their policy is and how attendance will affect the student's grade.

#### Final Examinations

It is College policy that no student may be required to take more than two final examinations within a single exam day. Students facing such conflicts should inform one or more of their instructors of the situation as early in the semester as possible. Students have a right to expect their instructors will accommodate them by scheduling a make-up examination in one of the courses. In the event of difficulty in making such arrangements, students should consult the Assistant Dean for Student Support Services in the Arts and Sciences Advising Center.

## Student Conduct, Discipline and Grievance Procedures for the College of Arts and Sciences

**Responsibilities of the Student**  
It is the student's responsibility to read the catalog and official announcements, to be informed about his/her own grades, credits, degree requirements, and quality points, and to abide by the regulations of the University and the College.

#### Official Notices

All students must respond to official notices issued by administrative officers and instructors, whether these notices be posted on official bulletin boards or sent through the mail. Failure to comply with this regulation may lead to suspension from the College.

#### Academic Grievance Procedure

The College of Arts and Sciences follows the procedures for academic grievance as stated in the General Information section and as published in The Redbook, Chapter 6, Article 8. Any student considering filing such a grievance must consult with the Arts and Sciences Advising Center for advice and information.

#### Statement of Academic Discipline

In accordance with The Code of Student Rights and Responsibilities academic dishonesty is prohibited at the University of Louisville. Although cheating and plagiarism have never constituted a major problem, both faculty and students thought it important to express clearly, in advance, the standards to which the College adheres. The Statement of Academic Discipline printed below is the result of their effort and serves as the official statement for the College.

Questions which do arise are reviewed by a joint student-faculty committee, which advises the student and faculty concerned. Rights of the student to review and appeal are scrupulously observed, and minutes of all meetings are confidential.

#### I. Introduction

As members of the academic community, both students and faculty are expected to recognize and to uphold standards of intellectual integrity. The College assumes as a minimum standard of conduct in academic matters that the student is honest; credit for courses is given and received on the assumption and condition that all work submitted represents the student's own efforts.

Unfortunately, cheating and plagiarism do occur. The pressure for grades is often great, and opportunities for dishonesty exist. Nevertheless, both the ideals of scholarship and the need for practices which are fair to all students demand that all dishonest work be rejected as a basis for academic credit. The definitions and guidelines given below are intended to clarify the standards by which academic work is to be measured.

## II. Definitions

Cheating on examinations consists of any of the following: 1) borrowing someone's answers; 2) providing answers to someone; 3) using unauthorized materials during the examinations.

Except when otherwise explicitly stated by the instructor, examination questions shall become public property after they have been given.

Plagiarism, in submitting individual work for academic evaluation, means simply to borrow someone's ideas without citing the source, and to use them as one's own. It is a particular type of cheating. Plagiarism in this sense is not limited to the use of direct quotations without citation; a paraphrase is indebted to the author's ideas just as a direct quotation is. Nor is plagiarism limited to the use of published materials; borrowing from the written or oral work of others without citation is equally dishonest. On the other hand, in every area of learning there is a body of knowledge which belongs to the public domain. Guidance and experience may be necessary in order to distinguish where the requirement to cite a source no longer applies. The instructor or perhaps a style manual may be helpful in resolving questions about what should be cited.

## III. Guidelines for Instructors

Instructors have at least two roles to play in maintaining proper standards of academic conduct:

1. to assist their students in recognizing the way in which general standards apply in the context of a particular course or discipline;
2. to take practical steps to prevent cheating and detect it when it occurs.

Specific guidelines, several of them obvious, should be followed:

1. That instructors take the time to inform students of the standards of conduct expected of them with regard to assignments and examinations.
2. That practical measures be taken to minimize opportunities for dishonesty; e.g., adequate proctoring, the use of alternate forms of an examination if seating is crowded.

3. The practice of giving identical examinations to different classes, whether separated in time by ten minutes or by a semester, invites cheating. When there are good reasons for such repetition, appropriate security precautions should be taken.
4. The repeated assignment of the same material for papers or homework invites plagiarism. When assignments are repeated, students should be informed that the unauthorized reliance on earlier papers is forbidden and that the instructor has effective means of detecting same.
5. That the instructor specify with regard to assignments the degree to which students may confer and cooperate in achieving answers.
6. The College does not operate on an honor system. If within a particular class an instructor wishes to institute such a system, the students should be clearly informed of their responsibilities.

## IV. Guidelines for Students

Recognizing his/her responsibility as a member of the academic community, the student should strive to maintain intrinsically honest academic conduct. The student must seek to avoid any action which would compromise academic integrity. To ensure both the fact and the appearance of proper conduct, the student should follow these basic guidelines:

1. During examinations, the student must be careful to do nothing that can be construed as cheating.
2. The student shall follow carefully all directions given by the instructor with regard to taking tests and completing assignments.
3. The instructor's request to keep test questions private shall be honored by the student.
4. If the student is aware of practices by the instructor which are conducive to cheating, or of acts of cheating by students, he/she may convey this information either to any member of the student-faculty review committee (see section "V. Procedures") or directly to the instructor.
5. Learning the proper methods of documentation and scholarship is also the student's responsibility. Such knowledge will help avoid committing plagiarism unwittingly.

## V. Procedures

As evidence of the seriousness with which the College regards these matters, a student-faculty review committee, the Committee on Academic Discipline, has been established to assist in dealing with violators. The Committee on Academic Discipline exists also to protect the student's right to a fair and impartial hearing. To ensure its effectiveness, the faculty should view it as the primary channel through which such problems can be resolved. The faculty member who believes a problem of cheating or plagiarism exists should

first confront the student or students involved and attempt to resolve the matter. A report of the facts of the case and any decision which was made should be sent by the professor to the Dean or the committee. During this initial encounter the faculty member should inform the student of his/her right to appeal an unfavorable decision to the committee. This committee is comprised of three students, selected by a nominating committee of the Student Council; three faculty members, representing the three divisions of the College, elected by the faculty; and the Dean of the College, ex officio. The committee shall select its own chair. The committee can be convened by notifying either the Dean or the chair that there is a case.

Written statements shall be made by both parties and made available to both parties and the committee prior to any oral testimony. Any refutations may be made in writing or orally at the hearing. Evidence not submitted in the original written statements will not normally be accepted at the oral hearing.

All evidence in writing before the committee in a case shall be available to the principals.

The committee shall hear such cases as come before it and allow the student to speak on his or her own behalf and to present evidence and witnesses. Further, the burden of proof rests with the person making the charge.

The committee is given the responsibility of recommending the penalties for the violator, and such penalties shall be commensurate with both the nature and the seriousness of the case in question. Typically, for the first offense of cheating or plagiarism, failure in the course will be recommended; of course, the instructor retains his/her right to assign the grade. Any subsequent offense may result in a recommendation to the Dean to suspend or dismiss the individual from the College. All final actions taken by the Dean that result from committee recommendations shall be entered in the student's record.

The committee may adopt additional principles or procedures as seem appropriate. Such changes, however, should be presented to the faculty for approval.

Any student who believes the processing or final disposition of a charge of academic dishonesty was unfair may initiate a grievance under the Academic Grievance Procedure as outlined in the General Information section of this catalog.

## Graduation and Degree Requirements

All undergraduate degree programs are based on a combination of freshman, sophomore, junior, and senior level courses which form a coherent, comprehensive undergraduate curriculum. The important distinction between these levels is that the freshman and sophomore curriculum is designed to provide a background that helps form the basis for advanced course work and concentration in a major area at the junior and senior level. The junior and senior level courses permit students to pursue more advanced work in the chosen major, in related fields, and in courses designed to explore the relationships among the disciplines.

### Admission to a Major

In order to graduate from the College of Arts and Sciences, all students must major in one of the degree programs of the College. To become a major in a degree program, students must complete an Application for Major form which is available in the College Academic Advising Center. The completed form is submitted to the Advising Center and then transmitted to the major program or department for consideration. Students become majors after acceptance by the department or the program. Some departments have specific requirements (e.g., completion of introductory course; minimum g.p.a.) for admission to the major. Consult the Advising Center for details of any admission requirements for a particular major. Students interested in a B.A. who find that the College's major programs do not meet their interests and needs should consider the Liberal Studies major.

Students may apply for admission to a major at any time. Most programs allow students to take work in the major field and in related fields during the freshman and sophomore years. Students who need to discover or confirm the choice of a major are encouraged to take a variety of foundation courses in different fields. Students who feel certain of their choices are encouraged to declare a major early in their college experience in order to enjoy the benefits of advising and counseling from faculty in the major program. Students may change majors at any time; however, the need to fulfill the requirements of the ultimate major might require additional course work beyond the minimum hours required for graduation from the College.

## General Requirements for Baccalaureate Degrees (B.A., B.S., and B.F.A.)

The baccalaureate degree is the most comprehensive undergraduate degree in the College. It is awarded to students who have completed both College-wide requirements and the requirements of the selected major. This combination is designed to provide the broad spectrum of educational experiences that is fundamental to a liberal arts degree.

### • **Minimum Hours.**

Each student must present a minimum of 121 semester hours of credit (unless a higher minimum is specified in a program of study).

### • **Upper Level Hours.**

At least 50 of the total semester hours, whether required or elective, must be earned in course numbered 300 or higher.

### • **Point Standing.**

Each student must attain a grade point average of at least 2.0 for all courses in the major field, and 2.0 overall. Details of requirements in programs requiring higher standings may be seen in departmental entries.

### • **Maximum Hours in Major.**

No more than 40 hours in the major field may be applied toward graduation by candidates for the B.A. degree. No more than 60 hours in the major field may be applied toward graduation by candidates for the B.S. degree. No more than 80 hours in Art (courses designated ART and ARTH) may be applied toward the B.F.A. in Fine Arts.

### • **Residence Requirements.**

Thirty of the final 36 hours of work applicable to the degree must be taken in residence, that is, as a student enrolled in the College of Arts and Sciences. (Credits earned through CLEP do not count as resident hours, regardless of when taken.) For the combined degree (i.e., the baccalaureate degree from the College of Arts and Sciences combined with a degree or certification from a professional school), residence requirements are met by taking at least 30 of the last 36 hours of pre-professional work in the College of Arts and Sciences of the University of Louisville.

Candidates for the Science-Dental Hygiene degree must also complete professional work at the University of Louisville. (Exceptions to the requirement that students complete the professional work at the University of Louisville may be made for students licensed to practice as dental hygienists.) Students who have transferred credit into the College are required to complete at least 6 semester hours in their major in the College.

### • **Second Bachelor's Degrees**

Before being awarded a second bachelor's degree, students must earn a minimum of thirty (30) additional semester hours in the College. For students pursuing two degrees simultaneously, these thirty (30) hours will be added to the minimum total of semester hours needed for the degree requiring the least number of hours.

### • **Departmental Learning Outcomes Assessment**

Completion of a baccalaureate degree also requires students to submit work to the department of the major for the department's Learning Outcomes Measurement. Details about the specific requirements and deadlines of an individual department are available in the department office. Students are advised to make themselves aware of these requirements as early as possible in their academic careers.

### Associate in Arts Degrees

The College awards the Associate in Arts Degree in Paralegal Studies.

### Requirements for Combined Degrees

Candidates for the combined degrees must complete all requirements of the College of Arts and Sciences and of the professional school. Students in the Science-Dentistry program must fulfill all requirements of the College of Arts and Sciences before entering the professional school. Students in the Science-Dental Hygiene program usually take Arts and Sciences courses before acceptance into the professional phase of the program, during enrollment in it, and after completion of the professional program. See department entries for specific requirements.

### Requirements for Minors

The course work requirements for a minor consist of a minimum of 18 semester hours. A maximum of 3 hours of pass-fail work may be applied. Students may elect a major and a minor in the same department only if there is more than one degree program in that department and if the major and minor are in two different programs of the department. Students who elect a minor and a major in the same department are cautioned that no more than 40 semester hours with the same departmental designation may be applied toward the 121 hours minimum for a B.A. degree and no more than 60 hours with the same departmental designation may be applied toward the 121 hours minimum for a B.S. degree. Students also are cautioned that completion of the major, which is required for all degrees, and completion of the minor, which is optional, may require the student to complete more than the 121 semester hours minimum required for a baccalaureate degree. Courses required for the minor may be used to fulfill other degree requirements. Successfully completed minor programs are recorded on the student's transcript.

Students who have transferred credit into the College are required to complete at least 3 semester hours in their minor in the College.

Approved minor programs are included in departmental or program entries.

Arts and Sciences students may apply for a minor offered by other schools within the University. Consult the Advising Center of the appropriate unit for information on specific minor programs.

Students who want to take a minor must apply for admission to the minor program after acceptance into a major program. Application forms may be obtained in the Academic Advising Center. The department or program may accept or reject the application. Satisfactory completion of course work required for a minor will be certified as completion of the minor, and will be shown on the student's transcript only if the student's application has been accepted by the department or program offering the minor. The designation of a major and of a minor is made on the transcript only after completion of all graduation requirements.

### Application for Graduation

Students must apply for graduation in the beginning of the semester in which they expect to complete all degree requirements. Specific deadlines are announced in the Schedule of Courses. Application for Degree forms may be obtained from the College Advising Center. Completed forms must be submitted to the Advising Center by the date published for each semester in the Schedule of Courses. The Advising Center will conduct a degree audit following receipt of the forms. However, students are strongly urged to request a preliminary degree audit prior to their final semester so that any deficiencies in degree requirements can be identified early.

### Graduation with College Honors

Baccalaureate degree students who have earned a minimum of 60 hours of degree credit in residence in the College of Arts and Sciences will be eligible for consideration to graduate with College Honors. Final determination of a student's eligibility to graduate with College Honors will be based on the student's standing upon completion of the degree.

In determining eligibility for graduation with College Honors, the College takes into consideration not only the cumulative grade point average, but also an "expanded cumulative grade point average" which is calculated only for the purpose of determining eligibility for graduation with College Honors and only if a student's university grade point average is 3.5 or above.

The "expanded grade point average" is based on the grades in all college-level work. In the case of repeated courses, both the original grade and credit hours and the replacement grade and credit hours will be included in the calculation. Similarly, grades and credit hours excluded from the university grade point average through application of the academic bankruptcy provision will be included in determining a student's expanded grade point average. In the case of work done at other institutions, all grades and credit hours in all degree-applicable courses will be included in determining a student's expanded grade point average.

For combined-degree students, the cumulative expanded grade point averages will be calculated on non-professional courses only.

The minimum grade point average requirements for graduation with College Honors are:

#### **Cum Laude**

3.5

#### **Magna Cum Laude**

3.75 (with no honors project)

3.65 (with honors project)

#### **Summa Cum Laude**

3.75 (with honors project)

For a student to qualify for graduation cum laude, magna cum laude, or summa cum laude, the grade point average and the expanded grade point average must both satisfy the stated minimum requirement.

To graduate summa cum laude (or magna cum laude with a 3.65-3.74), a student must have not only the requisite university and expanded grade point averages, but the student must also give evidence of scholarship and originality by submitting a research paper, or independent study report, or other independent work (honors project).

It is essential that any student planning to complete an honors project in order to graduate magna cum laude or summa cum laude contact the Director of the College Honors Program early in the senior year with regard to verifying eligibility, and in order to learn deadlines for the proposal, the completed project, and the defense of the project.

Students should consult the Director of Honors with any questions concerning eligibility and requirements for graduation with College Honors.

## University General Education Requirements and College Programmatic Requirements

The following section states the University and College requirements which, when combined with the requirements of the selected major, constitute a full degree program. The specific requirements for the major are given in the degree program section of this catalog. It is essential that students seeking a degree understand all of the requirements for that degree. The minimum number of hours required for a bachelor's degree in the College of Arts and Sciences is 121; some programs may require additional hours.

### General Education Requirements

Each student in the University must complete requirements in general education, the purpose of which is to ensure breadth of study during the undergraduate work. For specific General Education Requirements and a list of the courses which fulfill them, see the General Information section of this catalog (page 20). Some of these requirements may be met through advanced placement examinations.

College of Arts and Sciences Programmatic Requirements. In addition to the University-wide General Education requirements, the College of Arts and Sciences specifies College programmatic requirements for the Bachelor of Arts, Bachelor of Science, and Bachelor of Fine Arts degrees.

#### Bachelor of Arts Degree

- GEN 101: Arts and Sciences Orientation—1 hour
- Foreign Language—completion of the intermediate level of a single foreign language—12 hours
- Courses out of the Division of the Major—9 hours, with 6 hours at the 300-level or above
- Upper-level WR—two approved courses at the 300-level or above (may be incorporated into other degree requirements)

#### Bachelor of Science Degree

- GEN 101: Arts and Sciences Orientation—1 hour
- Courses out of the Division of the Major—6 hours at the 300-level or above
- Upper-level WR—two approved courses at the 300-level or above (may be incorporated into other degree requirements)

#### Bachelor of Fine Arts Degree

- GEN 101: Arts and Sciences Orientation—1 hour
- Courses out of the Division of the Major—9 hours, with 6 hours at the 300-level or above

- Upper-level WR—two approved courses at the 300-level or above (may be incorporated into other degree requirements) Courses approved for the upper-level WR requirement are so designated in the course listing.
- General Studies 101: Arts and Sciences Orientation is required during the first semester of enrollment in the College of all new students and all transfer students with fewer than 24 semester hours of credit. Part-time students must complete General 101 prior to earning 15 semester hours in the College. A student may be exempt from this requirement if the student:
  - is a transfer student from another institution with 24 or more semester hours completed;
  - is a post-baccalaureate student or visiting student; or
  - was first admitted to the University prior to Fall 1989.

Foreign Language Requirement All B.A. degrees and some B.S. degrees require completion of the intermediate level of a foreign language (normally courses numbered 123, 142, 202, or 221), or passing the language qualification test and the language course into which the student is placed. Unless otherwise stipulated, any of the modern or classical languages, including American Sign Language, offered by the College may be used to fulfill this requirement.

For further information, see "Placement," and "Foreign Language Advanced Standing."

#### Liberal Studies Program

The College of Arts and Sciences offers a Bachelor of Arts degree in Liberal Studies that transcends the boundaries of inquiry permitted by single departments or disciplines. Through Liberal Studies, a student can create a multi-dimensional independent major that will support the student's goal—either an intended career or an intellectual interest.

A prospective Liberal Studies student must first identify the specific goals that will define the degree program. To design a program, the student chooses three to five concentrations to combine in a unified and interrelated course of study. Concentrations are blocks of courses from undergraduate departments or programs.

The first concentration must be a College of Arts and Sciences approved minor and a Liberal Studies student is required to fulfill all requirements of the minor. The second concentration must also be a block of courses from a department or program within the College of Arts and Sciences. The third concentration may be drawn from a department or discipline outside the College of Arts and Sciences. Students identifying Middle Grades Education as their goal may substitute a state-approved "Teaching Field" for

the departmental minor. If two teaching fields are required, a third area of concentration is unnecessary.

No more than 24 semester hours of coursework taken outside the College of Arts and Sciences may be accepted toward the Liberal Studies Degree. All programs must meet the General Education requirements of the College of Arts and Sciences as well as specific Liberal Studies programmatic requirements.

To qualify for admission to the Liberal Studies Program, a student must have:

- a goal that calls for a degree program that is both interdisciplinary and integrated;
- 45 semester hours of college coursework;
- 2.75 cumulative grade point average (including transfer grades if applicable) and;
- an approved written proposal including a detailed curriculum plan.

For additional information about the Liberal Studies program, please refer to the website ([www.louisville.edu/a-s/lbst](http://www.louisville.edu/a-s/lbst)) or contact the program advisor at 852-2249.

## Code of Faculty Responsibilities

### 1.0 Applicability

This code shall apply to all faculty members associated with the College of Arts and Sciences of the University of Louisville and to all graduate students and other personnel having teaching or research assignments in that school, hereinafter referred to as the teaching and research personnel.

### 2.0 Responsibilities

The teaching and research personnel of the College of Arts and Sciences hereby subscribe to the following specific responsibilities:

#### 2.1 General Relations

**2.11** The teaching and research personnel shall respect the rights of all members of the University community to pursue their academic and administrative activities, provided these activities do not contravene academic freedom. They retain the right to criticize and seek revision of these activities.

**2.12** They shall respect the rights of all members of the University community to free and orderly expression.

**2.13** They shall respect the right of any member of the University community to privacy and confidentiality. This right guarantees freedom against violation without consent of assigned physical premises, such as carrels and office space; and also against nonphysical transgressions, such as the unwarranted, improper or false disclosure of a person's political, religious or social views or activities.

**2.14** They shall respect the student's right of confidentiality regarding grades.

**2.15** They shall respect the rights of all persons of the University community to be free from sexual harassment.\*

### 2.2 Student Relations

**2.21** The teaching and research personnel shall uphold the student academic rights as set forth in the Student Bill of Rights adopted by the College on March 1, 1971.

**2.22** They shall make known, in writing, as soon as possible during the first week of instruction, their expectations for the course as to assignments, methods of evaluation, and student course participation.

**2.23** They shall present the subject matter of a course as published in the catalog, and shall avoid the persistent intrusion of material which has no relation to the subject.

**2.24** They shall meet classes as scheduled in accordance with university regulations. Absences caused by illness, emergencies, personal responsibilities, or religious observances are excusable but must be reported to the Department Chair, in advance, if possible. Absences owing to professional obligations such as attendance at scholarly meetings or occasional professional service are excusable absences which nevertheless require prior notification of the Department Chair. In the case of anticipated absences, a qualified substitute, or provisions for additional assignments or alternate activity should be arranged.

**2.25** They shall make themselves available for advising students by observing posted office hours, and by allowing students to arrange for appointments at other mutually convenient times.

**2.26** They shall learn the academic requirements and various degree programs of the University affecting students whom they advise.

**2.27** They shall arrange for appropriate interaction and communication with graduate students in the direction of their theses.

**2.28** They shall provide students with an evaluation of their completed work within a reasonable period of time, and allow them access to their own papers, quizzes, and examinations.

**2.29** They shall give final examinations, when these are required as part of the evaluation of the student, in accordance with schedules and procedures adopted by the College.

**2.30** They shall give due acknowledgement to students who contribute to faculty efforts toward professional or personal advancement.

**2.31** They shall respect the student's right to decline participation as a research subject in, or to withdraw from, a particular experiment without prejudice to his/her grade. Alternate experiences or exercises shall be provided to assure the equivalent in educational value to those students who wish not to participate as research subjects. Departments which use human subjects in experiments shall adhere to such code of ethics as are established within their respective professions.

**Specifically:**

**2.31.1** Experimenters shall inform human subjects about the nature of each particular experiment so that they can make an informed choice to participate or not.

**2.31.2** Experimenters shall keep the results of an experiment and the identity of the human subjects, who participate in it, separate, and the latter, confidential.

**2.32** Teaching and research personnel shall respect the rights of all students to be free from sexual harassment.\*

\* Sexual harassment is here used as defined by current University policy.

Department of  
Aerospace Science  
(Air Force ROTC)

Application of Credits  
Air Force ROTC courses may be used as free electives in a degree program.

Faculty  
**Department Chair and Professor of Aerospace Studies**

Steven W. Martin, Lt. Col.  
U. S. Air Force  
M.S., University of Arkansas

**Assistant Professors**

Thomas A. Prince, Major  
U. S. Air Force  
M.S., Central Michigan University

Jodi L. Witt, 1st Lt.  
U.S. Air Force  
M.S., Troy State University

Degree Programs  
Minor in Aerospace Studies

Department of  
Anthropology

Faculty  
**Department Chair**  
Julie M. Peteet, Ph.D.  
Associate Professor  
Wayne State University

**Professors**  
Edwin S. Segal, Ph.D.  
Indiana University

**Associate Professors**

Yvonne V. Jones, Ph.D.  
American University

Lisa B. Markowitz, Ph.D.  
University of Massachusetts

**Assistant Professors**

Jonathan A. Haws, Ph.D.  
University of Wisconsin-Madison

Shawn Parkhurst, Ph.D.  
University of California, Berkeley

Christopher R. Tillquist, M.A., M.P.H.  
University of Arizona

Faculty Emeriti  
Frederic Hicks, Ph.D.  
Professor Emeritus  
University of California at Los Angeles

Russell M. Reid, Ph.D.  
Professor Emeritus  
University of Illinois at Urbana

Degree Programs  
Bachelor of Arts in Anthropology with concentration in Social Sciences

Bachelor of Arts in Anthropology with concentration in Natural Sciences

Minor in Anthropology

Minor in Forensic Anthropology

Department of Biology

Faculty  
**Department Chair**  
Ronald D. Fell, Ph.D.  
Professor  
Iowa State University

**Professors**  
Ronald M. Atlas, Ph.D.  
Dean of the Graduate School  
Rutgers University

Gary A. Cobbs, Ph.D.  
University of California at Riverside

Paul W. Ewald, Ph.D.  
University of Washington

William D. Pearson, Ph.D.  
Utah State University

Michael H. Perlin, Ph.D.  
University of Chicago

**Associate Professors**  
Paul A. Bukaveckas, Ph.D.  
University of Indiana

Margaret M. Carreiro, Ph.D.  
University of Rhode Island

Lee Alan Dugatkin, Ph.D.  
State University of New York

Perri K. Eason, Ph.D.  
University of California/Davis

Jeffrey D. Jack, Ph.D.  
Dartmouth College

Arnold J. Karpoff, Ph.D.  
University of Oregon

Martin G. Klotz, Ph.D.  
University of Jena, Germany

Joseph M. Steffen, Ph.D.  
University of New Mexico

**Assistant Professors**

Cynthia C. Gulledge, Ph.D.  
University of Alaska Fairbanks

Jay M. Gulledge, Ph.D.  
University of Alaska Fairbanks

David J. Schultz, Ph.D.  
Pennsylvania State University

Eric V. Wong, Ph.D.  
Case Western Reserve

**Faculty Emeriti**

Charles V. Covell, Jr., Ph.D.  
Professor Emeritus  
Virginia Polytechnic Institute

William S. Davis, Ph.D.  
Professor Emeritus  
University of California at Los Angeles

Roger G. Lambert, Ph.D.  
Professor Emeritus  
University of Minnesota

Frederick H. Whittaker, Ph.D.  
Professor Emeritus  
University of Illinois

Varley E. Wiedeman, Ph.D.  
Professor Emeritus  
University of Texas at Austin

Degree Programs  
Bachelor of Arts in Biology  
Bachelor of Science in Biology  
Minor in Biology

Department of  
Chemistry

Faculty  
**Department Chair**  
George R. Pack, Ph.D.  
Professor  
State University of New York at Buffalo

**Professors**  
Richard P. Baldwin, Ph.D.  
Purdue University

Robert M. Buchanan, Ph.D.  
University of Colorado

Donald B. DuPre', Ph.D.  
Princeton University

Dorothy H. Gibson, Ph.D.  
University of Texas

Mark E. Noble, Ph.D.  
Indiana University

K. Grant Taylor, Ph.D.  
Wayne State University

Richard J. Wittebort, Ph.D.  
Indiana University

John L. Wong, Ph.D.  
University of California, Berkeley

M. Cecilia Yappert, Ph.D.  
Oregon State University

**Associate Professors**  
Teresa W. Fan, PhD  
University of California, Davis

Frederick A. Luzzio, Ph.D.  
Tufts University

Muriel C. Maurer, Ph.D.  
University of Virginia

John F. Richardson, Ph.D.  
Director, College Honors Program  
University of Western Ontario

**Assistant Professors**  
John C. Arnez, Ph.D.  
Yale University

Craig A. Grapperhaus, Ph.D.  
Texas A&M University

Pawel M. Kozlowski, Ph.D.  
University of Arizona

Christine V. Rich, Ph.D.  
University of Louisville

Francis P. Zamborini, Ph.D.  
Texas A&M University

**Faculty Emeriti**

John W. Brown, Ph.D.  
Professor Emeritus  
University of Illinois

Thomas H. Crawford, Ph.D.  
Professor Emeritus  
University of Louisville

N. Thornton Lipscomb, Ph.D.  
Professor Emeritus  
University of Louisville

Gradus L. Shoemaker, Ph.D.  
Professor Emeritus  
University of Illinois

Charles A. Trapp, Ph.D.  
Professor Emeritus  
University of Chicago

Degree Programs  
Bachelor of Arts in Chemistry  
Bachelor of Science in Chemistry  
Bachelor of Science in Chemistry with Biochemistry concentration  
Bachelor of Science in Chemistry with Business concentration.  
Minor in Chemistry

Department of Classical  
and Modern Languages

Faculty  
**Department Chair**  
Wendy E. Pfeffer, Ph.D.  
Professor  
University of Toronto

**Professors**  
Rhonda L. Buchanan, Ph.D.  
University of Colorado

William L. Cunningham, Ph.D.  
University of Texas at Austin

Alan C. Leidner, Ph.D.  
University of Virginia

Augustus A. Matri, Ph.D.  
Indiana University

Frank H. Nuessel, Jr., Ph.D.  
University of Illinois

Sydney P. Schultze, Ph.D.  
Indiana University

**Associate Professors**  
Aristofanes Cedeno, Ph.D.  
Michigan State University

John P. Greene, Ph.D.  
University of Wisconsin  
Gregory S. Hutcheson, Ph.D.  
Harvard University  
Robert D. Luginbill, Ph.D.  
University of California, Irvine

Mary Makris, Ph.D.  
Rutgers University

Manuel F. Medina, Ph.D.  
University of Kansas

Regina F. Roebuck, Ph.D.  
Cornell University

**Assistant Professors**

Mathieu S. Dalle, Ph.D.  
Pennsylvania State University

Charles Pooser, Ph.D.  
Indiana University

Clare Sullivan, Ph.D.  
New York, University

Lisa Wagner, Ph.D.  
The Ohio State University

Li Zeng, Ph.D.  
University of Toronto

**Visiting Assistant Professors**

Carmen Cedeño, Ph.D.  
Kansas State University

Ana Sofia Calado  
Universidade de Lisboa

Carmen Hardin, Ph.D.  
Southern Baptist Theological Seminary

Wendy Yoder, Ph.D.  
Indiana, University

**Visiting Scholars**

Lichang Su, M.A.  
Essex University

Xiaomei Zu, M.A.  
Nankai University

**Faculty Emeriti**

Roy L. Ackerman, Ph.D.  
Professor Emeritus  
Western Reserve University

Howard B. Altman, Ph.D.  
Professor Emeritus  
Stanford University

Fortuna Gordon, Ph.D.  
Professor Emerita  
Universidad Nacional de Mexico

David R. Hume, Ph.D.  
Associate Professor Emeritus  
University of Kentucky

Hubert Papailler, Ph.D.  
Professor Emeritus  
University of Kentucky

Hans Peterson, Ph.D.  
Professor Emeritus  
Harvard University

Marilyn V. Schuler, Ph.D.  
Professor Emerita  
University of Kentucky

Degree Programs  
Bachelor of Arts in French

Bachelor of Arts in Spanish

Minor in Chinese Studies

Minor in Classics

Minor in French

Minor in Italian

Minor in Latin

Minor in Spanish

Minor in Foreign Literature (in English)

**Department of  
Communication**

**Faculty**

**Department Chair**

Allan W. Futrell, Ph.D.  
Associate Professor  
Bowling Green State University

**Professors**

Michael R. Cunningham, Ph.D.  
University of Minnesota

John P. Ferré Ph.D.  
Associate Dean, College of Arts and  
Sciences  
University of Illinois

Joy Hart, Ph.D.  
University of Kentucky

Greg B. Leichty, Ph.D.  
University of Kentucky

Charles A. Willard, Ph.D.  
University of Illinois

Shirley C. Willihnganz, Ph.D.  
Acting University Provost  
University of Illinois

**Associate Professors**

Margaret D'Silva, Ph.D.  
University of Kentucky

Stuart L. Esrock, Ph.D.  
Bowling Green State University

Kandi Walker, Ph.D.  
University of Denver

Ede Warner, Jr., Ph.D.  
Wayne State University

**Assistant Professors**

Julie E. Berman, Ph.D.  
St. Louis University

Catherine Fosl, Ph.D.  
Emory University

Jennifer L. Gregg, Ph.D.  
Michigan State University

Selene Phillips, Ph.D.  
Purdue University

Matthew D. Wysocki, Ph.D.  
Western Kentucky University

Degree Programs  
Bachelor of Arts in Communication

Bachelor of Science in Communication

Minor in Communication

**Department of English**

**Faculty**

**Department Chair**

Susan M. Griffin, Ph.D.  
Professor  
University of Chicago

**Professors**

Dale B. Billingsley, Ph.D.  
Associate University Provost  
Yale University

Thomas B. Byers, Ph.D.  
University of Iowa

Geoffrey A. Cross, Ph.D.  
The Ohio State University

Julia C. Dietrich, Ph.D.  
Associate Dean, College of Arts and  
Sciences  
University of Cincinnati

Alan C. Golding, Ph.D.  
University of Chicago

Dennis R. Hall, Ph.D.  
The Ohio State University

Suzette A. Henke, Ph.D.  
Thruston B. Morton, Sr. Professor  
Stanford University

Brian A. Huot, Ph.D.  
Indiana University of Pennsylvania

Debra S. Journet, Ph.D.  
McGill University

Estella C. Majozo, Ph.D.  
University of Iowa

Carol Mattingly, Ph.D.  
University of Louisville

Sena J. Naslund, Ph.D.  
University of Iowa

Jeffrey T. Skinner, M.F.A.  
Columbia University

Robert N. St. Clair, Ph.D.  
University of Kansas

Thomas A. Van, Ph.D.  
Duke University

**Associate Professors**

David R. Anderson, Ph.D.  
University of Pennsylvania

S. Matthew Biberman, Ph.D.  
Duke University

Beth A. Boehm, Ph.D.  
The Ohio State University

P. Marc Bousquet, Ph.D.  
City University of New York

Karen M. Chandler, Ph.D.  
University of Pennsylvania

Paul F. Griner, M.A.  
Syracuse University

Karen C. Hadley, Ph.D.  
University of California, Berkeley

Karen A. Mullen, Ph.D.  
Director of IESL Program  
University of Iowa

Mary I. Rosner, Ph.D.  
The Ohio State University

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University of North Carolina-Chapel  
Hill.

Pamela D. Takayoshi, Ph.D.  
Purdue University

Ann Elizabeth Willey, Ph.D.  
Northwestern University

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**Assistant Professors**

Karen L. Kopelson, Ph.D.  
Purdue University

Elaine O. Wise, M.A.  
Chair, Division of Humanities  
Indiana University

Joanna L. Wolfe, Ph.D.  
University of Texas-Austin

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Lucy M. Freibert, Ph.D.  
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Robert H. Miller, Ph.D.  
Professor Emeritus  
The Ohio State University

Harold E. Richardson, Ph.D.  
Professor Emeritus  
University of Southern California

Mary Ellen Rickey, Ph.D.  
Professor Emerita  
University of Florida

Degree Programs  
Bachelor of Arts in English

Minor in English

**Department of Fine Arts  
and The Allen R. Hite  
Art Institute**

**Faculty**

**Department Chair**

James Grubola, M.F.A.  
Professor  
Indiana University

**Professors**

Ying Kit Chan, M.F.A.  
University of Cincinnati

Lida C. Gordon, M.F.A.  
Indiana University

Steven Skaggs, M.S.  
Pratt Institute

John D. Whitesell, M.F.A.  
Indiana University

**Associate Professors**

Moon-He Baik, M.F.A.  
University of North Texas

Thomas Buser, Ph.D.  
New York University

H. Stow Chapman, M.S.  
Columbia University

Linda M. Gigante, Ph.D.  
University of North Carolina at Chapel  
Hill

Barbara L. Hanger, M.F.A.  
Ohio University



Jay M. Kloner, Ph.D.  
Columbia University

Mark Anthony Priest, M.F.A.  
Yale University

**Assistant Professors**  
Karen Britt, Ph.D.  
Indiana University

R. Todd Burns, M.F.A.  
Indiana University

Mary A. Carothers, M.F.A.  
Rhode Island School of Design

Mitch L. Eckert, M.F.A.  
Ohio University

Christopher Fulton, Ph.D.  
Columbia University

Benjamin Hufbauer, Ph.D.  
University of California-Santa Barbara

Scott L. Massey, M.F.A.  
Arizona State University

Gabrielle Mayer, M.F.A.  
Bowling Green State University

**Adjunct Faculty**  
John P. Begley, M.F.A.  
Adjunct Professor  
Indiana University  
Gallery Director, Allen R. Hite Art  
Institute

Peter Morrin, M.F.A.  
Adjunct Professor  
Princeton University  
Director, J.B. Speed Art Museum

**Faculty Emeriti**  
Donald R. Anderson, M.F.A.  
Professor Emeritus  
Ohio University

Henry Chodkowski, M.F.A.  
Professor Emeritus  
Yale University

Dario Covi, Ph.D.  
Professor Emeritus  
New York University

Allen R. Hite Professor of Art History

Julia Duncan, M.A.  
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The Ohio State University

Stephanie Maloney, Ph.D.  
Professor Emerita  
University of Missouri

Suzanne L. Mitchell, M.F.A.  
Professor Emerita  
State University of New York at Buffalo

William Morgan, Ph.D.  
Professor Emeritus  
University of Delaware

Nancy L. Percy, M.A.  
Associate Professor Emerita  
University of Pennsylvania

Degree Programs  
Bachelor of Arts in Art

Bachelor of Arts in Art History

Bachelor of Fine Arts in Art

Minor in Art

Minor in Art History

## Department of Geography and Geosciences

Faculty  
**Department Chair**  
Clara A. Leuthart, Ph.D.  
Associate Professor  
University of Louisville

**Professors**  
Anthony O. Clarke, Ph.D.  
University of California at Riverside

A. William Dakan, Ph.D.  
University of California at Los Angeles

Jafar Hadizadeh, Ph.D.  
Imperial College, Great Britain

David A. Howarth, Ph.D.  
Associate University Provost  
The Ohio State University

George A. Lager, Ph.D.  
University of British Columbia

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John L. Anderson, Ph.D.  
University of Kentucky

Carol L. Hanchette, Ph.D.  
University of North Carolina

Keith R. Mountain, Ph.D.  
The Ohio State University

Wei Song, Ph.D.  
The Ohio State University

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Professor Emeritus  
Michigan State University

K. Lal Gauri, Ph.D.  
Professor Emeritus  
University of Bonn

Anne V. Noland, Ph.D.  
Associate Professor Emerita  
University of Louisville

Dennis L. Spetz, Ed.D.  
Professor Emeritus  
Indiana University

Degree Programs  
Bachelor of Science in Applied  
Geography with concentration in  
Environmental Analysis

Bachelor of Science in Applied  
Geography with concentration in  
Urban and Regional Analysis

Bachelor of Science in Applied  
Geography with concentration in  
Global and Regional Studies

Bachelor of Science in Applied  
Geography with concentration in  
Geographic Information Systems

Minor in Geography

Minor in Environmental Analysis

Minor in Urban and Regional Analysis

## Department of History

Faculty  
**Department Chair**  
John E. McLeod, Ph.D.  
Associate Professor  
University of Toronto

**Professors**  
Bruce F. Adams, Ph.D.  
University of Maryland

Ann T. Allen, Ph.D.  
Columbia University

Mark F. Blum, Ph.D.  
University of Pennsylvania

John T. Cumbler, Jr., Ph.D.  
University of Michigan

Benjamin T. Harrison, Ph.D.  
University of California at Los Angeles

Robert B. Kebric, Ph.D.  
State University of New York at  
Binghamton

Thomas C. Mackey, Ph.D.  
Rice University

Justin A. McCarthy, Ph.D.  
University of California at Los Angeles

Andrea L. McElderry, Ph.D.  
University of Michigan

Lee Shai Weissbach, Ph.D.  
Harvard University

**Associate Professors**  
Blake R. Beattie, Ph.D.  
University of Toronto

Tracy E. K'Meyer, Ph.D.  
University of North Carolina

Bruce M. Tyler, Ph.D.  
University of California at Los Angeles

Jonathan R. Ziskind, Ph.D.  
Columbia University

**Assistant Professors**  
Christine T. Ehrick, Ph.D.  
University of California-Los Angeles

Wayne E. Lee, Ph.D.  
Duke University

Scott C. Levi, Ph.D.  
University of Madison-Wisconsin

Raphael C. Njoku, Ph.D.  
Dalhousie University, Halifax, Nova  
Scotia

Karen E. Spierling, Ph.D.  
University of Wisconsin-Madison

**Faculty Emeriti**  
Charles W. Brockwell, Ph.D.  
Professor Emeritus  
Duke University

Jerry W. Cooney, Ph.D.  
Professor Emeritus  
University of New Mexico

Leonard P. Curry, Ph.D.  
Professor Emeritus  
University of Kentucky

Susan J. Herlin, Ph.D.  
Associate Professor Emerita  
Boston University

James R. Morrill III, Ph.D.  
Professor Emeritus  
University of North Carolina

Lowell W. Newton, Ph.D.  
Associate Professor Emeritus  
Tulane University

Arthur J. Slavin, Ph.D.  
Professor Emeritus  
University of North Carolina

Kerry E. Spiers, Ph.D.  
Associate Professor Emeritus  
Tulane University

Donald C. Swain, Ph.D.  
Professor Emeritus  
University of California at Berkeley

Degree Programs  
Bachelor of Arts in History with  
concentration in Humanities

Bachelor of Arts in History with  
concentration in Social Sciences

Minor in History

## Division of Humanities

Faculty  
All faculty of the Departments of  
English, Fine Arts, Classical and  
Modern Languages, Philosophy,  
Theatre Arts and of the Division of  
Humanities are members of the  
Faculty of the Division. In addition, the  
Justus Bier Distinguished Professor of  
Humanities, visiting Bingham  
Professors and visiting professors in  
the departments in the Division are  
members of the Faculty of the Division  
during the terms of their  
professorships in the College.

**Division Chair**  
Elaine O. Wise, M.A.  
Assistant Professor, English  
Indiana University

**Professors**  
Rifat Hassan, Ph.D.  
University of Durham, England

**Associate Professors**  
Annette Allen, Ph.D.  
University of Texas, Dallas

Mary Ann Stenger, Ph.D.  
University of Iowa

**Term Assistant Professors**  
Terry Burden, Ph.D.  
Southern Baptist Seminary

Karen R. Gray, Ph.D.  
Florida State University

R. Michael Johann, Ph.D.  
Indiana University

Natalie C. Polzer, Ph.D.  
Trinity College  
Cambridge University

**Faculty Emeritus**  
Arthur J. Slavin, Ph.D.  
Professor Emeritus  
University of North Carolina

Degree Programs  
Bachelor of Arts in Humanities with  
concentration in Disciplinary Studies

Bachelor of Arts in Humanities with  
concentration in Cultural Studies

Minor in Humanities

Minor in Religious Studies

## Interpreter Training Program

The University of Louisville and Eastern Kentucky University (EKU) have entered into a cooperative agreement to offer the Bachelor of Science in Interpreter for Deaf Individuals on the campus of the University of Louisville. Students may take all required coursework at the University of Louisville and receive the B.S. from Eastern Kentucky University. Course descriptions related to this program are listed in this catalog under American Sign Language (ASL) and Interpreter Training Program (ITP).

For a complete outline of the program and admissions criteria, contact Tammy Cantrell, Coordinator of the Interpreter Training Program, 300 Robbins Hall, University of Louisville, (502) 852-4607 v/tty.

Detailed information on course requirements and criteria for the ITP major is also available on the program's web site at <http://www.louisville.edu/a-s/cml/asl/index.html>.

## Department of Justice Administration

Faculty

**Department Chair**  
Deborah G. Wilson  
Professor  
Purdue University

### Professors

J. Price Foster, Ph.D.  
Florida State University

Richard A. Tewksbury, Ph.D.  
The Ohio State University

Gennaro F. Vito, Ph.D.  
The Ohio State University

William F. Walsh, Ph.D.  
Fordham University

### Associate Professors

Terry M. Edwards, Ph.D.  
University of Louisville

Elizabeth Grossi, Ph.D.  
Indiana University of Pennsylvania

### Assistant Professors

George E. Higgins, Ph.D.  
Indiana University of Pennsylvania

Thomas W. Hughes, J.D., Ph.D.  
University of Cincinnati

Angela D. West, Ph.D.  
Indiana University of Pennsylvania

### Instructors

Kathy Black-Dennis  
University of Louisville

Melissa L. Ricketts  
Indiana University of Pennsylvania

### Faculty Emeriti

B. Edward Campbell, M.B.A.  
Professor Emeritus  
University of Louisville

Ronald M. Holmes, Ed.D.  
Professor Emeritus  
Indiana University

John C. Klotter, J.D.  
Professor Emeritus  
University of Kentucky

Rolland L. Soule, B.A.  
Professor Emeritus  
Wichita State University

Degree Programs  
Bachelor of Science in Administration  
of Justice

Minor in Administration of Justice

## Liberal Studies Program

### Director

John R. Hale, Ph.D.  
Cambridge University

Degree Programs  
Bachelor of Arts in Liberal Studies

Minor in Latin American Studies

## Department of Mathematics

Faculty

### Department Chair

Kevin F. Clancey, Ph.D.  
Professor  
Purdue University

### Professors

George R. Barnes, Ph.D.  
University of California

Patricia B. Cerrito, Ph.D.  
University of Cincinnati

Udayan B. Darji, Ph.D.  
Auburn University

Richard M. Davitt, Ph.D.  
Lehigh University

Andre Kezdy, Ph.D.  
University of Illinois

Ewa Kubicka, Ph.D.  
Western Michigan University

Grzegorz Kubicki, Ph.D.  
Western Michigan University

Lee M. Larson, Ph.D.  
Michigan State University

Inessa Levi, Ph.D.  
Associate Dean, College of Arts and  
Sciences  
University of Canterbury

Robert C. Powers, Ph.D.  
University of Massachusetts

Thomas Riedel, Ph.D.  
University of Massachusetts

Prasanna K. Sahoo, Ph.D.  
University of Waterloo

W. Wiley Williams, Ph.D.  
Louisiana State University

### Associate Professors

Mary E. Bradley, Ph.D.  
University of Virginia

Manabendra N. Das, Ph.D.  
The Ohio State University

Bingtuan Li, Ph.D.  
Arizona State University

Grzegorz A. Rempala, Ph.D.  
Bowling Green State University

Steven W. Seif, Ph.D.  
University of Illinois-Chicago

Wei-Bin Zeng, Ph.D.  
University of Pittsburgh

### Assistant Professors

Ryan S. Gill, Ph.D.  
University of Texas at Dallas

Kiseop Lee, Ph.D.  
Purdue University

David R. Swanson, Ph.D.  
Indiana University

### Faculty Emeriti

Roger H. Geeslin, Ph.D.  
Professor Emeritus  
Yale University

Lael F. Kinch, Ph.D.  
Professor Emeritus  
University of Kentucky

Robert B. McFadden, Ph.D.  
Professor Emeritus  
Queens University, Belfast

Lois K. Pedigo, Ph.D.  
Professor Emerita  
University of Illinois

Leland L. Scott, Ph.D.  
Professor Emeritus  
University of Illinois

William H. Spragens, Ph.D.  
Professor Emeritus  
University of Cincinnati

Degree Programs  
Bachelor of Arts in Mathematics

Bachelor of Science in Mathematics

Minor in Mathematics

Minor in Actuarial Mathematics

## Department of Military Science (Army ROTC)

Faculty

### Professor and Chair

LTC William B. McElroy, M.S.  
Central Michigan University

### Assistant Professors

MAJ Keith Donahoe, M.B.A.  
University of Phoenix

Capt. Neil M. Boone, B.S.  
Middleton State University

Capt. Theresa A. Massengale, B.S.  
United States Military Academy West  
Point

MAJ Coy L. Turner, M.A  
Ball State University

Degree Programs  
Minor in Military Science

## Department of Pan- African Studies

Faculty

### Department Chair

Ricky L. Jones, Ph.D.  
Associate Professor  
University of Kentucky

### Professors

Robert L. Douglas, Ph.D.  
University of Iowa

J. Blaine Hudson, Ed.D.  
Acting Dean, College of Arts and  
Sciences  
University of Kentucky

### Associate Professors

Lateef O. Badru, Ph.D.  
State University of New York

Joy G. Carew, Ph.D.  
Illinois Institute of Technology

Mary E. Dogbe, Ph.D.  
University of Texas at Austin

Yvonne V. Jones, Ph.D.  
American University

### Assistant Professors

Theresa A. Rajack-Talley, Ph.D.  
University of Kentucky

### Associated Faculty

D.A. Masolo, Ph.D.  
Gregorian University, Rome  
Professor, Philosophy

Edwin S. Segal, Ph.D.  
Indiana University  
Professor, Anthropology

Lundeana M. Thomas, Ph.D.  
University of Michigan  
Associate Professor, Theatre Arts

Bruce M. Tyler, Ph.D.  
University of California, Los Angeles  
Associate Professor, History

Ede Warner, Jr., Ph.D.  
Wayne State University  
Associate Professor, Communication

Degree Programs  
Bachelor of Arts in Pan African Studies  
Bachelor of Science in Pan African Studies  
Minor in Pan African Studies  
Minor in Cultural Performance (with Theatre Arts)  
Minor in Race and Gender Studies (with Women's Studies)

## Paralegal Studies Program

### Director

Marsha Shields, M.A.

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James Becker, J.D.  
Judge Denise Clayton, J.D.  
David Deatrick, J.D.  
David Cary Ford, J.D.  
Joseph Gutmann, J.D.  
Thomas E. McDonald, III, J.D.  
Vicki Nordmann, J.D.  
Laura Russell, J.D.

Degree Programs  
Associate in Arts in Paralegal Studies  
In conjunction with the Department of Political Science:  
Bachelor of Science in Political Science with Concentration in Paralegal Studies

## Department of Philosophy

### Faculty

#### Department Chair

Osborne P. Wiggins, Ph.D.  
Professor  
New School for Social Research

#### Professors

Thomas S. Maloney, Ph.D.  
Gregorian University, Rome  
D.A. Masolo, Ph.D.  
Justus Bier Distinguished Professor of Humanities  
Gregorian University, Rome

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A. Eileen John, Ph.D.  
University of Michigan  
Robert H. Kimball, Ph.D.  
Yale University  
Nancy Nyquist Potter, Ph.D.  
University of Minnesota

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Avery H. Kolers, Ph.D.  
University of Arizona  
David S. Owen, Ph.D.  
University of Illinois-Chicago

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Northwestern University  
Paul D. Simmons  
Southern Baptist Theological Seminary

### Faculty Emeriti

Charles F. Breslin, M.A.  
Associate Professor Emeritus  
University of Louisville  
John H. Flodstrom, Ph.D.  
Professor Emeritus  
Northwestern University

Melvin E. Greer, Ph.D.  
Professor Emeritus  
Tulane University

William M. Schuyler, Jr., M.A.  
Professor Emeritus  
Princeton University

Degree Programs  
Bachelor of Arts in Philosophy with concentration in Humanities

Bachelor of Arts in Philosophy with concentration in Social Studies

Bachelor of Arts in Philosophy with concentration in Bioethics

Minor in Philosophy

## Department of Physics

### Faculty

#### Acting Chair

David N. Brown, Ph.D.  
Associate Professor  
Purdue University

#### Professors

Joseph S. Chalmers, Ph.D.  
Wayne State University  
Christopher L. Davis, Ph.D.  
Oxford University  
Peter W. France, Ph.D.  
Wayne State University  
Wei-Feng Huang, Ph.D.  
University of Virginia  
C.S. Jayanthi, Ph.D.  
Indian Institute of Technology

John F. Kielkopf, Ph.D.  
The Johns Hopkins University

Shi-Yu Wu, Ph.D.  
Cornell University

#### Associate Professors

John C. Morrison, Ph.D.  
The Johns Hopkins University

#### Assistant Professors

H. Andrew Chamblin, Ph.D.  
University of Cambridge

Shudun Liu, Ph.D.  
Rutgers University

Gamini U. Sumanasekera, Ph.D.  
Indiana University

#### Faculty Emeriti

John H. Dillon, Ph.D.  
Professor Emeritus  
Brown University

Joel A. Gwinn, Ph.D.  
Professor Emeritus  
West Virginia University

Roger E. Mills, Ph.D.  
Professor Emeritus  
The Ohio State University

P. J. Ouseph, Ph.D.  
Professor Emeritus  
Fordham University

Manuel Schwartz, Ph.D.  
Professor Emeritus  
Illinois Institute of Technology

John J. Sinai, Ph.D.  
Professor Emeritus  
Purdue University

Degree Programs  
Bachelor of Arts in Physics  
Bachelor of Science in Physics

Minor in Physics

## Department of Political Science

### Faculty

#### Department Chair

Charles E. Ziegler, Ph.D.  
Professor  
University of Illinois

#### Professors

Philip G. Laemmle, Ph.D.  
Indiana University  
Susan M. Matarese, Ph.D.  
University of Minnesota

Rodger A. Payne, Ph.D.  
University of Maryland

Ronald K. Vogel, Ph.D.  
University of Florida

Paul J. Weber, Ph.D.  
University of Chicago

Okbazghi Yohannes, Ph.D.  
University of Denver

#### Associate Professors

Julie M. Bunck, Ph.D.  
University of Virginia

Dewey M. Clayton, Ph.D.  
University of Missouri

Michael R. Fowler, J.D.  
Harvard Law School

David L. Imbroscio, Ph.D.  
University of Maryland

Laurie A. Rhodebeck, Ph.D.  
Yale University

Nathan H. Schwartz, Ph.D.  
Cornell University

#### Assistant Professors

Anne Caldwell, Ph.D.  
University of California-Berkeley

Jasmine L. Farrier, Ph.D.  
University of Texas at Austin

Shiping Hua, Ph.D.  
University of Hawaii

Sherri L. Wallace, Ph.D.  
Cornell University

### Faculty Emeriti

Adele K. Ferdows, Ph.D.  
Professor Emerita  
Indiana University

Herbert Garfinkel, Ph.D.  
Professor Emeritus  
University of Chicago

W. Landis Jones, Ph.D.  
Professor Emeritus  
Emory University

Joseph F. Maloney, Ph.D.  
Professor Emeritus  
Fordham University

Leicester R. Moise, Ph.D.  
Associate Professor Emeritus  
Indiana University

James O'Sullivan, M.A.  
Professor Emeritus  
Boston University

Degree Programs  
Bachelor of Arts in Political Science

Bachelor of Science in Political Science with concentration in Law and Public Policy

Bachelor of Science in Political Science with concentration in Paralegal Studies

Minor in Political Science

## Department of Psychological and Brain Sciences

### Faculty

#### Department Chair

Dennis L. Molfese, Ph.D.  
Professor  
Distinguished University Scholar  
Pennsylvania State University

#### Professors

Barbara Burns, Ph.D.  
Brown University

Stephen E. Edgell, Ph.D.  
Indiana University

Edward A. Essock, Ph.D.  
Brown University

Richard R. J. Lewine, Ph.D.  
University of Pennsylvania

Suzanne Meeks, Ph.D.  
Catholic University

Carolyn B. Mervis, Ph.D.  
Distinguished University Scholar  
Cornell University

Robert G. Meyer, Ph.D.  
Michigan State University

Stanley A. Murrell, Ph.D.  
University of Kansas

Heywood Petry, Ph.D.  
Brown University

Janet Woodruff-Borden, Ph.D.  
Virginia Polytechnic Institute

Frederic L. Wightman, Ph.D.  
University of California, San Diego

**Associate Professors**

Paul J. DeMarco, Ph.D.  
Vanderbilt University

Zijiang He, Ph.D.  
University of Alabama at Birmingham

Maureen R. McCall, Ph.D.  
State University of New York at Albany

Tamara Newton, Ph.D.  
Rutgers University

John R. Pani, Ph.D.  
University of Illinois

Paul G. Salmon, Ph.D.  
DePaul University

**Assistant Professors**  
Benjamin T. Mast, Ph.D.  
Wayne State University

Edna Ross, Ph.D.  
Kent State University

Barbara A. Stetson, Ph.D.  
Vanderbilt University

Pavel Zahorik, Ph.D.  
University of Wisconsin-Madison

**Faculty Emeriti**

Joseph F. Aponte, Ph.D.  
Professor Emeritus  
University of Kentucky  
State University of Iowa

John C. Birkimer, Ph.D.  
Professor Emeritus  
The Ohio State University

James M. Driscoll, Ph.D.  
Professor Emeritus  
University of Delaware

Samuel Z. Himmelfarb, Ph.D.  
Professor Emeritus  
University of California, Los Angeles

Irwin D. Nahinsky, Ph.D.  
Professor Emeritus  
University of Minnesota

John A. Robinson, Ph.D.  
Professor Emeritus  
Pennsylvania State University

Richard P. Smith, Ph.D.  
Professor Emeritus  
Emory University

Degree Programs  
Bachelor of Arts in Psychology with  
concentration in Natural Sciences

Bachelor of Arts in Psychology with  
concentration in Social Sciences

Bachelor of Science in Psychology

Minor in Psychology

Department of  
Sociology

## Faculty

**Department Chair**

L. Allen Furr, Ph.D.  
Associate Professor  
Louisiana State University

**Professors**

Jon H. Rieger, Ph.D.  
Michigan State University

Wayne M. Usui, Ph.D.  
University of California, Riverside

J. Allen Whitt, Ph.D.  
University of California, Santa Barbara

**Associate Professors**

Lilialyce Akers, Ph.D.  
University of Kentucky

D. Mark Austin, Ph.D.  
Oklahoma University

Lateef O. Badru, Ph.D.  
State University of New York at  
Stonybrook

James K. Beggan, Ph.D.  
University of California, Santa Barbara

John A. Busch, Ph.D.  
Indiana University

Melissa Evans-Andris, Ph.D.  
Indiana University

Patricia L. Gagne, Ph.D.  
The Ohio State University

Susan E. Kelly, Ph.D.  
University of California, San Francisco

Cynthia L. Negrey, Ph.D.  
Michigan State University

Shawn L. Schwaner, Ph.D.  
The Ohio State University

**Assistant Professors**

Robert H. Carini, Ph.D.  
Indiana University

Karen L. Christopher, Ph.D.  
University of Arizona

Clarence Talley, Ph.D.  
University of Maryland

Hiromi Taniguchi, Ph.D.  
Princeton University

**Faculty Emeriti**

Badr-El-Din Ali, Ph.D.  
Professor Emeritus  
The Ohio State University

James DeBurger, Ph.D.  
Professor Emeritus  
Indiana University

K. Robert Durig, Ph.D.  
Associate Professor Emeritus  
Indiana University

Degree Programs  
Bachelor of Arts in Sociology

Bachelor of Science in Sociology

Minor in Sociology

Department of Theatre  
Arts

## Faculty

**Department Chair**

Russell J. Vandenbroucke, D.F.A.  
Professor  
Yale University

**Professors**

Albert J. Harris, Jr., Ph.D.  
The Ohio State University

Michael F. Hottos, M.F.A.  
Brandeis University

**Associate Professors**

Garry Brown, M.F.A.  
University of Memphis

Nefertiti Burton, M.F.A.  
University of Massachusetts at  
Amherst

Rinda F. Frye, Ph.D.  
University of Oregon

Lundeana Thomas, Ph.D.  
University of Michigan

James Tompkins, Diplome  
Ecole Jacques Lecoq

**Instructor**

Zhanna Goldentul, B.A.  
Moscow Theatrical College

Degree Programs  
Bachelor of Science in Theatre Arts

Minor in Theatre Arts

Minor in African American Theatre

Minor in Cultural Performance (with  
Pan African Studies Department)

Women's and Gender  
Studies

## Faculty

**Chair**

Nancy M. Theriot, Ph.D.  
Professor  
University of New Mexico

**Assistant Professors**

Karen L. Christopher, Ph.D.  
University of Arizona

Catherine Fosl, Ph.D.  
Emory University

Dawn Heinecken, Ph.D.  
Bowling Green State University

## Affiliated Faculty

**Professors**

Ann Allen, History  
Barbara Burns, Psychology  
Thomas B. Byers, English  
Julia Dietrich, English  
Susan Griffin, English  
Suzette Henke, English  
Marianne Hutti, Nursing  
Kathleen Kirby, Educational &  
Counseling Psychology  
Cheryl Kolander, Health/Phys Ed/Sport  
Wendy Pfeffer, Classical and Modern  
Languages  
Sydney P. Schulze, Classical and  
Modern Languages  
Edwin S. Segal, Anthropology

**Associate Professors**

Beth Boehm, English  
Karen Chandler, English  
Rinda Frye, Theatre Arts  
Patricia Gagne, Sociology  
Karen Hadley, English  
Eileen John, Philosophy  
Mary Hums, Health/Phys Ed/Sport  
J. Carol Mattingly, English  
Nancy Potter, Philosophy  
Mary Ann Stenger, Humanities  
Pam Takayoshi, English

**Assistant Professors**

Anne Caldwell, Political Science  
Katherine Johnson, University  
Libraries  
Susan Kelly, Sociology  
Theresa Rajack-Talley, Pan African  
Studies

## Degree Programs

Bachelor of Arts in Women's and  
Gender Studies

Bachelor of Science in Women's and  
Gender Studies

Minor in Women and Gender Studies

Minor in Race/Gender Studies (with  
Pan African Studies Department)

# College of Business and Public Administration

## Degrees and Special Programs

### Note:

The University of Louisville reserves the right to change programs of study, academic policies, academic requirements, fees, schedules of courses, procedures for the confirmation of degrees, or the announced academic calendar without prior notice.

The College of Business and Public Administration reserves the right to administratively withdraw students from courses based on academic policies.

Bachelor of Science in Business Administration with Majors in:

- Accountancy
- Computer Information Systems
- CIS—Information Security Concentration
- Equine Business
- Finance
- Management
- Marketing

*(Students may double major with any of the above listed majors—excluding Economics)*

Bachelor of Science in Economics with a Major in:  
— Business Economics

### Minors

- Business Administration\*
- Economics
- Equine Business
- Finance\*\*
- International Business\*\*
- Marketing

\* Only for students not enrolled in CPBA

\*\*CPBA students only

### Certificate

- Equine Business

### BA-BS/MBA Track

Undergraduate students at the University of Louisville may obtain both a baccalaureate degree and an MBA degree in five calendar years by following the BA-BS/MBA Track. The purpose of such a track is to allow students to obtain a broad-based education in the liberal arts as an undergraduate, and then to specialize in business administration as a graduate student. As an undergraduate, the student would pursue his/her respective major while simultaneously taking the following courses:

#### Freshman Year

CIS 100; Math 107; and 111 or 205

#### Sophomore Year

Acct 201-202, Econ 201-202, Mgmt 201

#### Junior Year

Mkt 301, Fin 301, Mgmt 301, CIS 300

#### Senior Year (2nd semester)

Six hours of MBA 600-level courses

#### Fifth Year

Thirty hours of MBA 600-level courses (full calendar year)

Students desiring to follow such a track should proceed as follows:

1. Student applies for joint advising after 60 hours.
2. Student applies for MBA advising after 90 hours.
3. Student takes GMAT in the first semester of his/her senior year.
4. Assuming GPA and GMAT requirements have been satisfied, student is conditionally admitted into the MBA program in the second semester of his/her senior year.
5. Student takes 30 hours of 600-level MBA courses in the calendar year immediately following his/her baccalaureate degree.

Minimum criteria for admission and retention in the track are:

1. 3.25 GPA
  - a. 3.25 cumulative required to enter track.
  - b. 3.25 cumulative required while in track.
  - c. 3.25 overall required for all business courses.
2. Above-average GMAT score. The current average is 570.
3. Satisfactory TOEFL score (if applicable).
4. A grade of at least a "B" in each 600-level MBA course taken as a senior.

Students interested in such a track should notify their academic counselor.

#### BSE or BSBA/MBA

The BSE or BSBA/MBA offers an opportunity for students to complete the undergraduate business or economics degree in the CBPA along with an MBA degree in five years. The requirements are as follows:

#### For Admission:

Incoming Freshmen and current CBPA students with up to 30 hours of degree applicable hours:

Prospective students must have achieved an ACT score of at least 27 and a 3.5 high school grade point average.

Students meeting both of these requirements will gain admission to both the undergraduate BSE or BSBA and MBA programs as long as they maintain a 3.25 undergraduate GPA by the end of the Junior year. Students will be permitted to enroll in two 600 MBA courses the final undergraduate semester (these courses do not fulfill undergraduate hours). The student completes the remaining 30 hours in the 5th year (summer, fall, and spring).

For students meeting these requirements, the GMAT is not required.

#### Transfer/Current CBPA Students:

- 3.25 UL cumulative GPA with more than 30 degree applicable hours.
- BSBA majors complete the pre-MBA core as part of the BSBA core. Economics majors may use their undergraduate business electives to complete the core. All pre-MBA requirements must be met before enrolling in 600-level courses.
- Prior to the student's first semester of the senior year (at least 90 hours but no more than 105 hours have been earned), the GMAT must be taken.
- If the student has earned at least a 3.25 GPA and 530 GMAT (approximate) then permission will be given to enroll in two 600-level MBA courses the final undergraduate semester (these courses do not fulfill undergraduate hours).
- The student completes the remaining 30 hours in the 5th year (summer, fall and spring semesters).

#### Honors Scholars Program

The College of Business and Public Administration is committed to providing multiple opportunities for challenging educational experiences. To earn the Honors Scholar designation in business, students must take a combination of honors courses in business and arts/sciences. Specific details about eligibility, course offerings, and other program details are available in the CBPA undergraduate Advising Office or online.

## Admissions

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

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

#### Freshmen Students

Admission in Good Standing: Admission in good standing is granted to students meeting each of the following requirements:

- (1) Graduation from an accredited high school with a minimum 2.5 GPA or successful completion of the General Education Development (GED) test; **AND**
- (2) Completion of the Pre-College Curriculum. (See "Minimum Admission Standards for Public Universities in Kentucky/Pre-College Curriculum" in the General Information section of this catalog.); **AND**
- (3) A composite ACT score of 22 or above.

#### Admission in Conditional Standing

Students with an ACT composite score of 20, 21 and who meet admission requirements 1 and 2 will be admitted in conditional standing. Students in conditional standing become students in good standing if their University GPA is 2.5 or above after completion of their first semester. The University Grade Point Average (University GPA) is based on all college-level undergraduate courses taken at the University of Louisville. Admission in conditional standing is to be considered the student's academic warning according to the academic warning, probation, suspension and dismissal standards. Students will be placed on probation if after completion of their 1st semester their university GPA is less than 2.5. Students admitted in conditional status must register for required developmental courses immediately following matriculation and must continue to do so until all deficiencies have been removed. Students not admissible under the above criteria, such as home-schooled applicants, may petition for admission.

#### Mailing Address

College of Business and Public Administration  
Belknap Campus  
University of Louisville  
Louisville, KY 40292

#### Web Address

<http://cbpa.louisville.edu>

#### Telephone Numbers

**Office of the Dean**  
(502) 852-6440  
**FAX:** (502) 852-7557

**Advising**  
(502) 852-7439  
**FAX:** (502) 852-4721

## Transfer Students

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

### Admission in Good Standing

Admission in good standing requires:

- A grade point average of 2.5 or better on a 4.0 scale based on all work attempted for college credit (If previously enrolled at U of L, GPA will be calculated only on U of L work attempted for college credit). (see "Transfer Students" in the General Information section of this catalog); **AND**
- Good standing in the institution of last attendance, including eligibility to return to that institution; **AND**
- Full disclosure of previous attendance in another school or college of this University and/or any other post-secondary institution.
- Transfer students with fewer than twenty-four (24) acceptable degree credits must submit high school transcripts and ACT scores, and must meet the requirements for freshmen.

### Admission in Probation Standing

Transfer students with a gpa between 2.0 and 2.49 may petition for admission. Students with a transfer gpa below 2.0 will be admitted only under extenuating circumstances. Students with a transfer gpa below 2.5 will be admitted in probation status according to the academic warning, probation, suspension and dismissal standards (see section on CBPA Academic Status in this Catalog). Students admitted in probation standing must be advised, and are restricted to 14 credit hours per semester. Students admitted in probation standing must earn a 2.7 semester gpa following admission to avoid suspension as consistent with the CPBA policy on Academic Status. Students in probation standing will become students in good standing when their University GPA is 2.5 or above after the next semester completed.

### Other Applicants

Students whose last attendance at U of L resulted in academic suspension must petition for readmission (see section covering CBPA policy on Academic Status).

Students ineligible for admission to the College because of disciplinary action in another institution or another school of this University may be ruled eligible for admission to the College by petitioning to the College of Business and Public Administration Undergraduate Studies Committee. Students who violate the full disclosure requirement will be referred to the CBPA Undergraduate Studies Committee for determination of a mandatory withdrawal from the College for a period stipulated by the committee.

### Additional Transfer Requirements

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

- complete at least 30 of the final 36 semester hours applicable to the degree as a student enrolled in the CBPA.
- complete a minimum of 12 credit hours in the declared major at U of L.
- earn at least sixty (60) semester credit hours at four-year institutions.
- complete at least fifty hours of course work numbered 300 or higher. Work from a two-year or community college usually will not apply to this requirement. For this reason, students planning to transfer to this College from a community college or two-year college are advised to complete only the lower level portion of the College's general education requirements prior to transferring.
- Must earn a 2.50 gpa in the major and UofL cumulative

Students who have transferred to the College must meet with an academic advisor of the CBPA Advising Services Office for assistance in evaluating their records for transfer credit.

### Visiting Student Status

Visiting students from other institutions who wish to take courses in the College of Business and Public Administration may enroll in non-degree seeking status and must follow the procedure outlined in the General Information section of this catalog (see "Visitors"). Visiting students are not eligible for CBPA Co-ops and must meet all prerequisite requirements.

College of Business and Public Administration students will be allowed to visit other colleges or universities only with written permission of the Advising Services Office, CBPA Bldg., Room 039. Considerations include academic standing (students must be in good academic standing), residency requirement, course equivalency, and number of course credit hours. Total course load cannot exceed 17 hours. Failure to follow these guidelines may result in loss of credit.

### Concurrent Registration in Another Institution

Students in a degree-seeking status in the College of Business and Public Administration who wish to enroll in courses at another institution while also enrolled in the CBPA must obtain permission from the CBPA Advising Services Office, Room 039.

Upon completion of the concurrently enrolled semester students must report all attendance to the Registrar's Office at the time of the next registration. The combined program of work in all institutions may not exceed the maximum course load permitted for students in the CBPA.

Failure to fulfill these regulations may result in loss of credit from the CBPA or in ineligibility to transfer the credits from the other schools toward the requirements for graduation from the CBPA.

### Metroversity Courses

See the General information section of this catalog for information on enrolling in Metroversity courses. Because the courses of the member institutions differ, not all courses available through the plan meet the CBPA's requirements. Students should consult with the Advising Services Office to determine whether specific Metroversity courses that interest them will meet the CBPA's requirements.

### Transfer Credit Policies

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

Transfer work that is college level, academic in nature, and earned at appropriately accredited institutions will be accepted and posted as credit earned (i.e. with no grade) consistent with policies in effect for resident students. Students must be aware that majors and/or programs may require a minimum of a "C" or better for certain degree requirements. Students admitted to the CPBA from other fully accredited institutions will receive credit for academic courses, but applicability of transfer credit toward a business degree will be determined by the CPBA Undergraduate Studies Committee. Courses will be evaluated not only based on content but also as to level. Course level is determined by lower division (numbered 100-299) and upper division (numbered 300-499). A transfer course must have been taken at the same level as the equivalent course at the University of Louisville to meet degree requirements.

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

### International Students

International students who have a secondary school record sufficient to predict college success and who demonstrate proficiency in the English language by submitting evidence of University-required TOEFL scores may be admitted to the College of Business and Public Administration. Beginning applicants and transfer applicants who have completed less than one full academic year of post-secondary credit (fewer than 24 semester hours of acceptable transfer credit) must submit test scores from the American College Testing (ACT) program. Please refer to the General Information section of this catalog for more information.

### Auditors

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

### High School Visitors

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

**Awarding of Credit Through Placement Examination**  
The awarding of credit for non-business courses through placement examination is based on the College of Arts and Sciences standards. (See Arts and Sciences section for details). Currently the only business course given credit by exam is CIS 100.

**Awarding of Credit for Nontraditional Work**  
The College of Business and Public Administration does not award credit for work experience, non-credit courses, or internships, independent studies, or co-ops taken at another academic institution.

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

**Cooperative Education (CBPA Co-op)**  
Cooperative Education is an undergraduate educational program through which students get academic credit for new workplace experiences that support the educational goals of the student's academic discipline. Local and regional employers work with the College of Business and Public Administration to offer level-appropriate jobs that provide a continuous progression of learning for students. This mutually beneficial program moves the classroom into the community. Educators and employers structure individually appropriate practical experiences through which classroom theories are applied and students, through their work experience, explore career options and responsibilities.

The CBPA Co-op program adds a realistic dimension to the BSBA degree and supports the leadership role of the University of Louisville, College of Business and Public Administration in the marketplace. Students who participate in the CBPA Co-op program are better prepared for value-added employment and success in career and professional development.

Students may earn up to six (6) hours of academic credit, (maximum of 3 hours for accountancy and management majors) as elective and/or required courses, through the CBPA Co-op program, with a maximum of three (3) hours allowed in one semester. One hour of academic credit is given for each 150 hours of approved work. Students are considered full-time during a semester in which they are registered for three (3) co-op credit hours. Students register for credit during the semester in which the majority of the work takes place. Registration for CBPA Co-op is flexible and deadlines appropriate for each semester are posted in the CBPA Co-op Office.

All majors are encouraged to plan in advance for co-op, which is typically taken during the junior and/or senior years. Co-op credit satisfies major area and/or general business elective course options according to discipline guidelines. Computer Information Systems majors register for co-op as a graduation requirement and usually work full-time for six (6) months prior to graduation. Marketing majors are required to take three (3) hours of co-op over a period of one (1) to three (3) semesters to meet graduation requirements. Elective credit to satisfy graduation criteria is available for up to an additional three (3) hours in Marketing, for up to three (3) hours in Accountancy and Management, and for up to six (6) hours in Economics and Finance. Consult the Degree Programs section of this catalog to determine discipline guidelines affecting CBPA co-op course credit.

International students must validate work authorization eligibility through the International Center prior to working with the CBPA Co-op Office. Four and five-year individual academic plans that include CBPA Co-op require student flexibility and an openness to creative scheduling, but the benefits are many.

Approved CBPA Co-op opportunities range from full to part-time, temporary to permanent, paid to non-paid. Students may work full-time, alternating semesters of co-op with semesters of campus academics, or accept part-time positions in order to parallel workplace and classroom experiences. Co-op evaluations are graded on a Pass/Fail basis. Employment arrangements are between students and employers while the CBPA provides structure, focus, guidance, and evaluation for educational components. Program requirements include the following:

1. Be enrolled in good standing in the University of Louisville, College of Business and Public Administration or pursuing a B.A. in Economics in the College of Arts and Sciences.
2. Maintain a 2.5 University GPA
3. Have completed prerequisite courses established by each major area of study.

4. Work in positions that are approved for credit in the educational discipline of the student's major. (These positions must be current level-appropriate experiences that can be characterized as new learning and/or new responsibilities. Credit is not given for past employment experience or continuing employment which does not offer new employment challenges.)
5. Apply for CBPA Co-op on its website:  
[http://cbpa.louisville.edu/coop/coop\\_student.htm](http://cbpa.louisville.edu/coop/coop_student.htm)
6. Business minors do not have the option for co-op credit.

**Academic Advising**  
The College of Business and Public Administration employs a staff of professional advisors who provide academic counseling to undergraduate and graduate students. The applicability of courses toward fulfillment of degree requirements will be determined by the academic advisors in the CBPA Advising Services Office. The following students are required to meet with an advisor each semester:

1. Freshmen with less than 24 degree-applicable credit hours.
2. New transfer students (internal and external)
3. Students who have a break in enrollment of two or more consecutive years.

While other business students are not required to see an advisor each semester, they should contact the Advising Services Office whenever they have questions regarding degree programs, course offerings, campus resources, registration procedures, academic standing, graduation requirements or other academic issues. Economics majors are required to have faculty mentoring and program approval by the Department Chair. Equine majors must contact the advisor within that discipline. For further information about advising in the College and for appointments with academic advisors, call (502) 852-7439 or write to the College of Business and Public Administration, Room 039, University of Louisville, Louisville, KY 40292.

**Programs for the Underprepared Student**  
The College recognizes that some students who have met the technical requirements of pre-college work are not prepared for college-level courses. Pre-college level (Pathways) courses were established by the University to remedy the deficiencies that would prevent the student from succeeding in college level courses. Placement in these courses is determined by performances on diagnostic examinations and/or ACT scores. Students do not receive degree credit for these courses since they are not of college level.

Any student enrolled in the University is eligible for the Pathway courses, provided that the prerequisites are satisfied. Students who require developmental courses are urged to discuss with an advisor the advisability of registering in other courses. Although students might be eligible to enroll simultaneously in college level and Pathway level courses, they may have an unsatisfactory experience in college level courses until their levels of competence are improved through successful completion of developmental work.

## Course Enrollment Policies

**Dean's List and Dean's Scholar**  
Students who earn a 3.25 grade point average and complete 12 or more hours for the semester are named to the Dean's List. Students who earn a 4.0 grade point average while enrolled in 12 or more hours for the semester and who have a 3.0 University GPA are named Dean's Scholars. These are placed on the student's transcript.

**University Grade Point Average**  
The University calculates a University Grade Point Average (University GPA), which becomes the standard measure of performance and the official calculation upon which academic decisions are made. The undergraduate University GPA is based on all college-level undergraduate course work taken at the University of Louisville.

Courses numbered below the 100-level (000-099) taken in the 1998 Fall semester or after will not be used in the earned hours or University Grade Point Average calculation.

**Academic Status/Standing within the CBPA**  
**Definition of Good Standing**  
To make satisfactory progress students must maintain a University grade point average - GPA of 2.5 or higher. To graduate, students must attain a 2.5 University GPA and a 2.5 average in all major courses. Students are in good standing when they have a minimum University GPA of 2.5.

**Warning, Probation, Suspension, Dismissal, and Readmission**  
Students are in good standing when they have a minimum University GPA of 2.5.

Students who, after their first semester at the University of Louisville, have a University GPA below 2.5 will be placed on Academic Warning. (Those admitted in conditional status are to be considered on Academic Warning.) Students on Academic Warning are limited to enrollment for 13 credit hours in a fall or spring semester and no more than one course per summer term. Summer terms count fully toward academic standing.

In any subsequent semester, students whose GPA falls below 2.5 will be placed on Academic Probation for the next semester of enrollment. Students on Probation are limited to enrollment for 13 credit hours in a fall or spring semester and no more than one course per summer term. Summer terms count fully toward academic standing.

Students on probation may also be subject to specified course registration requirements, or other actions deemed appropriate by the CBPA.

The records of students on Academic Probation will be evaluated at the end of the probationary semester with one of the following outcomes.

1. Students whose University GPA is 2.5 or above will be restored to good standing.
2. Students whose GPA for the probationary semester is 2.70 or above, but whose University GPA remains below 2.5 will be retained on Probation.
3. Students whose University GPA is still below 2.5 and who earned a semester grade point average below 2.70 will be placed on Academic Suspension and will be expelled from the CBPA. Suspended students are withdrawn from all enrolled courses. Students will be suspended for at least one semester (summer terms do not count as a suspended semester).
4. Students suspended by the CBPA may apply for admission to another U of L academic unit whose minimum admission standards they meet. Courses completed in another unit will be recognized by the CBPA as work completed toward degree plan requirements for students readmitted into the CBPA.
5. Readmission of suspended students into the CBPA is not guaranteed. For readmission students must submit a written petition, an academic plan form and an Application for Undergraduate Admission to the Office of Admissions. The petition must address the student's perception of the causes of poor performance, the steps the student has taken to correct those causes, and a plan of action to return to satisfactory academic standing. Petition deadlines for readmission are July 1 for Fall semester, November 1 for Spring semester and May 1 for Summer semester.

6. Students must have at minimum a University GPA of 2.0 to petition for readmission or a deferred suspension. Students out of school for two or more years may be eligible for academic bankruptcy.
7. Students will not be readmitted more than twice. A third suspension constitutes an Academic Dismissal from the University.

Students have the responsibility to know their current academic status. The College routinely notifies students when their status changes, but such notification may not be possible before the beginning of the next semester. For example, a student taking courses in the late summer term and fails to meet academic standards may be suspended after the start of the fall semester.

#### Course Numbering and Restrictions

College of Business and Public Administration courses numbered 101-299 are primarily for freshmen and sophomores, and such courses generally contain introductory or basic material. These courses are open to all students enrolled in the University of Louisville. Business courses numbered 300-499 are those in which the majority of students enrolled are juniors and seniors, and such courses contain advanced undergraduate material. Only students admitted to the College of Business and Public Administration in good standing and who have completed the proper prerequisites (It is the student's responsibility to know the prerequisites for any course by checking the course description section of the University Undergraduate Catalog) will be allowed to register for 300 and 400 level business courses. Exceptions will be made for students in baccalaureate degree programs in other units of the University which require upper-level business courses. These students must be juniors or seniors and must have the proper prerequisites to register for 300-400 level courses in the CBPA. Students must obtain permission to take these courses from the faculty advisor in their program of study. The CBPA reserves the right to administratively withdraw students from courses based on academic policies. Courses numbered 500 and above are reserved for graduate students; undergraduates may not take these courses. Note: Undergraduate students in the BA-BS/MBA track may take 600 level courses in the second semester of their senior year, if special permission is granted by the MBA advisor.

#### Course Availability

All courses offered through the 499 level in the CBPA, at the time of the printing of this catalog, are listed under the departments and programs offering the courses. Courses beyond the 499 level are listed and described in the Graduate Catalog. A Schedule of Courses is printed each year. The College reserves the right to cancel without prior notice any courses listed in this catalog or in the Schedule of Courses, and to withdraw any course that does not have an adequate enrollment at a reasonable time during the registration period for the semester. The College attempts to provide all courses required for graduation frequently enough to ensure that no student's degree will be delayed by course unavailability, but the College cannot guarantee that such delay will not occur.

#### Closed Business Classes

Students who want to pursue the possibility of entering a closed business class must petition. To petition for a closed class, the student needs to go to the College of Business and Public Administration's website: <http://cislab2.cbpa.louisville.edu/petition/>

#### Adding and Withdrawing from Classes, and Changing Grade Types

Students may add courses to their schedules during official registration periods--dates are specified in the Schedule of Courses for each semester. Students are permitted to withdraw from classes up to the specific deadlines published in the Schedule of Courses. Failure to withdraw officially from a course will result in a grade of "F." The deadline for changing from credit to audit status or from audit to credit status in a course is the University deadline for adding courses. The deadline for changing from letter grade to pass/fail, or pass/fail to letter grade is the same as for withdrawing from courses. Such changes require a "Permission Form" (found in the Schedule of Courses) be signed by the course instructor and processed in the Registrar's Office by the appropriate deadline. Missing grades are changed to failing grades one year after the completion of the semester in which the course was taken. Requests after the appropriate deadlines must be petitioned.

#### Pass/Fail Courses

Students may take one Arts and Sciences elective on a pass/fail basis per semester. Business or general education courses that are taken on a pass/fail basis will not meet degree requirements unless those courses are only offered on a pass/fail basis.

#### Course Loads

Registration for 12 or more credit hours during a semester (or for 3 credit hours of approved CBPA Co-op) entitles a student to full-time status. Students may take up to 17 credit hours each Fall and Spring semester. In special circumstances, students enrolled as majors may request more than 17 hours in the College of Business and Public Administration Advising Services Office.

Students are limited to 4 hours in the three week term and to 7 hours (including A & S courses) during each five-week term of the summer semester.

Students on academic warning and probation are restricted to a maximum of 13 hours per semester and no more than one course per summer term..

All CBPA students considering CBPA Co-op should evaluate course loads in terms of individual needs and plan accordingly with the assistance of an academic advisor. CBPA Co-op students working thirty hours a week or more are encouraged to limit course loads. Full-time student status is granted for any student registered for three (3) credit hours of co-op during one semester. Students should check with their financial aid lending institution when considering the impact of CBPA Co-op on financial planning for semesters involving co-op work.

Students planning to register for CBPA Co-op are expected to include their co-op course hours in total course load calculations and adhere to the maximum course load restrictions. Only students in good standing may register for CBPA Co-op.

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

#### Incompletes

"I" means incomplete. It is granted to students unable to complete the last requirements of a course because of circumstances beyond their control and given at the instructor's discretion. Students must complete the course work within 120 days, or the "I" is automatically changed to an "F". An "I" does not enter into grade point calculations until it is changed to a letter grade; however, the hours from the incomplete course are used to determine Academic Standing. Note: Students with an incomplete should not register again for the course.



**Class Attendance Policies**  
Regular class attendance is expected of all students. Participation and interaction with others is a critical component of an overall quality learning experience. Attendance and participation, if so indicated in a course syllabus, may be used to partially determine the course grade along with other grade components such as examinations, homework assignments, presentations, etc.

**Repetition of Courses**  
Students may repeat-to-replace a maximum of four (4) courses with grades of "F", "D", or "C". For these four courses, only the last grade attained will be used in the University GPA calculation. Courses in which a grade of "D" or "C" was originally attained may only be repeated once under the repeat-to-replace option. Students are not required to repeat an "F" grade unless the course is specifically required for graduation. Students should be aware all grades are displayed on the official transcript even after the repeat. The CPBA will honor any previously granted repeats from other Schools and Colleges within the University. For example, if a student uses three (3) repeats in Arts and Sciences classes, that student will be eligible for only one (1) additional repeat-to-replace option in the CBPA. A repeat-to-replace form, available in the Advising Services Office, must be filed to activate this option. For courses retaken for which this option is not requested, both grades will be used in the University GPA calculation, but students cannot receive double credit in hours required for the degree. Since "C" and "D" are passing grades and may be applied toward graduation requirements, students are advised to weigh carefully the possible advantages of improving their standings versus the possible disadvantage of discarding hours already earned. In addition, the hours from the repeated course(s) are used to determine academic standing.

The last grade attained for any repeated course determines the applicability towards degree requirements.

**Audited Courses**  
Audited courses do not earn credit. Audit status is offered only on a space available basis. For that reason, students may not register for a class in an audit status during early registration, nor may a student change from a graded status to an audit status during that period. Students may register for classes in audit status during late registration and then only with written approval of the instructor of the course. Any new registration must be done by the first day of classes. Students are allowed to change from audit to grade status or from graded status to audit status at any time from the beginning of the late registration through the last day to add a class so long as they have approval

from the course instructor. Students are advised that such approval is the instructor's prerogative, subject to completion of course prerequisites, and that audit status may have implications for financial aid eligibility. Any change of status must be submitted on the form provided in the Schedule of Courses. Forms must be turned in to the Registrar's Office by the deadline. Students are cautioned that auditing a class cannot substitute for taking the course for credit if that course is part of the credit hour requirement for graduation, including both College-wide and major requirements. Any required course taken as audit must be retaken for credit in order to be counted toward a degree. If a student takes a course for both audit and credit, the transcript will show both entries.

**Academic Bankruptcy**  
University of Louisville students who have been out of higher education for at least two years and then return to achieve a 2.5 grade point average or higher in the first 12 degree applicable credit hours are eligible to apply for Academic Bankruptcy. All degree-applicable courses taken during the term in which the 12-hour minimum is attained will be considered in determining eligibility for bankruptcy. Under this policy, students (if approved) may remove one or more consecutive semesters of college work from their grade point average and semester hours completed calculation. University of Louisville students are advised that while bankrupted course grades are removed from the calculation, the course work does remain a part of their permanent record and that the bankrupted work may be considered for financial aid purposes, NCAA purposes, and may be evaluated if applying for honors or graduate study. Additionally, students must be aware that Academic Bankruptcy is an internal policy and the University of Louisville cannot guarantee how the work will be viewed by another university should the student choose to transfer. Students wishing to examine this option are advised to visit the Advising Services Office for details of the process. Bankrupt semesters will not apply toward enrollment semesters when determining catalog year. Bankruptcy may be declared only once. No course taken during a bankrupted semester can be used to meet a requirement.

## Degree Requirements for Graduation

**Application for Degree**  
Students must apply for their degree at the beginning of the semester in which they expect to complete all degree requirements. Degree application forms are to be filled out in the College of Business and Public Administration Advising Services Office. Completed forms must be submitted by the date published for each semester in the Schedule of Courses. Advising Services will conduct a degree check following the application deadline. However, students are strongly urged to request a preliminary degree check prior to their final semester so that possible deficiencies in degree requirements can be identified early.

**Minimum Hours**  
Students pursuing a Bachelor of Science in Business Administration or Bachelor of Science in Economics must complete a minimum of 122-135 semester hours (depending upon degree program) in academic subjects and all required courses for their degree program. These hours exclude physical education courses numbered 100-199 and other non-academic credits (all remedial course work including Reading, English, and Math courses numbered 100 or below). A minimum of 54 semester hours in non-business courses together with a minimum of 54 semester hours in business courses are required for graduation. Students pursuing a second bachelor's degree must be admitted to the College of Business and Public Administration in degree status, must earn a minimum of 30 hours beyond their last degree and fulfill all program and GPA requirements of the second degree.

**Catalog Year Policy**  
Students must fulfill the degree requirements stated in the catalog in effect at the time of their admission to the College of Business and Public Administration provided they have not had a break in enrollment of two or more calendar years. If a student has a break in enrollment of two or more calendar years, the student must apply for readmission to the College of Business and Public Administration and, if admitted, will be subject to catalog requirements in effect at the time of readmission. Therefore, students need to schedule an appointment to be advised immediately upon readmission to the College of Business and Public Administration. Students may elect to follow the most recent degree program requirements established subsequent to their initial entry in the College of Business and Public Administration. The University reserves the right to issue and require immediate

compliance with the new requirements as may be needed to respond to certification, licensure and accreditation issues. Any exceptions must be approved by the CBPA Undergraduate Studies Committee.

**Grade Point Average**  
Candidates for the Bachelor of Science in Business Administration and the Bachelor of Science in Economics must achieve a 2.5 University GPA and a 2.5 GPA in all major courses

**Residence Requirements**  
Students must complete a minimum of 60 hours at a four-year college and at least 30 of the last 36 hours enrolled in the U of L College of Business and Public Administration in order to receive a degree from the University of Louisville.

Additionally, transfer students must take a minimum of 12 credit hours in their major within the CBPA.

**Senior College Hours**  
Fifty semester hours of required and elective courses must be completed at the senior college (300/400) level. Note that the number of the course, not the student's classification, determines whether or not a course is senior-level.

**Other Stipulations**  
All incompletes must be removed by the end of the final semester. All tuition, fees, fines, and other charges must be paid in full prior to graduation.

**Graduation with College Honors**  
Candidates for the Bachelor of Science in Business Administration and Bachelor of Science in Economics may receive their degree with honors, high honors, or highest honors by meeting the following criteria upon completion of their final semester.

**Degree with Honors:** requires a 3.5 University GPA and a 3.5 GPA in the major.

**Degree with High Honors:** requires a 3.75 University GPA and a 3.75 GPA in the major.

**Degree with Highest Honors:** Students may graduate with highest honors with or without a thesis project.

1. **With Thesis Project:** requires a minimum of 3.75 University GPA and a minimum 3.75 GPA in the major at the beginning of the semester in which the student plans to graduate. The 3.75 GPA minimums must be maintained through the final semester prior to graduation. In addition, the student must write a thesis in his or her major, according to the following procedures:

- a. Prior to the beginning of the student's final semester, he or she must contact the discipline Department Chair and initiate a request to be a candidate for graduation with highest honors.
  - b. The Chair will establish an Honors Committee of three faculty members. In consultation with the Honors Committee, the Chair will prepare a schedule of activities to help the candidate complete the thesis in a timely manner.
  - c. The Honors Committee will consult with the candidate and agree on a topic. The candidate will prepare the thesis according to the general requirements set up by the Honors Committee. Minimum expectations include a typed manuscript that strictly follows the rules of English grammar.
  - d. The candidate will submit the final draft of the thesis by the deadline set out in the initial schedule of activities. The Honors Committee will review the thesis on the basis of grammatical accuracy, substantive contribution, and response to the Committee's input. If the Committee chooses, it may conduct an oral examination of the candidate.
  - e. After reviewing the thesis, the Honors Committee will forward a positive or negative recommendation as well as a copy of the thesis to the Chair. To be acceptable, the thesis must be approved by all three members of the Honors Committee with the concurrence of the Chair. The candidate who disagrees with the Honors committee recommendation may appeal to the CBPA Undergraduate Studies Committee. The thesis, along with the recommendations of the Honors Committee and Chair, will be forwarded to the Associate Dean's office no less than three weeks before the end of the semester in which the candidate is to graduate. It will be retained there in either a public or confidential file, as designated by the candidate.
2. Without Thesis Project: requires a minimum 3.90 University GPA and a minimum 3.90 GPA in the major.

**Note:** *Students pursuing a double major must have the appropriate minimum GPA's in both majors to receive their degree with honors, high honors, or highest honors.*

## Academic Dishonesty

**Student Academic Rights and Responsibilities**  
Every student is expected to be thoroughly familiar with the University's Code of Student Rights and Responsibilities and Student Conduct which can be found in the "General Information" section of this catalog.

Every student is responsible for reading the academic policies in the Undergraduate Catalog and official announcements of the College of Business and Public Administration and for abiding by such regulations.

Specifically, every student is responsible for knowing the grade point averages and program requirements needed for graduation. Students are encouraged to see a CBPA academic advisor to clarify any questions or concerns.

Along with preparing for and attending class, each student has the responsibility to promote high academic standards.

Students are expected to cooperate in all classes with faculty members to achieve an optimal learning environment. Inappropriate classroom behavior may result in the student being withdrawn from the course, and potentially assigned academic penalties. Inappropriate classroom behavior will be dealt with in the same manner as academic dishonesty.

The CBPA will not tolerate academic dishonesty. The CBPA has a strong policy of academic discipline for action against students who commit academic dishonesty or conduct themselves inappropriately in the classroom. A proven case of academic dishonesty will normally result in the student being denied admission to or dismissed from the CBPA.

Academic dishonesty is defined by the Code of Student Conduct in the Undergraduate Catalog. Its definition pertains to but is not limited to cheating, fabrication, falsification, multiple submission, plagiarism, and complicity. It is the student's responsibility to maintain high standards of ethical conduct, intellectual integrity and to be familiar with the definition of academic dishonesty.

As evidence of the seriousness with which the CBPA regards these matters, academic dishonesty allegations are handled in accordance with CBPA Procedures for Dealing with Academic Dishonesty.

## Procedures for Dealing with Academic Dishonesty

1. When an academically dishonest event is discovered, it is the faculty member's responsibility to determine the appropriate course of action, the associated academic penalty, and to inform the student in a timely fashion of the academic dishonesty allegation. Academic penalties are imposed by the faculty member and include penalties such as:
  - i) resubmission of an alternative assignment or test
  - ii) F on the assignment/test
  - iii) F for the course grade

The severity of academic penalty is commensurate with the academically dishonest event. It is the faculty member's responsibility to determine the academic penalty and if an informal or a formal course of action is required.
2. In cases where an academically dishonest event is deemed inadvertent or inconsequential, the faculty member may choose to resolve the academically dishonest event informally with the student. The informal discourse between the faculty member and the student should address the seriousness in how the CBPA views academic dishonesty, inform the student that it is their responsibility to know what constitutes academic dishonesty, and inform the student that any future academic dishonesty will not be tolerated. Academic penalties in this case should not have a material impact on the student's final grade in the class.
3. In cases where an academically dishonest event requires a material academic penalty, such as assigning an F for a major assignment/test, the faculty member may resolve the matter directly with the student. In this case within a timely and reasonable period, the faculty member must inform the student of the academic dishonesty allegation and present to the student a letter stating the allegation, documenting any associated evidence, and detailing the academic penalty. The faculty member must inform the student that the letter will be placed on permanent file in the CBPA's Dean's Office, and that any subsequent academic dishonesty will likely result in administrative penalties, (see 4f). If the student agrees to the terms of the letter as evidenced by the student's signature on the letter, the faculty member shall forward a copy of the letter to the Department Chair. The Department Chair shall deliver the letter to the Dean's Office and review the academic dishonesty file to determine if the student has committed any previous acts that may require further administrative penalties. The Department Chair shall report to the Dean of the CBPA if further action is needed.
4. When procedures outlined in paragraph 3 are inappropriate, insufficient or unacceptable to either the faculty member or the student the following formal procedures provide due process.
  - a. Except under extraordinary circumstances, within ten school days of informing the student of the alleged academic dishonesty event, the faculty member will prepare a written statement that describes and documents the academic dishonesty allegation. The statement must include all supporting evidence, and the faculty member's recommended academic penalties. The faculty member's statement is to be submitted to the Chair of the Undergraduate Studies Committee, (hereafter referred to as Chair).
  - b. Except under extraordinary circumstances, within fifteen school days of receiving the faculty member's statement, the Chair will provide to the student through registered mail a letter detailing the academic dishonesty allegation. This correspondence will include notice that a hearing to investigate the academic dishonesty allegation is to be scheduled at the earliest possible convenience for all persons involved.
  - c. The hearing will be organized and administered by the Chair. The Chair will appoint a hearing committee, which will consist of the Chair plus two CBPA faculty members that are currently serving on the Undergraduate Studies Committee. The student may be assisted at the hearing by an academic student advisor of his/her choosing. A request for student advisor assistance must be made through written communication to the Chair.
  - d. The student may waive the right to the hearing by admitting to the charge of academic dishonesty in a signed written statement delivered to the Chair of the Undergraduate Studies Committee prior to the date of the hearing.
  - e. At the hearing, the faculty member and the student will each be provided an opportunity to present oral testimony, written evidence, and any other evidence. The burden of establishing the student's guilt is the responsibility of the faculty member making the allegation.

f. Except under extraordinary circumstances, within fifteen school days of the hearing, the hearing committee will render a decision on the academic dishonesty allegation and produce a written report of its findings. The Chair will notify the student and faculty member in writing of the hearing committee's findings. If the student is found to be guilty of the allegation, academic penalties will be imposed, and if appropriate, administrative penalties will be recommended. The hearing committee's decisions on academic penalties are final. All guilty findings will be placed on file under academic dishonesty events with the CBPA Dean's Office. In the case of a guilty finding the Chair will review the file of academic dishonesty events to determine if this is a first or a repeat offense. A repeat offense will likely result in a recommendation for administrative penalties.

Administrative penalties in the case of suspension or expulsion from the CBPA are imposed by the Dean of the CBPA, or by the Provost in the case of suspension or expulsion from the University.

g. In the case of recommended administrative penalties, the Dean of the CBPA shall review the hearing committee's report and issue a decision regarding imposing CBPA administrative penalties and whether any University-wide penalties will be recommended to the Provost. Except under extraordinary circumstances, within 15 school days of receiving the hearing committee's report, the Dean of the CBPA shall notify the student, the faculty member originating the academic dishonesty allegation, and the Chair of the hearing committee of its decision. The Dean of the CBPA shall forward any recommended University-wide penalties to the Provost.

h. If the student fails to appear before the hearing committee, the hearing will be held in the student's absence and a final decision rendered. If the faculty member making the allegation of academic dishonesty fails to appear, the charges will be dropped. Unforeseen and uncontrollable events that prevent an individual's appearance at the hearing will be considered prior to making a final decision.

i. In the case where multiple students are involved with the academic dishonesty allegation, each student will be dealt with individually, but the composition of the hearing committee will remain the same for all students involved with the alleged event.

j. Any student who believes the processing or final disposition of a charge of academic dishonesty is unfair may initiate a grievance under the Academic Grievance Procedure as defined in the Academic Policies and Procedures of the Undergraduate Catalog.

#### Student Grievances

Students who wish to pursue grievances of any kind may consult with the Student Grievance Officer or the Associate Dean of the College of Business and Public Administration who will apprise the student of the policies and procedures regarding grievances. The text of the academic and non-academic student grievance procedures are contained in the "General Information" section of this catalog.

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# Continuing Studies

*Continuing Studies policies and requirements are under revision. Please contact the Continuing Studies office, 852-6706, with any questions about the application of the policies stated below.*

## Admissions Policies

Continuing studies is a non-degree - granting unit that admits adult students who want to begin or return to college as part-time students. Academic advisors work closely with students to help them become eligible for transfer to a degree- granting unit by completing required college-level courses. Advisors provide the academic and support services necessary for student advancement and retention.

Continuing Studies students must fill out an Application for Undergraduate Admission. Transcripts and ACT scores are not required. Students are exempt from the \$30.00 application fee because there is no formal review of credentials.

Continuing Studies students must adhere to the University Code of Student Conduct. The Code of Student Rights and Responsibilities and other policies and rules found in the Student Handbook apply to all students.

Continuing Studies must meet the following criteria unless they petition the Continuing Studies office for exception:

Applicants must be at least 25 years old.

Applicants must self-report that they have a high school diploma or high school equivalency certificate issued by the State Department of Education.

Applicants with previous college work must self-report that they have not been dismissed from their last attended institution of higher education.

Applicants for whom English is a second language must offer proof of English Proficiency.

## Advising Requirements

All Continuing Studies students should arrange for academic advising before they register for each semester.

Advisors meet with students individually to review placement test scores, previous academic work, unit and university academic policies, and academic interests and goals. These academic advising sessions are designed to produce a schedule of courses suited to the needs of each student. Students may schedule an advising appointment by calling (502) 852-6706 or by visiting the Continuing Studies office in 126 Strickler Hall.

## Placement Tests

Continuing Studies students may take placement tests to determine the correct level of course work or to receive credit or advance placement for previous courses taken or areas of study. The placement tests are scheduled through the Testing Center, 310 Davidson Hall, (502) 852-6606. Students with learning or other disabilities that may interfere with placement test accuracy should contact the Disabilities Resource Center (502) 852-6938.

## Transfer Credits

Transfer credits are formally evaluated when students are accepted into a degree-granting unit. Continuing Studies evaluates credits informally to help direct students into proper course work.

## Enrollment

- Students must be admitted to the University and registered for classes by the end of the day on the first day of classes.
- Students may enroll for 6-8 hours in any semester or summer session.
- Students must have a grade point average of 2.0 or better to remain in good standing.
- Students may enroll in undergraduate classes for which they have completed the prerequisites or by faculty permission.
- Undergraduate students may remain in Continuing Studies until they accumulate 24 credit hours.
- Students with 24 credit hours must apply for admission and be accepted by a degree-granting unit of the University if they wish to continue their course work. Units will determine which of a student's previously earned credits will apply to a particular degree or major.

## Academic policies

### University Grade Point Average

The University of Louisville calculates a University Grade Point Average which becomes the standard measure of performance and the official university calculation upon which academic decisions are made. The University Grade Point Average is determined at the undergraduate level, based upon all undergraduate course work taken at the University of Louisville.

Courses numbered below the 100-level (000-099) taken in the 1998 Fall semester or after will not be used in the earned hours or University Grade Point Average calculation.

Continuing Studies students must follow the instructional unit's policies concerning adding or withdrawing from classes, pass/fail grading, incompletes and audits. Academic bankruptcy is not available to Continuing Studies students.

### Academic Standing

Students in good standing must maintain a 2.0 cumulative grade point average (GPA) in all coursework taken while enrolled in Continuing Studies.

Courses numbered below 100 do not figure in the calculation of degree applicable hours or GPA. Failure to attain a 2.0 GPA after two semesters or after the first 12 degree-applicable hours (whichever takes longer) results in Academic Probation. In any subsequent semester, a student whose grade point average falls below 2.0 will be dismissed from Continuing Studies.

Continuing Studies will notify the Registrar's Office when a student is dismissed. The student is responsible for withdrawing from classes in order not to incur any charges.

### Period Out

Students dismissed from Continuing Studies after a fall semester must sit out the following spring semester; students dismissed after a spring semester must sit out the following summer and fall semesters; and students dismissed after a summer semester must sit out the following fall semester.

## Readmission

Students dismissed from Continuing Studies may appeal to the Continuing Studies office for readmission after the appropriate period out. Readmission may also require assessment of the student's academic potential and readiness to return. To apply for readmission, students must complete both an application for admission and a petition form, available in the Continuing Studies office. High school credentials and college transcripts may also be requested for review. The forms must be returned to the office at least one month before the first day of classes for the semester for which readmission is requested.

**Note:** Courses taken at another institution while dismissed from Continuing Studies may not be accepted for transfer credit.

## Normal and Maximum Course Loads

The normal class load for each semester is 6-8 credits. Students with superior scholastic records and/or extenuating situations (e.g., Vocational Rehab, 4C's or military/GI bill) may petition to the Continuing Studies office for an overload. Petition forms are available in the Continuing Studies advising center.

## Federal Veterans Educational Benefits

Students may not be eligible for benefits while enrolled in Continuing Studies. Call Registrar's Office for details.

## Financial Aid

Mailing Address  
Undergraduate Studies  
Continuing Studies  
University of Louisville  
126 Strickler Hall  
Louisville, KY 40292

Telephone Number  
Counseling/Advising  
(502) 852-6706  
FAX  
(502) 852-4184

# Program in Dental Hygiene

The School of Dentistry currently has a B.S. degree proposal under consideration for approval by the Office of the Provost. The program is scheduled to begin with the Fall 2005 entering Dental Hygiene Class. Additional prerequisites not currently listed will be required for this degree. For the latest updated information and to review a complete prerequisite listing once approved, please visit the School of Dentistry website:

[http://www.dental.louisville.edu/future\\_students/hygiene\\_program.htm](http://www.dental.louisville.edu/future_students/hygiene_program.htm) For specific information not covered by the website, contact Student Admissions, School of Dentistry, 502-852-5081.

## Admissions Policies of the Program in Dental Hygiene

### Admissions Policies and Procedures

All applicants should refer to the information included in this catalog relative to general admission policies. Applicants may obtain additional specific information regarding admission to the Associate of Health Science in Dental Hygiene and the professional component of the Bachelor of Science Dental Hygiene Degree by contacting the Dental Hygiene Program. Correspondence should be addressed to the Dental Hygiene Admissions Advisor; Office of Student Affairs, University of Louisville School of Dentistry; Louisville, Kentucky 40292. The telephone number is (502) 852-5081.

Applicants are not restricted by age or sex from entering the program.

### Admissions Requirements:

1. Completion of University of Louisville Undergraduate Application (refer to general admissions requirements)
2. Completion of Dental Hygiene Program Application
3. Completion of REQUIRED prerequisite courses:
  - Introduction to College Writing (ENGL 101)
  - General & Biological Chemistry (CHEM 101 or
  - General Chemistry I (CHEM 201)
  - Anatomy and Physiology I (BSC 260)
  - Anatomy and Physiology II (BSC 261)

- Anatomy and Physiology Lab (BSC 262)
- Speech Communication (COMM 111 or 112)
- Introduction to Psychology (PSYC 201)
- Self and Society (SOC 203) or Principles and Concepts of Sociology (SOC 209)
- Nutrition (HED 303)
- Math 105 or Math III

— *The prerequisite courses are subject to change. Contact the Dental Hygiene Program to obtain the most current listing of prerequisite courses. Applicants must have successfully completed or be currently enrolled in the prerequisite courses. The Admissions Committee may grant permission for a student to take one of the following prerequisite courses during the summer session between the student's first and second year in the dental hygiene program: Speech Communication, Introduction to Psychology, Self and Society or Nutrition. It is important to note that the maximum number of courses for which this exception may be made is ONE. Arrangements to enroll in a missing prerequisite course must be approved by the Dental Hygiene Academic Advisor after a student has been accepted into the dental hygiene program. All prerequisite science courses must have been completed within the past 5 years prior to application to the program.*

4. A grade of "C" or above in college science courses
5. A college grade point average of 2.5 or above

The Committee on Admissions of the Dental Hygiene Program selects applicants for the Dental Hygiene Program. Applications are accepted from October 1 to March 1. All required forms and transcripts must be received by the Dental Hygiene Program by March 1. Students are admitted the Fall Semester only.

Applicants will be informed of the decision of the Committee on Admissions and, if accepted, will be requested to send a \$100 deposit to the School of Dentistry to reserve a place in the class. This amount will be applied as a credit toward the regular registration fee at the time of enrollment. This sum will be forfeited in the event that the student should cancel the reservation in advance or fail to appear for enrollment.

Applicants who wish to pursue the Bachelor of Science Dental Hygiene Degree should note that to qualify for that degree all requirements for the Associate of Health Science in Dental Hygiene Degree must be completed, as well as the requirements listed for the Bachelor of Science-Dental Hygiene Degree. (Refer to curriculums listed for the Associate in Health Sciences in Dental Hygiene Degree and the Bachelor of Science-Dental Hygiene Degree.)

Students planning to work for the Bachelor of Science-Dental Hygiene Degree may complete the baccalaureate degree in the following ways:

1. Complete one year in Arts and Sciences, two years in the professional phase of dental hygiene which leads to the Associate in Health Science Degree, then complete the remaining requirements in the College of Arts and Sciences.
2. Complete all non-professional courses prior to enrolling in the professional phase of dental hygiene, thus earning the Associate in Health Science in Dental Hygiene Degree simultaneously with the Bachelor of Science-Dental Hygiene Degree.

### University Grade Point Average

The University of Louisville calculates a University Grade Point Average which becomes the standard measure of performance and the official university calculation upon which academic decisions are made. The University Grade Point Average is determined at the undergraduate level, based upon all undergraduate course work taken at the University of Louisville.

Courses numbered below the 100-level (000-099) taken in the 1998 Fall semester or after will not be used in the earned hours or University Grade Point Average.

### Transfer Students

Transfer students may be accepted for admittance into the Dental Hygiene Associate Degree Program. Non-professional courses are evaluated for transfer by the College of Arts and Sciences. Professional courses are evaluated for transfer by the appropriate individuals at the School of Dentistry.

### Transfer Credit Policies

The University of Louisville recognizes appropriate course work done at other accredited universities and colleges and accepts that work according to the principles and practices set forth in the American Association of Collegiate Registrars and Admissions Officers Transfer Credit practices and state law. Transfer work that is college-level, academic in nature and earned at appropriately accredited institutions will be accepted and posted as credit earned (i.e., with no grade) and will be accepted as credit toward degree, consistent with policies in effect for resident students. Students must be aware that majors and/or programs may require a minimum of a "C" or better for certain degree requirements. Individual units or programs may set higher standards in accepting transfer grades, which supersede those indicated here. Students should consult the specific catalog section for their enrollment unit.

Transfer credit is given for professional courses in which a student has earned a grade of "C" or above.

Transfer credit is given for professional courses if the course content parallels the course content in the University of Louisville professional course. Each course is considered individually and evaluated by the respective University of Louisville Course Director.

**Advanced Placement Examinations**  
A student who has completed courses at another accredited institution may be awarded advanced placement in the University of Louisville Dental Hygiene Program through advanced placement exams. These advanced placement exams are used primarily to determine the student's level of clinical competency.

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

Mailing Address  
Dental Hygiene  
c/o School of Dentistry  
Health Sciences Center  
University of Louisville  
Louisville, KY 40292

Telephone Numbers  
**Office of the Dean**  
(502) 852-5295  
**Office of Admissions Counselor  
Dental Hygiene Program**  
(502) 852-5081

## CLEP Examinations

Credit may be awarded through the CLEP exam for non-professional courses. The Dental Hygiene Program uses the same criteria as the College of Arts and Sciences for awarding course credit through the CLEP.

## Catalog Years Definition for Unit

The curriculum of the Dental Hygiene Program, including appropriate changes in course content, is routinely revised to reflect current changes in the delivery of dental services. Therefore, the catalog years must correspond with the requirements specified at the time of the student's graduation. This assures that the dental hygiene graduate has the level of competency necessary to enter the dental hygiene field at the time of his/her graduation.

## Post-Graduate Dental Hygiene Studies

The course DAUX 300: Post-Graduate Hygiene Studies is available for graduates from accredited dental hygiene programs. This course is for hygienist who have not maintained a current license to practice dental hygiene, for reentry into the practice of dental hygiene. Information regarding the Post-Graduate Dental Hygiene Studies may be obtained by contacting the Director of the Dental Hygiene Program.

## Advising Requirements and Registration Information

### Advising

Academic advising is available through both the Dental Hygiene Program and the College of Arts and Sciences. The Dental Hygiene Program has an admissions counselor as well as a designated faculty member who serves as the academic advisor for students once they are enrolled in the Dental Hygiene Program. The admissions counselor and the academic advisor work closely together to insure that both applicants and enrolled students are apprised of the academic requirements of the dental hygiene program. It is recommended that applicants make an appointment with the admissions counselor (852-5075) early in the application process. These advising sessions are limited in both number and size; therefore, it is recommended that applicants call the Dental Hygiene Program early in the application process to be included in an academic advising session.

Academic advising relative to the Bachelor of Science-Dental Hygiene Degree is provided by the designated academic counselor in the College of Arts and Sciences Advising Office. Dental hygiene applicants and/or students needing academic advising through that office should request an appointment with the advisor responsible for advising students majoring in dental hygiene.

### Registration Procedures

Dental Hygiene students obtain their registration forms and a schedule of required courses from the Dental Hygiene Program's Academic Advisor.

### Drop/Add And Withdrawal Procedures

Information and assistance regarding Drop/Add and Withdrawal procedures should be obtained through the Dental Hygiene Program's Academic Advisor.

Upon proper documentation of special circumstances, decisions for approval of late complete withdrawals may be made by the appropriate official or committee in the student's enrollment unit, who will notify the instructors involved. Late complete withdrawals are those requested after the deadline to withdraw has passed and before the instructor has assigned a grade. After a grade has been assigned, the instructional unit has the authority to change the grade to a withdrawal.

### Repetition of Courses

Students may repeat to replace a maximum of four (4) courses with grades of F, D, or C. For these four courses, only the last grade attained will be used in the grade point average calculation. A course in which a grade of D or C was originally attained may be repeated only once under the repeat-to-replace option. Students are not required to repeat an F grade unless the course is specifically required for graduation.

Students should be aware that all grades are displayed on the official transcript even after the repeat. All Schools and Colleges within the University will honor any previously granted repeats from other Schools and Colleges within the University.

A repeat form must be filed to activate this option. A course retaken for which this option is not requested, both grades will be used in the grade point average calculation, but students cannot receive double credit in hours required for the degree.

The authority to grant permission for a student to repeat a professional course lies with the Dental Hygiene Academic Achievement Committee.

## Audited Courses

Audited courses do not earn credit. The transcript will indicate that the course was taken as an audit; however, auditors need to discuss with the faculty member offering the course the work expected to warrant the designation on the transcript. Students who have registered as auditors will not receive credit for the course unless their registration has been changed officially from audit to credit by the published deadline for such change.

Students are cautioned that auditing a class cannot substitute for taking the course for credit if that course is part of the credit hour requirement for graduation. In order for a required course to be counted toward a degree, any required course taken as audit must be retaken for credit.

Students are advised to consult with the Dental Hygiene Academic Advisor to determine if registration as auditors will satisfy the intended purposes. Students may enroll for credit in any course which was taken for audit, in a semester subsequent to the semester when the course was audited. If a student takes a course for both audit and credit, the transcript will show both entries.

Audit status is offered only on a space available basis. For that reason, students may not register for a class in an audit status during that period. Students may register for classes in audit status during regular registration (after early registration financial cancellations) and then only with written approval of the instructor of the course. Students are allowed to change from audit to graded status or from graded status to audit status at any time from the beginning of regular registration through the last day to add a class so long as they have approval from the course instructor. Students are advised that such approval is the instructor's prerogative and that the audit status may have implications for financial aid eligibility. Any change of status must be submitted on the form provided in the Schedule of Courses. Forms must be turned in to the Registrar's Office by the required date.

### Pass/Fail Courses

Students in the four-year dental hygiene baccalaureate program should consult the policies outlined by the College of Arts and Sciences regarding taking courses for Pass/Fail.

Course Directors of clinical or professional didactic courses may use the pass/fail system of grading their courses with the approval of the Director of Dental Hygiene. The dental hygiene student does not have an option to take professional courses other than those designated as pass-fail on the pass/fail basis. If the pass/fail system is used, the grade will not be calculated in the cumulative GPA.

## Normal and Maximum Course Loads

The normal program of studies in the fall and spring semesters is 14-16 semester hours, and the maximum of 17 semester hours. Students who have superior scholastic records may be permitted by the Program Director to carry 18 semester hours. The maximum load in summer sessions is 3 semester hours for the first term and 7 semester hours in a second term. Students on academic probation and students admitted on limited load are limited to 12 hours in addition to a physical education course during the fall and spring semesters and to a total of 10 semester hours during the summer session.

## Academic Policies

### Concurrent Registration in Another Institution

A student may choose to complete a nonprofessional course at another institution. Specific permission must be given to take a professional course at another institution and must be granted prior to the student enrolling in the professional course at another institution. The student may enroll in one of the institutions in the Metroversity on a concurrent basis and/or the student may enroll as a visiting student at another institution during the summer sessions between the first and second years of the Associate Degree Program.

### Academic Bankruptcy

University of Louisville students who have been out of higher education for at least two years and then return to achieve a 2.50 grade point average or higher in the first 12 degree-applicable credit hours are eligible to apply for Academic Bankruptcy. All degree-applicable courses taken during the term in which the 12 hour minimum is attained will be considered in determining eligibility for bankruptcy. Under this policy, students (if accepted) could remove one or more consecutive semesters of college work from their grade point average and semester hours completed calculation.

University of Louisville students are advised that while bankrupted course grades are removed from the calculation, the course work does remain a part of their permanent record and that the bankrupted work may be considered for financial aid purposes, NCAA purposes, and may be evaluated if applying for honors or graduate/professional study. Additionally, students must be aware that Academic Bankruptcy is an internal policy and the University of Louisville cannot guarantee how the work will be viewed by another university should the student choose to transfer. Students wishing to examine this option are advised to see an advisor in their enrollment unit for details of the process. Bankrupt semesters will not apply toward enrollment semesters when determining catalog year. Bankruptcy may be declared only once.

#### Class Attendance Policies

Class attendance policies are determined by the individual instructors. Instructors must announce policies relevant to attendance and, if announced, may use attendance and/or participation in discussion, field work, laboratory work in determining grades.

When the absences of students interfere with their work in a course, instructors may recommend to the Program Director that the students be dropped from the classes. If this recommendation is approved, students will be withdrawn and assigned the grade "W."

Instructors are not required or expected to investigate prolonged absences. Students who intend to drop a class, but who stop attending without processing a Change of Schedule Form will remain on the class roster, and instructors will assign these students the grade "F."

## Academic Achievement Guidelines

### I. Introduction

These Dental Hygiene Academic Achievement Committee Guidelines (DH-AAC Guidelines) have been developed by the Dental Hygiene (DH) faculty of the School of Dentistry to provide students and faculty with pertinent information about the academic and professional standards of the School and about the process and procedures used to review student performance. These guidelines apply only to students enrolled in the Dental Hygiene (DH) Program.

These DH-AAC Guidelines shall be the principal standard used in determining the status of each DH student. Approved motions shall constitute recommendations to the Associate Dean for Academic Affairs through the Chair of the Dental Hygiene Academic Achievement Committee.

Other documents which serve as guidance for non-academic reviews include:

- Ethical problems ("Procedures to be Followed When a Breach of Ethical conduct is Alleged", June, 1977)
- Clinical protocol problems ("Clinical Review Board", June 20, 1986)
- ULSD Clinic Manual
- Existing documents are amended and new documents drafted as specific needs arise.

### II. Committee Organization and Operation

#### A. Composition of the Dental Hygiene Academic Achievement Committee

The Academic Achievement Committee is the committee with authority to make recommendations to the Associate Dean for Academic Affairs regarding DH student performance. The committee shall be referred to as the DH-AAC throughout this document.

#### 1. Academic Achievement Committee (AAC).

The DH-AAC shall be composed of all dental hygiene course directors and full-time faculty members of the dental hygiene program. The Chairperson of DH-AAC shall be elected by the DH faculty and serve for a period of 3 years.

#### B. Functions of the DH-AAC

The Dental Hygiene Academic Achievement Committee (DH - AAC) shall function:

1. to review the academic progress of all DH students;
2. to make recommendations to the Associate Dean for Educational Programs for:
  - a. students in real or potential academic difficulty, or
  - b. students who have demonstrated outstanding ability, and;
3. to propose academic policy development or modification to this document to the Dental School Council through the Faculty Senate.

### C. Meetings

The DH - AAC shall meet on a regular basis at the end of each term (prior to the beginning of the next term). It may also meet during the course of the term (midterm) to evaluate progress of dental hygiene students and at additional times to act on special interim business, (e.g. progress of remediation, removal of "X" grades, etc).

### D. Scheduling and Notification of Meetings

A projected schedule of DH-AAC meetings is announced at the beginning of the academic year by the chairperson. Selection of the actual dates, times, and locations for Standing Committee meetings is made by the chairperson in consultation with the members of the DH-AAC.

### E. Meeting Procedures

The DH - AAC shall meet to discuss student progress in the curriculum to that point in time. Written or electronic notification of meetings shall be circulated to all course directors, department chairs and DH - AAC members of the School of Dentistry by the chairperson at least five (5) working days prior to a meeting.

The DH - AAC will deliberate and make recommendations to the Associate Dean for Educational Programs regarding:

1. Promotion
2. Direct student counseling
3. Remedial work based on departmental recommendation(s)
4. Repetition of a year or part of a year
5. Probation
6. Dismissal
7. Leave of Absence
8. Modification or development of Academic Policy

### F. Quorum

A majority of members of the DH - AAC present shall constitute a quorum.

### G. Minutes

The minutes of the DH - AAC are confidential and shall not be circulated. Faculty may review DH - AAC minutes held in the office of the Associate Dean for Educational Programs. A student may have access only to those portions of the minutes which deal directly with the processes affecting that individual.

### H. Academic Status Report

A student academic status report shall be distributed by the Chairperson of DH-AAC to faculty and the department chair of Periodontics, Endodontics and Dental Hygiene following DH-AAC meetings.

### I. Committee Voting Rules

Each member of the DH - AAC shall be entitled to one vote with the exception of the chairperson. The chairperson is entitled to vote only in the event of a tie vote on the part of the other committee members. Recommendations must be approved by a majority of voting members present.

### III. Review of Dental Hygiene Student's Academic Performance

#### A. Promotion of Students

"Promotion" refers to academic progression through consecutive semesters as well as consecutive academic years.

#### B. Determination of Grade Point Average (GPA)

The following grade point scale is utilized for all courses in the DH curriculum:

A+	4.0
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D+	1.3
D	1.0
D-	0.7
F	0.0

"P/F", "H", "X", and "I" grades shall not be used in calculating a GPA.

All courses are assigned credit hours by the Dental Hygiene Curriculum Committee. By multiplying the credit hours for each course by the grade points earned in the course, the total number of academic points for the semester's course work is determined.

The cumulative GPA is calculated by adding all academic points earned in the dental hygiene curriculum and dividing by the total number of credit hours taken including failures.

#### C. "F" Grades

1. The "F" grade indicates failure to achieve at an acceptable level.
2. A student may not graduate without passing all required courses including electives in which they are enrolled.
3. A student cannot receive "DEAN'S LIST" or "DEAN'S SCHOLAR" recognition for a term in which an "F" grade is received.
4. The mechanism (procedures, schedule, completion deadlines, etc.) permitted for the remediation of an "F" grade shall be determined by the course director and program director, subject to the approval of the Dean.



5. A course taken at another institution to remediate an "F" grade must be approved in advance by the course director in which the failure occurred.
6. A course director may not average old and new final grades in developing and reporting a new final grade for a student who is making up an "F" grade. The new grade must be based entirely upon the student's performance in the "new" course.

**D. "I" (Incomplete) Grades and "X" Grades**

The "I" grade represents insufficient information to permit proper evaluation of the student's performance. The "X" grade means that the course work has not been completed due to the nature of the course (availability of patients, etc.). A student cannot graduate with an "I" or an "X" grade. The following shall determine the disposition of the "I" and "X" grade:

1. An unresolved "I" grade automatically shall be changed to an "F" grade at the end of the next regular semester.
2. All conditions associated with the removal of the "I" grade must be conveyed to the student and Associate Dean for Academic Affairs in writing within ten (10) working days after the grade has been officially recorded.
3. An "X" grade shall be changed to a final grade upon completion of the requirements of the course.

**E. Honors/Pass/Fail (HPF) Grades**

Course directors of clinical disciplines may use Pass/Fail or Honors/Pass/Fail systems of grading in preclinical or clinical courses by permission of the Curriculum Committee. (When major courses are graded on a Pass/Fail or other non-traditional system, the DH - AAC may require other evidence of student achievement for review by the DH - AAC during student promotion meetings.) If either of these systems is used, the course grade shall be included in the computation of the GPA.

**F. Interception and Prevention of Academic Difficulties**

The Chairperson of DH-AAC shall request progress reports from each course director. Each progress report shall list all students' progress and identify those who are in academic difficulty and, to the degree possible, the reason(s) for the problem(s). These data shall be shared with the DH Director, Departmental Chairperson and the Associate Dean for Educational Programs. The Office of Student Affairs shall provide counseling and tutoring services to the degree possible.

**G. Criteria for Honors**

The DH-AAC shall identify students who are worthy of recognition for academic excellence at the end of the Fall and Spring semesters. The following guidelines shall be followed in making recommendations to the Dean.

1. The DH - AAC shall recommend that each student who has a cumulative GPA of at least 2.50 and earns a current term GPA of 3.30 or above be placed on the DEAN'S LIST for that term and receive a congratulatory letter from the Office of the Dean.
2. The DH - AAC shall recommend that each student who has a cumulative GPA of at least 3.00 and earns a current term GPA of 3.80 or above be designated as a DEAN'S SCHOLAR for that term and receive a congratulatory letter from the Office of the Dean commending him/her for this exceptional level of scholarship.
3. In order to be eligible for recommendation for DEAN'S LIST or DEAN'S SCHOLAR recognition, a student may not have an "F" grade, a "D" grade or a "W" in a required course during the term just completed. Also, the student may not have an "I" or "X" grade unresolved from any of the previous semesters (excluding the term just completed).

**H. Criteria for Graduation**

1. The student must have completed all required courses and have no outstanding "I", "X", or "F" grades.
2. The student must have a cumulative GPA of at least 2.0 in professional courses required for the associates degree.

3. The student must be formally recommended for the associate degree by the ULSD Faculty Assembly and by the Dean, and must be approved for the degree by the Board of Trustees.

**I. Criteria for Probation**

1. A student shall be placed on probation if he/she: (a) receives an "F" grade, or (b) earns a semester GPA below 2.000, or (c) has a cumulative GPA below 2.000 in either professional or nonprofessional courses.
2. A student on probation shall be:
  - a. required to attend all classes/clinics;
  - b. required to attend regular remediation sessions if appropriate;
  - c. expected to remove himself/herself from probational status within one semester or be subject to a performance evaluation hearing; and
  - d. restricted by the Associate Dean for Educational Programs from serving as a class officer or representative on school committees.

**J. Criteria for Dismissal**

1. Each student enrolled in the dental hygiene program whose GPA falls below the minimum cumulative GPAs shown below shall be scheduled for a Performance Evaluation Hearing.

Minimum Cumulative Term	GPA
First year, Fall term .....	2.000
First year, Spring term .....	2.000
Second year, Fall term .....	2.000
Second year, Spring term .....	2.000

2. A student who otherwise fails to meet the professional expectations of the dental hygiene faculty of the School of Dentistry may also be considered for a Performance Evaluation Hearing.

**K. Performance Evaluation Hearing**

The purpose of a Performance Evaluation Hearing is to provide the members of the DH - AAC with an appropriate forum in which to discuss a student's academic problems and provide an opportunity for direct discussions with the involved student. The consequence of the hearing may result in a recommendation to the Associate Dean for Educational Programs.

**L. Hearing Process**

The Hearing Process shall occur as follows:

1. The dental hygiene student shall receive a written notice to appear for a performance evaluation hearing. The hearing shall be scheduled no sooner than seven (7) days following the DH - AAC motion that a hearing is requested. The notice shall include the date, time and location of the hearing and outline the reason for the hearing. The student shall be granted time to prepare for the hearing. A student who wishes to exercise the right to a hearing must submit a letter in writing to the chairperson of the DH-AAC. The DH-AAC must receive such letter in a minimum of 48 hours prior to a hearing date. If the student fails to respond to the chairperson in writing under the time provisions of these guidelines, the student waives the right to appear before the DH-AAC.

2. Prior to the hearing, the student shall be permitted to inspect the student's entire dental school academic record and any other materials upon which the proposed hearing is based.
3. The student shall be permitted to present relevant information and have an advocate present at the hearing. The advocate is limited to another student or faculty member from the University of Louisville School of Dentistry. The advocate may address the DH - AAC only by permission of the Chairperson of the DH - AAC.
4. The DH-AAC may offer, through duly approved motion, any formal recommendation(s) to the Associate Dean for Educational Programs deemed appropriate for the circumstances of a specific student, and consistent with these guidelines.
5. The final decision on student progress and promotion rests with the Associate Dean for Academic Affairs.

**M. Hearing Outcome**

After reviewing a student's academic circumstance under the provision of a performance evaluation hearing, the DH - AAC may make the following recommendations to the Associate Dean for Educational Programs:

1. Dismissal
  - a. A recommendation for the student's dismissal shall be based solely upon the evidence presented at the hearing.
  - b. A recommendation to dismiss a student may include the comment "with preference" or "without preference".
  - c. A recommendation for dismissal without preference reflects a very significant concern over the student's ability to manage the dental school curriculum.
  - d. A recommendation for dismissal with preference reflects the opinion that although the student did not perform well academically, there is the impression that the student possesses the ability to manage the dental hygiene curriculum.
2. Repeat of a Class Year  
Repeat the year means repeat the curriculum and the student may begin classes in the beginning of the next academic year. The repeat of an entire year for the purpose of overcoming academic difficulties shall be considered an option when the degree of academic deficiency warrants such a recommendation. The DH-AAC has the responsibility to evaluate the impact of non-academic problems on the student's academic performance. The AAC shall stipulate the curriculum for students repeating the year prior to the beginning of the academic year.
3. Modified or Decelerated Curriculum  
After reviewing the DH - AAC recommendation, the Dental Hygiene program director, in concert with the appropriate course directors and the department chair, will prepare the special curriculum.
4. Other Recommendations  
The DH - AAC may make other recommendations as set forth in section II, paragraph E.

- IV. Protocol for Revision or Interpretation of AAC Guidelines  
Revisions to the DH - AAC Guidelines may be adopted only by:
  - Majority vote of the DH-AAC Committee; and
  - Approval by the Dental School Council through the Faculty Assembly.

The implementation date of any adopted and approved revisions to the Guidelines shall be the beginning of the next academic year.

The DH-AAC chairperson is responsible for transmitting revised DH- AAC Guidelines to all faculty and students in a timely fashion.

## Student Conduct, Discipline and Grievance Procedures

The University of Louisville expects its students and student organizations to conduct themselves according to generally accepted moral and social standards and to respect the rights and privileges of others. Students who enroll in the University of Louisville Dental Hygiene Program are subject to the Rules and Regulations of the University.

### Ethical Violations

The Dental Hygiene Program expects high ethical standards. As future professionals, students should exhibit appropriate professional ethical behavior in all academic and clinical matters.

A student may be dismissed from school because of unethical conduct. A formal procedure has been established to review cases where a student is accused of unethical behavior.

### Drug Use Prohibited

In accordance with the statutes of the Commonwealth of Kentucky, the possession, use or distribution of hallucinogenic and/or illegal drugs will not be tolerated on University property. Infractions will result in disciplinary action by the University which may lead to suspension or dismissal from the Dental Hygiene Program.

### Students Rights

Students who believe they have been treated unfairly, discriminated against, or have had their rights abridged may initiate a grievance in accordance with procedures established in the University's Redbook. Students would first seek to have the matter resolved through informal discussion and through administrative channels. Information about processing a grievance may be obtained from the School of Dentistry's Associate Dean for Educational Programs.

## General Requirements for Baccalaureate Degrees

The Bachelor of Science-Dental Hygiene Degree is granted through the School of Arts and Sciences and Requirements are established by that School.

**Application for Graduation**  
All students must submit an application for the respective degree to be awarded. Application for the Associate Degree is made through the Department of Periodontics, Endodontics and Dental Hygiene Office.

**Graduation and Degree Requirements**  
A candidate for the Associate of Health Science in Dental Hygiene must have fulfilled the following requirements:

- Satisfactory completion of the required courses or equivalent courses with a 2.00 cumulative GPA in both professional and required non-professional courses.
- Compliance with the faculty requirements as to professional fitness and ability,
- Discharge of all financial obligations to the University.
- Completion of the final year of the professional phase of the Dental Hygiene Program in residence at the University of Louisville.

**Graduation with Honors**  
Only students completing the four-year Dental Hygiene Program, offered through the College of Arts and Sciences, are eligible to graduate with honors.

## Program in Dental Hygiene

**Program Director**  
Susan J. Crim, R.D.H., M.S.

**Faculty**  
Janice Butters, R.D.H., M.P.H., Ed.D.  
*Associate Professor*  
University of Tennessee  
University of Louisville  
Susan W. Grammer, M.Ed., *Associate Professor*  
University of Louisville  
Linda H. Lewis, B.S., M.Ed.  
*Assistant Professor*  
University of Louisville

**Other Faculty**  
The Program utilizes instructors from other units in the University. The following faculty of the Schools of Dentistry and Medicine are Course Directors in the Dental Hygiene Program:

Thomas J. Clark, D.M.D.  
*(Clinical Associate Professor,*  
Department of Surgical and Hospital Dentistry)  
University of Louisville  
Alan R. Gould, D.D.S.  
*(Professor of Oral Pathology,*  
Department of Surgical and Hospital Dentistry  
School of Dentistry)  
University of California at Los Angeles  
Margaret Hill, D.M.D.  
*(Associate Professor,*  
Periodontics, Endodontics, and Dental Hygiene,  
School of Dentistry)  
University of Louisville  
Regan L. Moore, D.D.S., M.S.D.  
*(Associate Professor,*  
Periodontics, Endodontics, and Dental Hygiene  
School of Dentistry)  
Ohio State University  
Robert H. Staat, Ph.D.  
*(Professor, Biological and Biophysical Sciences*  
School of Dentistry)  
University of Minnesota  
Michael T. Tseng, Ph.D.  
*(Professor, Anatomical Sciences and Neurobiology*  
School of Medicine)  
State University of New York at Buffalo  
Randall Vaught, D.M.D.  
*(Assistant Professor, Diagnosis and General Dentistry*  
School of Dentistry)  
University of Louisville  
Leonard C. Waite, PhD  
*(Professor of Pharmacology* School of Medicine)  
University of Missouri

# College of Education and Human Development

## Admission to the College of Education and Human Development

Students pursuing a program leading to a degree offered by the College of Education and Human Development should apply at the Admissions Office of the University for admission to the College of Education and Human Development. Students admitted to the College of Education and Human Development must apply for readmission if they do not attend for two or more years.

**Admission Requirements**  
Students applying with less than 24 hours:

*Admit in "good standing if:*

1. High School grade point average is 2.50 or above AND
2. ACT Composite score is 21 or above AND
3. Kentucky pre-college curriculum is successfully completed AND
4. If college credit has been earned, the cumulative college grade point average (based on degree applicable credits) is 2.25 or above.

*Admit in \*\*conditional status if:*

1. High School grade point average is between 2.25 - 2.49 OR
2. ACT Composite score is between 16 and 20 OR
3. Kentucky pre-college curriculum is incomplete

### OR

If cumulative college grade point average (based on degree applicable credits) is between 2.0 - 2.24.

**Students applying with 24 hours or more:**

*Admit in "good standing if cumulative college grade point average (based on degree applicable credits) is 2.25 or above.*

*Admit in \*\*conditional status if cumulative college grade point average (based on degree applicable credits) is between 2.00 and 2.24.*

**\*Good Standing Status Policy**

1. Students in good standing must maintain a cumulative grade point average (based on degree applicable credits) of 2.25 or above.
2. Students in good standing whose cumulative grade point average (based on degree applicable credits) falls below 2.25 will be placed on academic warning.

### \*\*Conditional Status Policy

1. Students in conditional status may enroll in no more than 14 semester hours in a semester (9 in the summer).
2. Students in conditional status who achieve a cumulative grade point average (based on degree applicable credits) of 2.25 or above will be placed in good standing status.
3. Students in conditional status whose cumulative grade point average (based on degree applicable credits) is below 2.25 after the conditional status semester will be placed on academic warning.

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

### Admission in Special Status

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

### Transfer Students

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

1. Obtain forms from the Admissions Office, University of Louisville, for admission to the College of Education and Human Development.
2. Complete the application for admission to the College of Education and Human Development and return it to the Admissions Office. In addition, students seeking admission in the Occupational Education program or the Early Elementary Education program, complete the application for admission to Teacher Education and return it to the Education Advising Center, College of Education and Human Development, Dean's Office (forms are available in the Education Advising Center).
3. Request that the registrar of each institution of collegiate rank previously attended forward to the Admissions Office, University of Louisville, an official transcript of all work undertaken. (A student who fails to declare previous attendance at another institution may be dropped for two subsequent semesters.)

4. Schedule an appointment in the Education Advising Center to have a teacher certification and/or degree program prepared.

**Additional Requirements for Occupational Training and Development Applicants:**

Applicants applying for admission to a program in Occupational Training and Development must be screened by the program faculty before an admission decision is made. In addition to the following criteria, students must meet the admission standards listed above.

1. Prior extensive and documented work experience or equivalent experiences as determined by the Occupational Training and Development program faculty or technical coursework in a training area or occupation is required.
2. A minimum of 2,000 hours of supervised work experience in the occupation to be taught is required.

For the B.S. in Occupational Training and Development with a concentration in career and technical education, formal admission to Teacher Education is required. The applicant must be employed as an occupational education teacher. Work experience requires two of the four years to have occurred within the past five-year period.

1. Students who plan to pursue an undergraduate teacher education program should meet with an academic advisor in the College of Education and Human Development to discuss the application process and admission to the program.
2. All candidates must submit a complete teacher education application to the College of Education and Human Development by the deadline specified in the application packet.
3. Students should request a teacher education application packet from the College of Education Building, Room 124.
4. The admission requirements are subject to change. Contact the Education Advising Center for the most current information.

Admission to Undergraduate Teacher Education Programs

### B.S. in Early Elementary Education

1. Students who plan to pursue an undergraduate teacher education program should meet with an academic advisor in the College of Education and Human Development to discuss the application process and admission to the program.
2. All candidates must submit a complete teacher education application to the College of Education and Human Development by the deadlines specified in the application packet.
3. Students should request a teacher education application packet from the College of Education and Human Development Advising Office located in the Education Building, Room 124.
4. The admission requirements are subject to change. Contact the Education Advising Center for the most current information.
5. Please note that admission to teacher education programs is competitive. The admissions committee will be assessing the qualifications of each applicant and his/her potential for success in the program.

Below is a partial list of minimum requirements to apply for admission. Contact the Education Advising Center for a complete listing of admission requirements and application deadlines and forms.

1. Transcripts from all colleges/universities attended must be submitted.
2. Submit scores which demonstrate basic competencies on one of the following tests:
  - a. ACT: A composite score of 21 or higher is required.
  - b. SAT: A combined score of 990 or higher is required.
  - c. PPST (Pre-Professional Skills Test): Minimum scores on all 3 subtests: Reading - 320; Mathematics - 318; and Writing - 318.
3. An overall grade-point average of no less than 2.75 on a 4.0 scale.

Mailing Address  
College of Education and  
Human Development  
Belknap Campus  
University of Louisville  
Louisville, KY 40292

Telephone Numbers  
Office of the Dean  
(502) 852-6411  
Education Advising Center  
(502) 852-5597  
Web Address  
www.louisville.edu/edu

In addition to the admission requirements listed above, students seeking the B.S. in Early Elementary Education with P-5/P-12 LBD certification must successfully complete EDEM/SD 201, EDSP 180, EDSP 181, EDEM 305, AND MATH 151/152 with a GPA of 3.0 or higher average in these 6 courses.

For students seeking the B.S. in Early Elementary Education with Birth-Age 5 certification, these four courses must be completed with a average GPA of 3.0 or higher: EDEM/SD 201, EDSP 180, EDSP 181, and EDEM 305.

## Advising Requirements

Students entering degree and/or teacher certification programs must schedule an appointment to see an advisor in the Education Advising Center to have a degree and/or teacher certification program prepared. Students seeking a bachelor's degree from the Department of Health Promotion, Physical Education and Sport Studies or from the Department of Teaching and Learning are advised in the Education Advising Center until 60 hours have been earned. After the completion of 60 hours students are advised by department faculty. Students seeking a degree in Occupational Training and Development are advised by faculty after a program has been prepared by the Education Advising Center. Students are encouraged to see their faculty advisor each semester prior to registration. Office hours for faculty advisors are posted in each department.

## Academic Policies of College of Education and Human Development

**University Grade Point Average**  
The University of Louisville calculates a University Grade Point Average, which becomes the standard measure of performance and the official university calculation upon which academic decisions are made. The University Grade Point Average is determined at the undergraduate level, based upon all undergraduate course work taken at the University of Louisville. Courses numbered below the 100-level (000 - 099) taken in the 1998 Fall semester or after will not be used in the earned hours or University Grade Point Average calculation.

Transfer students applying directly for admission to the College of Education and Human Development or for admission to Teacher Education will be evaluated for admission on the basis of the cumulative grade-point average of all credit earned (transfer and U of L credit).

Students applying for admission to the College of Education and Human Development or for admission to Teacher Education from another unit of the University after earning credit in another institution will be evaluated for admission on the basis of all credit earned (transfer and U of L credit).

The cumulative grade point average of all credit earned (transfer and U of L credit) will be the grade point average in all decisions relative to selection and admission.

For information regarding grade point average policy for graduation with honors, see page 55.

**Enrollment Standards**  
Enrollment units may establish grade point average standards that exceed the minimum grade point average requirements of the University. Students are strongly encouraged to familiarize themselves with standards of their unit. Should an undergraduate student fail to meet the requirements of their enrollment units, they may be subject to enrollment restrictions, course repetition requirements, other corrective interventions, and ultimately, dismissal from their enrollment unit. A student who is dismissed from their enrollment unit may seek immediate transfer to an enrollment unit for which their cumulative grade point average is acceptable.

**Transfer Credit Policies**  
It is the policy of the University of Louisville to accept all academic courses in which credit has been earned at any other accredited college or university. The amount of credit to be transferred will be determined by a transcript evaluation completed by the Office of Transfer Services, and is referred to as matriculation credit. Quality points earned at another institution will not enter into calculation of the University-wide grade point averages. The decision to accept a transferred course in fulfillment of a program requirement (i.e., degree credit) will remain the prerogative of the College of Education and Human Development.

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

A transfer student must earn at least sixty (60) semester hours applicable toward the baccalaureate degree at a fully accredited four-year college or university. Thirty (30) of the last thirty-six (36) semester hours must be earned at the University of Louisville.

When a transcript from an accredited institution records credit granted for nontraditional educational experience (such as credit by examination, by correspondence, or by extension), such credit will generally be allowed, but may not exceed 24 semester hours. No further evaluation is usually necessary, provided that the student has earned 30 or more semester hours in residence at the certifying institution.

**Transfer Grade Acceptance**  
The University of Louisville recognizes appropriate course work done at other accredited universities and colleges and accepts that work according to the principles and practices set forth in the American Association of Collegiate Registrars and Admissions Officers Transfer Credit and state law. Transfer work that is college-level, academic in nature and earned at appropriately accredited institutions will be accepted and posted as credit earned (i.e., with no grade) and will be accepted as credit toward degree, consistent with policies in effect for resident students. Students must be aware that majors and/or programs may require a minimum of a "C" or better for certain degree requirements. Individual units or programs may set higher standards in accepting transfer grades, which supersede those indicated here. Students should consult the specific catalog section for their enrollment unit.

**Transfer Equivalency Determination**  
Transfer equivalencies are determined by the instructional unit or the "best fit" unit as determined by the Office of the University Provost.

**Credit for Non-Traditional Work Conference Work**  
Under certain circumstances, a student may complete a course on an individual basis with an instructor. This is called a course by conference. Course by conference forms are available in the College of Education and Human Development Advising Center. Signatures of the instructor, department chairperson, and dean are required on the form. The approved course by conference form must accompany the student's registration form at the time of registration.

**Independent Study**  
Credit may be earned by independent study with the permission of the dean, department chairperson, and instructor. Independent study forms are available in the College of Education and Human Development Advising Center. The approved independent study form must accompany the student's registration form at the time of registration.

**Awarding of Credit Through Placement Exams**

**Advanced Placement Examinations**  
The College of Education and Human Development awards on the basis of scores on the Advanced Placement Examinations of the College Entrance Examination Board according to the policies set forth by the College of Arts and Sciences. Refer to page 23 for specific information.

**CLEP Examinations**  
The College of Education and Human Development awards credit on the basis of the College Level Examination Program (CLEP) administered by the College Entrance Examination Board according to the policies set forth by the College of Arts and Sciences. Refer to page 24 for specific information.

**Drop/Add Procedures**  
Any student wishing to alter his or her schedule of courses in any way must do so officially through the online registration process or on a drop /add form, available in the Dean's Office. Signatures are not required to drop or add if done before the last official day to drop/add a course. The student may add courses only within the first week of the semester. The deadline date for withdrawal without penalty from a course is at the end of the eighth week into the semester. A grade of "W" will be issued. Each semester the registrar will set the actual date in conformity with this regulation. The Dean's signature and signatures of all instructors are required if a change in schedule is processed after the last official day to drop/add. Failure to complete the withdrawal process may result in a grade of "F" in each course involved.

A student may not change registration, either from credit to audit, or from audit to credit, without the permission of the instructor and the dean, and this change will not be permitted after the eighth week of the semester, or the second week of a five-week summer term.

Appropriate adjustments in these time periods are made for the summer session. All actual deadline dates are published in the Schedule of Courses.

Similarly, a student may not change registration from a pass/fail basis to a letter-grade basis, or from letter-grade to pass/fail, without the approval of the instructor, adviser, and the dean, and this change will not be permitted after the eighth week of the semester.

The Dean of the student's enrollment unit is responsible for processing grade changes, regardless of the school in which the course is actually located.

### Pass/Fail Courses

Any College of Education and Human Development student in good standing may enroll in one non-education course (except COMM 111, 112, 302, and 315; TA 211, 311, 315, 320, 324, and 380; ENGL 101, 102; MATH 151 AND 152, Art 407, HPES 274 and MUSE 525 and any courses in the academic major) each semester on a pass/fail basis. The hours earned are to be counted toward graduation if the student passes. If the student fails, the grade will be treated as an "F" in calculation of the student's academic standing. The student must secure permission of the advisor and the signatures of the instructor for the given course and the dean before taking a course on a pass/fail basis. This policy will not apply to courses taught only on a pass-fail basis.

No changes from letter grade to pass-fail, or vice versa, may be made after the eighth week of the semester.

### Normal and Maximum Course Loads

The normal program of studies is 15 hours per semester. The maximum load is 17 hours. The maximum load for the summer session is 15 hours. Students whose grades have demonstrated their scholastic ability may be permitted by the dean to exceed the maximum. Forms to receive this approval can be secured in the Dean's Office. Students who are admitted in conditional status or are on academic probation are limited to 14 hours during the fall and spring semesters. Students on academic probation are limited to 9 hours for the summer session.

No student may receive credit for a course for which he or she has not regularly registered except by obtaining extramural credit.

A student will receive credit only for the number of hours officially published with a course except in courses that carry variable credit.

No transcript of credit is issued for any student who has unpaid University accounts.

### Making Up Incompletes

A grade of "I" means "work in course incomplete" and carries no quality points until the incomplete is removed, at which time quality points are given according to the grade earned. Work must be completed by the end of the next semester. Otherwise the "I" becomes "F" unless an extension has been granted.

### Class Attendance Policies

The college has no specific requirements concerning class attendance, although individual instructors may announce their individual policies. The absence of a student from a class session in no way relieves the student of responsibility for work covered or assigned during that session.

When the absences of a student interfere seriously with the student's work in a course, the instructor may recommend to the dean that the student be withdrawn from the class. If this recommendation is approved, the student shall be withdrawn from the class and assigned a grade of "W".

### Repeated Courses

Students may repeat to replace a maximum of four (4) courses with grades of F, D, or C. For these four courses, only the last grade attained will be used in the grade point average calculation. A course in which a grade of D or C was originally attained may be repeated only once under the repeat-to-replace option. Students are not required to repeat an F grade unless the course is specifically required for graduation. Since "C" and "D" are passing grades and may be applied toward graduation requirements, the student is advised to weigh carefully the possible advantages of improving his or her standing versus the possible disadvantage of discarding hours already earned. However, a "C" or better is required in all education courses if they are to apply toward teacher certification.

The student who elects to repeat a course under the above regulation should understand that the course can count only once toward graduation. Students should be aware that all grades are displayed on the official transcript even after the repeat. All Schools and Colleges within the University will honor any previously granted repeats from other Schools and Colleges within the University.

A repeat form must be filed to activate this option. For courses retaken for which this option is not requested, both grades will be used in the grade point average calculation, but students cannot receive double credit in hours required for the degree.

Permission will not usually be granted for a student to repeat for higher grades lower level courses in areas, which are sequential in nature.

### Auditing Courses

A student who desires to attend classes without credit may be admitted as an auditor upon the recommendation of the dean and by paying required fees. Students may audit courses only with the permission of the instructor. Audited courses do not earn credit. The transcript will indicate that the course was taken as an audit. Auditors need to discuss with the instructor offering the course the work expected to warrant the designation on the transcript. The instructor may record a grade of W (withdrawal) for a student who did not complete the coursework expected by the instructor. Students who have been admitted to the College of Education and Human Development in regular status and who have registered for the course as an auditor will not receive credit for the course unless their registration has been changed officially from audit to credit by the published deadline for such change. Students admitted to the College of Education and Human Development under the status "Auditors" are not eligible to take courses for credit and they may not change their class registration from audit to credit.

Students are cautioned that audited courses cannot be used to meet graduation requirements (either as an elective or as a specific graduation requirement). In order for a required course to be counted toward a degree, any required course taken as audit must be retaken for credit. Students are advised to consult with the College of Education and Human Development Advising Center or the faculty adviser in their major department to determine if registration as auditors will satisfy the intended purposes. Students may enroll for credit in any course which was taken for audit, in a semester subsequent to the semester when the course was audited, provided those students have been admitted to the School on a basis that confers eligibility to take courses for credit. If a student takes a course for both audit and credit, the transcript will show both entries. The deadline for changing from credit to audit status or audit to credit status in a course, is the University deadline for registering in any given semester. Students may not enroll to audit a course during pre-registration.

### Academic Bankruptcy

Academic bankruptcy allows students who are returning to college after remaining out for an extended period to void one or more consecutive semesters of previous University of Louisville coursework.

If the student meets the following criteria and if the College of Education and Human Development Standards and Admissions Committee believe there are extenuating circumstances which warrant such action, the committee may rule the student eligible to declare academic bankruptcy.

To be eligible to apply for academic bankruptcy the student:

- Must not have attended any college or university during a period of 2 calendar years immediately preceding this readmission; AND
- Must state in writing the intention to declare academic bankruptcy, specifically designating the term or consecutive sequence of terms to which the bankruptcy process is to apply; AND
- Must be admitted to the College of Education and Human Development, either routinely or by action of the Standards and Admissions Committee.

The student must attain at least a 2.50 quality point standing in all degree applicable courses while attempting the first 12 hours after readmission. (All courses taken during the term in which the 12-hour minimum is attained will be considered in determining eligibility for bankruptcy.) After these 12 hours have been attempted, the student must petition the Standards and Admissions Committee for academic bankruptcy, designating the term or consecutive sequence of terms to which the bankruptcy process is to apply.

The voided grades and credit hours will not be considered for degree requirements or quality-point computations but will remain on the student's transcript. Academic actions such as probation or dismissal, recorded at the end of the voided terms, will also remain.

- No student may declare academic bankruptcy more than once.
- No student may apply for both academic bankruptcy and academic forgiveness.
- Bankruptcy semesters will not apply toward enrollment semesters when determining catalog year.
- No person using these bankruptcy procedures shall be eligible to participate in any intercollegiate competition until the specified grades and courses have been declared void.

### Academic Forgiveness

Academic Forgiveness allows currently enrolled students to void one semester of University of Louisville coursework.

If the student meets the following criteria and if the College of Education and Human Development Standards and Admissions Committee believe there are extenuating circumstances which warrant such action, the committee may rule the student eligible to declare academic forgiveness.

To be eligible to apply for academic forgiveness the student:

- Must be currently enrolled in the College of Education and Human Development; AND
- Must submit a petition to the College of Education and Human Development Standards and Admissions Committee requesting academic forgiveness, specifically designating the term to which academic forgiveness is to apply.

The voided grades and credit hours will not be considered for degree requirements or quality-point computations but will remain on the student's transcript. Academic actions such as probation or dismissal, recorded at the end of the voided terms, will also remain.

- No student may declare academic forgiveness more than once.
- No student may petition for both academic forgiveness and academic bankruptcy.
- Forgiven semesters will not apply toward enrollment semesters when determining catalog years.

#### Withdrawal Procedures and Policies

Any student wishing to withdraw from courses must do so officially. During published registration and drop/add dates, signatures are not required to drop a course and this may be done through the web or touch-tone registration. However, if a change is processed after the last official day to drop/add, the form must be signed by the dean or his/her representative, and then presented to the Registrar's Office. Failure to complete this official change or withdrawal process may result in a grade of "F" in each course involved.

No student may withdraw from any course during the final eight weeks of a semester, with this exception: the dean may grant a student's request to withdraw or drop subjects because of sickness or conditions beyond the student's control. The grade in that case may be "W." The signatures of all instructors are required.

Upon proper documentation of special circumstances, decisions for approval of late complete withdrawals may be made by the appropriate official or committee in the student's enrollment unit, who will notify the instructors involved. Late complete withdrawals are those requested after the deadline to withdraw has passed and before the instructor has assigned a grade. After a grade has been assigned, the instructional unit has the authority to change the grade to a withdrawal.

The effective withdrawal date is the date on which the student withdraws via the web or touch-tone registration or when the Registrar's Office receives the appropriately signed drop form. This date is used in calculating any refund or tuition reduction due.

#### Concurrent Registration in Another Institution

If a student in the College of Education and Human Development is also registered for courses in another school of the University or elsewhere, the combined program must not exceed 17 hours. Students who carry such additional work outside of this school must secure permission of the deans in both schools and must report the fact and the amount so carried to the registrar during the time for registration. Violation of this regulation may lead to loss of credit for the semester.

#### Undergraduates Taking Graduate Courses

Courses at the 600 level are ordinarily open only to graduate students. With the adviser's approval and special permission of the undergraduate dean, the graduate dean, and the instructor, seniors in their final semester may enter 600-level graduate courses. A "Permission to Enter Graduate Level Courses" form, available in the Dean's Office, must be used for this procedure. When such courses replace courses in the undergraduate curriculum, they cannot be used for subsequent graduate credit. If such course work is beyond the total requirements for the baccalaureate degree, it can be considered for subsequent graduate credit upon the student's admission to the Graduate School.

#### Dean's List and Dean's Scholars

A student carrying in one fall, spring, or summer semester 12 or more semester hours who earns no grade lower than "B," or who has a standing of 3.5 for the semester in spite of one "C," is named to the Dean's List.

A student carrying in one fall, spring, or summer semester 12 or more semester hours who earns all "A's" is named a Dean's Scholar. A student who receives an "incomplete" or a "deferred grade" is not eligible to be named to the Dean's List or as a Dean's Scholar. A student who meets either of these standards in one semester will be awarded the appropriate honor through ordinary clerical procedures in the Office of the Dean.

A part-time student who meets either of these standards in a consecutive series of semesters may request the awarding of the honor through the College of Education and Human Development Advising Center within one semester of meeting the requirements. Hours in any one semester may not be counted more than once toward either honor. It is the part-time student's responsibility to initiate this award by contacting the Education Advising Center.

## Academic Warning, Probation, Suspension, and Dismissal Policies

### Academic Warning Policy

1. Students whose cumulative grade point average (based on the completion of a minimum of twelve (12) degree-applicable credits at the University of Louisville) falls below 2.25 will be placed on Academic Warning for one semester.
2. Students on Academic Warning will be placed on Academic Probation if the cumulative grade point average (based on degree applicable credits) remains below 2.25 after the academic warning semester.
3. Students on Academic Warning will be placed in good standing status if the cumulative grade point average (based on degree applicable credits) is 2.25 or above after the academic warning semester.

### Academic Probation Policy

1. Students on Academic Warning will be placed on Academic Probation if the cumulative grade point average (based on degree applicable credits) remains below 2.25 after the academic warning semester.
2. Students on Academic Probation who achieve a cumulative grade point average (based on degree applicable credits) of 2.25 or above will be placed in good standing status.
3. Students on Academic Probation may enroll in no more than 14 semester hours in a semester (9 during the summer).
4. Students on Academic Probation must earn a 2.50 grade point average (based on degree applicable credits) in the academic probation semester to continue on Academic Probation.
5. Students on Academic Probation whose cumulative grade point average is below 2.25 (based on degree applicable credits) and who earned a semester grade point average below 2.50 will be placed on Academic Suspension and will be required to sit out at least one semester (summer terms excluded)

### Academic Suspension Policy

1. Students on Academic Probation whose cumulative grade point average (based on degree applicable credits) is still below 2.25 and who earned a semester grade point average below 2.50 (based on degree applicable credits) will be placed on Academic Suspension and will be required to sit out at least one semester (summer terms excluded.)

2. Readmission of suspended students is not guaranteed. In order to be considered for readmission, a student must submit a written petition to the College of Education and Human Development Standards and Admissions Committee. The petition must be received at least one month prior to the first day of classes for the semester in which the student seeks readmission. The petition should address the student's perception of the causes of poor performance; the steps the student has taken to address those causes; and a plan of action to return to good standing. Students who are granted reinstatement will be readmitted on Academic Probation.
3. No student will be reinstated more than twice; the third suspension is an Academic Dismissal. A student academically dismissed can only return through special permission from the College of Education and Human Development Standards and Admissions Committee.
4. U of L students who are suspended or dismissed by one unit are eligible to apply for admission to another unit and may be admitted if they meet minimum admission standards of that unit. Students who apply for admission to another unit may be admitted if they meet minimum admission standards of that unit. Students who apply for admission to another unit may not take any courses in the unit from which they were dismissed.

### Dismissal Policy

Students who are suspended the third time from the College of Education and Human Development are academically dismissed.

A student who has been dismissed from the College of Education and Human Development must remain out of school for one full semester, and should use that time for reorientation to further study in college or other career decisions. The summer session does not count as a semester. If a student thus dismissed is admitted to any other college or university, the credits earned while in attendance during the semester that the student should be out of school will not apply toward a degree granted by the College of Education and Human Development.

The College of Education and Human Development will honor the dismissal policy of all units of the University of Louisville.

Academic Grievance Procedure  
The College of Education and Human Development follows the procedures for academic grievances as stated in the General Information section and as published in The Redbook, Chapter 6, Article 8. Any student considering filing such a grievance should consult with the College of Education and Human Development Advising Center for advice and information.

## Graduation and Degree Requirements

### General Requirements for Baccalaureate Degrees

The baccalaureate degrees offered by the College of Education and Human Development include minimum requirements for completion and graduation. The following requirements apply to the B.S. degree in Occupational Training and Development:

1. 123 minimum total hours (60 of these hours must be earned at an accredited four-year institution).
2. 50 senior college hours (300 level and above).
3. 2.25 overall grade point average.
4. 2.5 grade point average in the major.
5. 30 of the last 36 hours must be taken in residence.
6. A grade of "C" or better is required in all professional education courses. C- is not acceptable.

**NOTE:** Students admitted to an undergraduate teacher certification program must maintain a 2.5 overall grade point average and a 2.5 grade point average in the professional education courses.

The Department of Health Promotion, Physical Education, and Sport Studies offers the Bachelor of Science degree with majors in health and human performance and sport administration. The minimum requirements for completion of these degrees are:

1. a minimum total of 123 hours (60 of these hours must be earned at an accredited four-year institution).
2. 50 senior college hours (300-level and above).
3. 2.25 overall grade point average.
4. 30 of the last 36 hours must be taken in residence.
5. Only one "D" in core courses or concentration courses may be applied toward a bachelor's degree (effective with the Spring 1998 semester and thereafter).

Students pursuing the Bachelor of Science degree with a major in health and human performance who are interested in teaching or coaching should contact the HPES Department for information.

The following graduation requirements apply to the B.S. degree in Early Elementary Education:

1. A minimum total of 125 semester hours
2. 50 senior college hours (300 level and above)
3. 2.50 overall grade point average
4. 2.75 overall grade point average in professional education and concentration courses with no grade lower than C.
5. 30 of the last 36 hours must be taken in residence.
6. Successful completion of portfolio

### Requirements for Minors

The Department of Health Promotion, Physical Education, and Sport Studies offers programs for a minor in four areas: human health and wellness, sport administration, exercise science and sport medicine and health promotion. The minors in human health and wellness and sport administration each require a minimum total of eighteen (18) hours. The minors in exercise science and sport medicine and health promotion each require twenty-one (21) hours. A grade point average of 2.50 is required in the coursework for the minor. Please note that only one "D" will be allowed in the minor courses.

These programs are university-wide minors. The coursework is also open to students admitted to units other than the College of Education and Human Development. Students interested in applying for admission to a minor should contact the Education Advising Center.

### Application for Graduation

Each degree candidate must complete an on-line degree application within the first two weeks of the semester in which the candidate intends to graduate. Any candidate removed from the graduation list must reapply for the degree and comply with the rules and regulations applying to all candidates for degrees. It is the responsibility of the student to submit an application for degree by the specified date.

### Application for Teacher Certification

Students seeking teacher certification upon completion of degree and/or program requirements, must apply through the College of Education and Human Development Advising Center to the Kentucky Professional Standards Board to receive the teaching certificate. Consult the Education Advising Center for information.

### Graduation with Honors

In order to be eligible to receive a degree with the distinction of Cum Laude, Magna Cum Laude or Summa Cum Laude, a student must complete 45 hours of the last 66 hours of work toward the degree in residence.

For a degree with the distinction of Cum Laude, a university grade-point average of 3.5 based on degree-applicable credit and a departmental standing of 3.5 based on degree-applicable credit, must be attained by the end of the first semester of the senior year. "Departmental standing" is defined as follows: HPES degrees - all HPES and SPAD courses; Health Occupations Education, Occupational Education and Occupational Training and Development degrees - all EDTD and ELFH courses. For a degree with the distinction of Magna Cum Laude, both a departmental and a university grade-point average of 3.75 must be attained by the end of the first semester of the senior year. For a degree with the distinction of Summa Cum Laude, both a departmental and a university grade point average of 3.75 must be attained by the end of the first semester of the senior year. In addition to the grade point average, a special project or paper must be completed and approved for Summa Cum Laude. The cumulative grade point average on credit earned at the University of Louisville only will be the grade point average used in all decisions regarding honors.

In order for a student to be eligible to receive a degree with the distinction of Cum Laude, Magna Cum Laude or Summa Cum Laude, the student must have the recommendation of the major department faculty indicating an outstanding level of competence in the various phases of field experience as well as in all academic work.

### Guidelines for Graduating with Summa Cum Laude

Students intending to graduate with the distinction of Summa Cum Laude must submit a proposal and present a final paper or project based on the guidelines developed by the College of Education and Human Development Honors and Scholarship Committee. The proposal must be approved by the Committee according to the following schedule:

- May degree applicant:  
—Prior to September 30  
August degree applicant:  
—Prior to October 31  
December degree applicant:  
—Prior to April 30

The "Guidelines for Graduating with the distinction of Summa Cum Laude handout is available in the College of Education and Human Development Advising Center. Each student must select a faculty sponsor for assistance and guidance in preparing the proposal and the final project/paper. Specific guidelines for the faculty sponsor are included in the handout.

The final project/paper must be approved by the Honors and Scholarship Committee according to the following schedule:

- May degree applicant:  
—Prior to March 31  
August degree applicant:  
—Prior to April 30  
December degree applicant:  
—Prior to November 30

### Catalog Year Policy

Students pursuing an undergraduate degree shall meet the degree requirements in effect at the time of their first admission to any degree-granting unit of the University provided they have not had a break in enrollment of two or more calendar years. If a student has a break in enrollment of two or more calendar years, that student must apply for readmission to the College of Education and Human Development and, if admitted, will be subject to catalog requirements in effect at the time of readmission. Students may elect to follow the most recent degree or program requirements established subsequent to their initial entry into a degree-granting unit. The University reserves the right to issue and require immediate compliance with new requirements as may be needed to respond to certification, licensure and accreditation issues. Individual units may have different catalog year requirements, which supersede those indicated here. Students should consult the catalog section for their specific enrollment unit.

## Other Academic Policies of the College of Education and Human Development

College of Education and Human Development Statement of Policy and Procedures with Respect to Academic Integrity  
A primary goal of the College of Education and Human Development is to educate men and women who will serve the education community with competence and integrity. To this end, the faculty considers academic honesty on the part of students of paramount importance. At another level, the trust existing between faculty and students must not be tainted with suspicion of dishonesty.

Academic dishonesty is defined in the Code of Student Rights and Responsibilities. Copies of the Code are available in the Dean's Office. In the event that a student believes the following procedures for handling allegations of academic dishonesty have resulted in an injustice, that student may seek counsel from the Student Grievance Officer.

## Procedures for Dealing with Breaches of Academic Integrity

1. A faculty member who believes that a student has committed an act of academic dishonesty shall, after checking with the clearinghouse to determine if the student has been found guilty of such acts previously, prepare a written statement that specifies the charge and that proposes the penalties to be imposed on the student. The proposed penalties shall be described as either:
  - a. academic penalties, which are penalties associated with the class in question, such as resubmission of or alternate assignments, F on the assignment, F for the course, etc.; or
  - b. administrative penalties, which are suggested penalties to be imposed by the Dean or Provost, such as suspension or expulsion from the College of Education and Human Development or the University.
2. The faculty member shall meet with the student in person and in private, at which time the faculty member shall:
  - a. explain the basis for the allegation;
  - b. give the student a copy of the written statement of the charge and proposed penalties; and
  - c. give the student a copy of these procedures.
3. The student shall either admit or deny the charge of academic dishonesty in writing no later than one week after the meeting with the faculty member. If the student does not meet this deadline, the student will be deemed to have denied the charge.
4. If the student admits the charge, any proposed academic penalties shall be implemented by the faculty member.
  - a. The faculty member shall then forward the Statement of Charges and proposed administrative penalties, if any, the student's admission of guilt, and a statement of the academic penalties imposed, if any, to the Dean.
  - b. The Dean shall review the documents and shall issue a decision, within 15 school days, regarding whether any administrative sanctions shall be imposed on the student by the College of Education and Human Development, and whether any University-wide administrative sanctions will be recommended to the Provost. The Dean shall notify the student, the faculty member, the department chair, and the Associate Dean of this decision. The Dean shall forward any recommended University-wide administrative sanctions to the Provost.

5. If the student denies the charge, the faculty member shall forward the statement of the charge and proposed penalties to the department chair, or, if the department chair is the faculty member making the allegation, to the Associate Dean. The department chair or the Associate Dean shall schedule a hearing.
  - a. Notice of the hearing shall either be hand-delivered or sent by Registered U.S. Postal Service to the student, at the address listed with the Registrar's Office, and to the faculty member via inter-office mail. The notice should be sent at least 10 school days prior to the hearing. The notice should state the time, date and place of the hearing and contain a copy of the original statement of the allegations.
  - b. If the student fails to appear after proper notice, the hearing will be held in the student's absence and a final decision rendered.
  - c. At the hearing, the professor and the student will each be provided an opportunity to present oral testimony and written evidence. The burden of establishing the student's guilt rests with the professor, who must do so by a preponderance of the evidence. A student may be assisted at the hearing by an advisor of his/her choosing. However, that person will not be permitted to speak on behalf of the student at the hearing. After the hearing, the chair or the Associate Dean, as appropriate, will render a decision. Decisions of academic penalties will be final. Additional administrative penalties recommended will be forwarded to the Dean with all materials submitted at the hearing, including a brief, written statement of reasons for the finding.
  - d. The Dean will consider the recommendation. Within 10 school days, the Dean will make a decision and notify the student, the professor, and the department chair or Associate Dean of the final action taken in the case. Notice of the decision will also be sent to the Office of the Provost. If the Dean's decision is not timely, the recommendation is voided and the action is dismissed.

## Policy on Instructional Modification

Students with disabilities, who need reasonable modifications to complete assignments successfully and otherwise satisfy course criteria, are encouraged to meet with the instructor as early in the course as possible to identify and plan specific accommodations. Students may be asked to supply a letter from the Disability Resource Center or other documentation, which will assist in planning modifications.

Statement on Student Teaching/Field Experiences Placement in field experiences is contingent upon the applicant's prospects for success and upon the availability of a qualified supervisor. The faculty reserves the right to evaluate the qualifications and suitability of student applicants and the quality of the student's performance and to make placements and appropriate changes based on the recommendation of the university coordinator and/or the host school or other agency. Evaluation will be based on standards of conduct and performance established by the faculty. Students must abide by all policies, rules, and regulations of the University and the assigned school. Failure to abide by this policy may result in removal from the program.

**Student Grievances**  
Students who wish to pursue an academic grievance may consult with the Student Grievance Officer or the Assistant Dean for Student Services of the College of Education and Human Development, who will apprise the student of the policies and procedures regarding grievances. The text of the academic and non-academic student grievance procedures are contained in the "General Information" section of this catalog.

## Department of Health Promotion, Physical Education, and Sport Studies

The Department of Health Promotion, Physical Education and Sport Studies offers programs for those undergraduate students interested in pursuing majors in Sport Administration and in Health and Human Performance.

The goals of the Health and Human Performance program are twofold: first, to prepare certified health and physical education teachers who can also assume duties as coaches and athletic trainers, and second, to prepare students for employment in the fields of sports medicine, health promotion, and exercise and fitness leadership. The health education program is accredited by AAHE.

The goal of the Sport Administration program is to prepare persons for a career in the sport business industry. The Sport Administration students may pursue a career in sport marketing, management or other professional area in professional level sports, sport-related companies, parks and recreation, athletics administration, sport governing organizations, sport or fitness clubs and facilities, or other sport business enterprise. The program is accredited by NASPE-NAASM.

**Faculty**  
**Department Chair**  
Bryant A. Stamford, Ph.D.  
University of Pittsburgh  
Professor

**Professors**  
Sharleen J. Birkimer, Ph.D.  
Kansas State University, Emerita  
Richard A. Fee, Ph.D.  
University of Maryland  
Mary A. Hums, Ph.D.  
The Ohio State University  
Cheryl A. Kolander, H.S.D.  
Indiana University  
P. Joanne Rowe, Ph.D.  
Texas Woman's University, Emerita  
Ann M. Swank, Ph.D.  
University of Pittsburgh  
Clark F. Wood, M.A.  
University of Kentucky, Emeritus

**Associate Professors**  
Kent Adams, Ph.D.  
Oregon State University  
Sherrill E. Brakmeier, M.A.T.  
University of Louisville, Emerita  
Daniel F. Mahony, Ph.D.  
The Ohio State University  
Anita J. Moorman, M.S., J.D.  
University of Oklahoma  
Carol T. Stinson, Ph.D.  
Iowa State University



William T. Weinberg, Ph.D.  
University of Maryland

**Assistant Professors**

T. Christopher Greenwell, Ph.D.  
The Ohio State University

**Lecturers**

Melinda Tuttle, M.Ed.  
University of Louisville.

Nicholas Fabian, M.S.  
University of Louisville

Sally Hope, M.A.T.  
University of Louisville

**Degree Programs**

The Department of Health Promotion, Physical Education, and Sport Studies offers the Bachelor of Science degree with majors in Health and Human Performance and Sport Administration. Minors are available in the areas of Human Health and Wellness, Exercise Science and Sports Medicine, Sport Administration, and Health Promotion. Concentrations are available in Exercise Science and Sports Medicine, Health Promotion, Skill Acquisition, and Sport Administration.

Students interested in teacher certification in physical education must complete an undergraduate health and human performance degree in the College of Education and Human Development, and a pre-teacher education core of courses. Students then apply for the teacher certification program, which is completed during a professional year at the graduate level. Successful completion of the graduate professional year culminates in the granting of teacher certification and a Master of Arts in Teaching (MAT) degree from the College of Education and Human Development. Additional information regarding admission to the teacher education program, including application deadlines, is available from the Education Advising Center.

For specific requirements relating to each undergraduate program refer to the corresponding page listed below:

**Programs:**

Health and Human Performance,  
page 104.

Exercise Science, page 100.

Human Health and Wellness, page  
105.

Sport Administration, page 132.

Health Promotion, page 104.

Department of  
Leadership,  
Foundations, and  
Human Resource  
Education

This Department of Leadership, Foundations, and Human Resource Education offers an undergraduate program with two concentrations. The concentration in training and development leads to the training and development of adults in non-school settings and the concentration in career and technical education leads to teacher certification for inservice teachers in experienced trade and industrial crafts areas.

**Faculty**

**Department Chair**

Joseph M. Petrosko, Ph.D.  
New Mexico State University

Professor  
College of Education and Human  
Development, Room 333

**Professors**

G. Keith Bayne, Ph.D.  
Southern Illinois University, Emeritus

Edward H. Berman, Ed.D.  
Columbia University, Emeritus

Richard K. Crosby, Ed.D.  
University of Kentucky, Emeritus

Joseph Devitis, Ph.D.  
University of Illinois, Urbana-  
Champaign

Everett Egginton, Ph.D.  
Syracuse University, Emeritus

Robert E. Hoye, Ph.D.  
University of Wisconsin, Emeritus

Thomas S. Jeffries, Ed.D.  
Indiana University, Emeritus

John L. Keedy, Ed.D.  
University of Tennessee

Gordon Ruscoe, Ph.D.  
University of Michigan, Emeritus

John L. Strobe, Jr., Ph.D., J.D.  
University of Nebraska, Emeritus

Francis C. Thiemann, Ph.D.  
University of Oregon, Emeritus

John Welsh, Ph.D.  
Oklahoma State University

**Associate Professors**

Mike A. Boyle, Ph.D.  
Texas A&M University

Stephen K. Miller, Ph.D.  
Michigan State University

Keith L. Raitz, Ph.D.  
The Ohio State University, Emeritus

Carolyn Rude-Parkins, Ph.D.  
University of Iowa

Robert R. Schulz, Ed.D.  
Michigan State University, Emeritus

Paul A. Winter, Ph.D.  
The Ohio State University

**Assistant Professors**

Namok Choi, Ph.D.  
Oklahoma State University

Patricia K. Leitsch, Ph.D.  
Southern Illinois University

Donna H. McCabe, Ed.D.  
University of South Florida, Emerita

Freda Merriweather, Ed.D.  
University of Louisville

Jayne R. Morgenthal, Ed.D.  
University of Louisville

Thomas G. Reio, Jr., Ph.D.  
Virginia Polytechnic Institute & State  
University

**Adjunct Faculty**

Melissa Evans-Andris, Ph.D.  
Indiana University

Albert Lyons, Ph.D.  
University of Chicago

Marco Munoz, Ed.D.  
University of Louisville

P. Diane Ricciardi, Ph.D.  
University of South Carolina

**Degree Program**

A Bachelor of Science degree in Occupational Training and Development offers two concentrations: Career and Technical Education, page 122 and Training and Development, page 122.

The concentration in Career and Technical Education is for in-service teachers in experienced trade and industrial crafts areas. Students in this program may earn certification to teach their skills in Kentucky Vocational Schools through the Planned 64-Hour Program. Documented work experience or licensure is required for admission.

The concentration in Training and Development is for students interested in training and development in non-school settings. Industrial, public service, military trainers, and health resource coordinators are prepared in this program.

Experienced trade and industrial crafts persons may earn occupational certification to teach their skills in Kentucky Vocational Schools through the Planned 64-Hour program. Secondary occupational teaching certification can be earned through the bachelor's degree program. Documented work experience or licensure is required for admission.

Department of Teaching  
and Learning

This Department of Teaching and Learning offers an undergraduate program with two concentrations, each leading to teacher certification. The concentration in elementary education and learning and behavior disorders leads to elementary certification, grades primary through grade 5 and learning and behavior disorders certification, grades primary through grade 12. The concentration in interdisciplinary early childhood education leads to certification, birth through age 5. *The Department is in the process of reinstating its undergraduate teacher certification programs at the elementary, middle, secondary, and special education levels. Inquires may be made beginning Fall 04.*

**Faculty**

**Department Chair**

Karen Karp, Ed.D.  
The Ohio State University  
Professor  
College of Education and Human  
Development, Room 253A

**Professors**

William H. Banks, Jr., Ph.D.  
The Ohio State University, Emeritus

Edward P. Berla, Ph.D.  
University of Cincinnati, Emeritus

Jewell Brownstein, Ed.D.  
Indiana University, Emerita

William Bush, Ed.D.  
University of Georgia

Hilda R. Caton, Ed.D.  
University of Kentucky, Emerita

Jean Anne Clyde, Ed.D.  
Indiana University

Mark W. F. Condon, Ph.D.  
University of Missouri

Linda Irwin Devitis, Ed.D.  
University of Tennessee

Allan E. Dittmer, Ph.D.  
Wayne State University

Denzil Edge, Ph. D.  
The Ohio State University, Emeritus

Marjorie M. Kaiser, Ed.D.  
Virginia Polytechnic Institute, Emerita

Karen Karp, Ed.D.  
Hofstra University

Diane W. Kyle, Ed.D.  
University of Virginia

Karen K. Lind, Ed.D.  
University of Louisville, Emerita

Ellen McIntyre, Ed.D.  
University of Cincinnati

Joseph H. McMillan, Ed.D.  
Michigan State University, Emeritus

Victoria Molfese, Ph.D.  
Pennsylvania State University

Jack C. Morgan, Ph.D.  
Purdue University, Emeritus

Anne O. Netick, Ph.D.  
University of Texas at Austin, Emerita

V. Daniel Ochs, Ed.D.  
University of Virginia, Emeritus

John H. Pollock, Ed.D.  
University of Kentucky, Emeritus

F. Randall Powers, Ed.D.  
Harvard University, Emeritus

Robert N. Ronau, Ph.D.  
Kent State University

Gina D. Schack, Ph.D.  
University of Connecticut

Bernard J. Strennecky, Ed.D.  
University of Rochester

Charles S. Thompson, Ph.D.  
The Ohio State University

Randall L. Wells, Ph.D.  
The Ohio State University

**Associate Professors**

Debra Bauder, Ph.D.  
University of Kentucky

Yash Bhagwanji, Ph.D.  
University of Illinois

James Neal Blake, Ph.D.  
University of Southern Mississippi,  
Emeritus

Nettye Brazil, Ph.D.  
University of Minnesota

John Burke, Ph.D.  
University of California, Santa Barbara

John E. Garrett, Ph.D.  
Syracuse University, Emeritus

Muhammad Hanif, Ph.D.  
Indiana University, Emeritus

Marvin C. Holmes, Ed.D.  
University of Kentucky

Ann E. Larson, Ph.D.  
University of Illinois-Urbana

Louise B. Lyons, Ed.D.  
University of Kentucky, Emerita

Phyllis Metcalf-Turner, Ph.D.  
University of Minnesota

Vivian Moody, Ph.D.  
University of Georgia

Sheri B. Moore, Ed.D.  
University of Louisville

Thomas J. Simmons, Ph.D.  
Kent State University

J. Lea Smith, Ph.D.  
University of Idaho

Deborah L. Voltz, Ed.D.  
University of Alabama

**Assistant Professors**

Sherri Brown, Ph.D.  
University of Tennessee

Andrew Kemp, Ph.D.  
University of Georgia

Elizabeth Kirsch, Ph.D.  
Michigan State University

Martha McKnight, M.Ed.  
University of Louisville, Emerita

William Penrod, Ed.D.  
University of Louisville

Elizabeth Rightmyer, Ed.D.  
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**Adjunct Faculty**  
Dennis Spetz, Ed.D.  
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David M. Wicks, Ed.D.  
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**Instructors**  
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University of Louisville

Mary Ann Reynolds, M.Ed.  
University of Louisville

**Lecturers**  
Margaret Darey, M.Ed  
University of Louisville

Sherry DeMarsh Estep, M.A.  
Western Kentucky University

Jean Hicks, M.Ed.  
University of Louisville

Sheila Poore, M.Ed.  
University of Louisville

Degree and Teacher  
Certification Programs

For specific information regarding the following programs, including application deadlines and admission requirements, contact the Education Advising Center (502/852-5597). Information is also available at this website: [www.louisville.edu/edu](http://www.louisville.edu/edu)

**Art Education** - Teacher certification in Art Education for grades P through 12 is available through a MAT degree program at the graduate level.\*

**Birth through 5** - Teacher certification is available at the undergraduate level through a B.S. degree (see page 95) or a M.Ed. degree at the graduate level.\* A non-teaching degree option is also available at the graduate level.\*

**Business and Marketing Education** - Teacher certification in Business and Marketing Education for grades 5 through 12 is available through a MAT degree program at the graduate level.\*

**Early Elementary Education** - Teacher certification is available at the undergraduate level through a B.S. degree leading to P-12 Learning and Behavior Disorders certification and P-5 Elementary certification. (See page 95). In addition, teacher certification for P-5 Elementary Education may be obtained through a MAT degree program at the graduate level.\*

**French Education or Spanish Education** - Teacher certification at the graduate level in French or Spanish for grades P through 12 is available through a MAT degree program.\*

**Learning and Behavior Disorders** - Teacher certification in P through 12 Learning and Behavior Disorders is available through a graduate-level Stand Alone program for students who are employed on a temporary provisional teaching certificate in an area of Learning and Behavior Disorders.\* The certification can be

completed in a non-degree program or through the M.Ed. degree at the graduate level.\* Programs for certified teachers to add Learning and Behavior Disorders certification to their teaching certificate are available through a M.Ed. degree program or through a Rank 1 program at the graduate level. Programs in special education are also available for non-teachers who work in non-school settings.

**Middle School Education** - Teacher certification at the graduate level for grades 5 through 9 is available through a MAT degree program at the graduate level.\* An alternative certification program for students who are employed on a temporary provisional teaching certificate is also available.\* Contact the Education Advising Center for specific information.

**Moderate and Severe Disabilities** - Teacher certification in P through 12 Moderate and Severe Disabilities is available through a graduate-level Stand Alone program for students who are employed on a temporary provisional teaching certificate in an area of Moderate and Severe Disabilities.\* The certification can be completed in a non-degree program or through the M.Ed. degree at the graduate level.\* Programs for certified teachers to add Moderate and Severe Disabilities certification to their teaching certificate are available through a M.Ed. degree program or through a Rank 1 program at the graduate level. Programs in special education are also available for non-teachers who work in non-school settings.

**Music Education** - Teacher certification in Music Education for grades P through 12 is available at the undergraduate and graduate levels. For information about certification in music education at the undergraduate level, contact the School of Music. Information about certification through the MAT degree program at the graduate level\* may be found in the Graduate Catalog or visit website: [www.louisville.edu/edu](http://www.louisville.edu/edu).

**Physical Education** - Teacher certification at the graduate level in Physical Education for grades P through 12 is available through a MAT degree program offered by the Department of Health Promotion, Physical Education, and Sport Studies.\*

**Secondary Education** - Teacher certification at the graduate level for grades 8 through 12 is available through a MAT degree program in the following areas: Biology, Chemistry, Earth and Space Sciences, English, Mathematics, Physics, and Social Studies.\* Contact the Education Advising Center for specific information. Graduate level alternative certification programs for students who are employed on a temporary provisional teaching certificate are

available in these areas: Art, Biology, Business and Marketing, Earth and Space Science, English, French, Music, Mathematics, Physics, Social Studies and Spanish is also available.\*

**Vision Impairment** - Teacher certification at the graduate level in P through 12 Vision Impairment is available for certified teachers. The certification can be completed through a M.Ed. degree program or through a Rank 1 program at the graduate level.\*

Other teacher certification programs such as Rank 1, Masters and Specialists degree programs, Gifted Education, and Reading are available for certified teachers at the graduate level. For more information consult the Graduate Catalog or visit this website: [www.louisville.edu/edu](http://www.louisville.edu/edu).

\* All graduate level teacher certification candidates must hold a bachelor's degree and meet specific admission requirements. For information regarding the appropriate undergraduate program to pursue, contact the Education Advising Center.

**Please Note:** *The Teaching and Learning Department is in the process of reinstating its undergraduate teacher certification programs in elementary, middle, secondary, and special education. Inquiries may be made beginning Fall 2004.*

# School of Music

## Admission Policies of the School of Music

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

1. a completed application for admission to the University, including the \$25 application fee,
2. a completed School of Music Application for Financial Aid (optional),
3. official high school/college transcript,
4. scores from the American College Testing (ACT) Program (required for all full-time applicants who have earned fewer than 24 acceptable semester credit hours in a college or university) and,
5. two letters of recommendation.
6. Students admitted on probation must be in good standing after two semesters, or they will be dismissed and not allowed to continue pursuing a degree in music.

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

Prerequisite Training in Applied Music

### Piano

To enter the four-year degree program in piano, the student should be able to play all major and minor scales correctly in moderately rapid tempo, and arpeggios in octave position in all keys; should have acquired systematic methods of practice; and should also be able to read compositions of moderate difficulty at sight. The student should have studied such compositions as Bach Inventions, classical sonatas, and selections by composers such as Schubert, Schumann, Mendelssohn, Chopin, Debussy, Bartok, and Kabalevsky.

### Organ

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

### Voice

To enter the four-year degree program in voice, the student should be able to sing on pitch, with correct phrasing and musical intelligence. Standard songs in English (the simpler classics) are recommended. The student should also demonstrate an ability to read a simple song at sight and have a knowledge of the rudiments of music. Some knowledge of piano is recommended.

### Violin

To enter the four-year degree program in violin, the student should be able to perform violin etudes of the difficulty of the Kreutzer Etudes Nos. 1 to 32 and works comparable in difficulty with the Viotti Concerto No. 23, the de Beriot Concertos Nos. 7 and 9, and the Tartini G-Minor Sonata. Some knowledge of piano is recommended.

### Guitar

Encouraged literature prior to admission includes studies and exercises by Giuliani, Sor, Aguado, Brouwer, Carcassi, and Carulli. Also recommended are Segovia's Diatonic Major and Minor Scales. A fundamental knowledge of sight-reading is expected.

Some knowledge of piano is recommended.

### Orchestral Instruments

The student should have acquired a proficiency on the instrument comparable to that required for violin. Some knowledge of piano is recommended.

### All Applied Music Fields

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

### Community College Transfer Limits Policy

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

### Special Students

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

### Re-enrolling Students

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

Students who were not enrolled during the immediate past semester, but were enrolled within the last two calendar years, and who wish to continue in the school and program in which they were last registered, are eligible to re-enroll. They need to complete a re-enrollment form at the School of Music or the Registrar's Office. Students completing the re-enrollment process are eligible for early registration for the term in which they wish to return. Students whose last enrollment status was visitor, high school visitor, conditional, or who were dismissed, must reapply. Students last enrolled in University College or Transitional Studies must also reapply through the Office of Admissions since those units are no longer in existence.

### Transfer Grade Acceptance

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

Transfer work that is college-level, academic in nature, and earned at appropriately accredited institutions will be accepted and posted as credit earned (i.e., with no grade) and will be accepted as credit toward degree, consistent with policies in effect for resident students. Students must be aware that majors and/or programs may require a minimum of a "C" or better for certain degree requirements. Individual units or programs may set higher standards in accepting transfer grades, which supersede those indicated here.

The School of Music does not accept transfer grades below a "C." No credit is transferred for applied music or theory. Advanced standing for applied music may be awarded at a jury. Advanced standing for theory is awarded by examination. Music history credits are evaluated for transfer by the Music History faculty. Recital Attendance credits may be transferred. Principal ensemble credits may be transferred, but not to exceed one per semester. Those with Recital Attendance transfer credits or documented ensemble experiences or courses will be evaluated on an individual basis by the Dean's Office.

### Transfer Equivalency Determination

Transfer equivalencies are determined by the instructional unit or the "best fit" unit as determined by the Office of the University Provost.

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

## Academic Advising and Registration

### Academic Advising

All School of Music students are advised by the academic counselor who assists with registration, monitors progress in courses required for their major, and reviews progress made toward completion of required courses for admission to Senior College.

Students are also assigned a faculty mentor who provides individualized assessment of the student's satisfaction with their course of study and progress toward completion of a degree, and gives assistance with planning for graduate work and/or career choices. The faculty mentor is chosen according to the student's performance instrument and the degree program recommended at the time of the audition.

Mailing Address  
School of Music  
Belknap Campus  
University of Louisville  
Louisville, KY 40292  
<http://www.louisville.edu/music>

Telephone Numbers  
**Office of the Dean**  
(502) 852-6907

Registration Procedures  
Advising is required for all School of Music students through the sophomore year. Students will be blocked from registering for classes until the advising requirement has been satisfied. Early registration advising periods are published in the Schedule of Courses.

## Academic Policies of the School of Music

**Academic Bankruptcy**  
University of Louisville students who have been out of higher education for at least two years and then return to achieve a 2.50 grade point average or higher in the first 12 degree-applicable credit hours are eligible to apply for Academic Bankruptcy. All degree-applicable courses taken during the term in which the 12-hour minimum is attained will be considered in determining eligibility for bankruptcy. Under this policy, students (if accepted) could remove one or more consecutive semesters of college work from their grade point average and semester hours completed calculation. University of Louisville students are advised that while bankrupted course grades are removed from the calculation, the course work does remain a part of their permanent record and that the bankrupted work may be considered for financial aid purposes, NCAA purposes, and may be evaluated if applying for honors or graduate/professional study. Additionally, students must be aware that Academic Bankruptcy is an internal policy and the University of Louisville cannot guarantee how the work will be viewed by another university should the student choose to transfer. Students wishing to examine this option are advised to see an advisor in their enrollment unit for details of the process. Bankrupt semesters will not apply toward enrollment semesters when determining catalog year. Bankruptcy may be declared only once.

**Academic Grievance Procedures**  
The School of Music follows the procedures for academic grievance in accordance with The Redbook, Chapter 6, Section 6.8.3.

Any student considering filing such a grievance may consult with the Student Academic Grievance Officer for further information or review the procedure outlined in the general information section of this catalog.

**Academic Standards Policy**  
The University of Louisville communicates its expectations for undergraduate academic achievement through the Undergraduate Academic Standards Policy. Academic standards are determined by the faculties of the enrollment/degree-granting units.

Applicable standards for continuation in a particular enrollment unit can be based upon grade point average, course specific achievement, and in some programs a professional/behavioral component. Students are encouraged to consult their enrollment unit and the catalog for the specific standards of their unit.

### Academic Warning, Probation, Suspension and Dismissal Policies

Good standing is defined as a cumulative grade point average not less than the minimum GPA set by the degree-granting unit. School of Music students are in good standing when they have a minimum cumulative grade point average of 2.5.

1. UofL undergraduate students who, after the first 12 degree-applicable semester hours taken at U of L, have a grade point average below 2.5 will be placed on Academic Warning. They will be notified that their achievement is below expectations and strongly encouraged to seek assistance, but no limitation will be placed on their registration for the next term.
2. In any semester subsequent to that described in (1. above), an undergraduate student whose cumulative grade point average falls below 2.5 will be placed on Academic Probation for the next semester in which the student enrolls. Undergraduate students on Academic Probation are notified that their achievement is below expectations and are subject to course and/or credit hour limitations, specified course registration requirements, or other intrusive advising interventions as deemed appropriate by their enrollment unit.
3. Undergraduate students on Academic Probation will have their records evaluated at the end of the probationary semester with one of the following outcomes:
  - a. a student will be restored to good standing in the degree-granting unit.
  - b. a student whose cumulative grade point average is still below 2.5 but who earned a semester grade point average at or above 2.5 will be maintained on probation.
  - c. a student whose cumulative grade point average is below 2.5, and who earned a semester grade point average below 2.5, may petition for continuation on probation. The petition describing the student's plan of action to return to good standing must be submitted to the appropriate individual or committee in the student's enrollment unit.

- d. a student whose cumulative grade point average is still below 2.5 and who earned a semester grade point average below 2.5 will be placed on Academic Suspension and will be required to sit out at least one semester (summer terms excluded).
  - e. UofL students who are suspended or dismissed by one unit are eligible to apply for admission to another unit and may be admitted if they meet minimum admission standards of that unit. Students who apply for admission to another unit may not enroll in any courses in the unit from which they were dismissed.
4. Readmission of suspended students is not guaranteed. In order to be considered for readmission, a student must submit a written petition to the appropriate individual or committee in the enrollment unit and an "Application for Undergraduate Admission" form to the Office of Admissions. The petition must be received by the enrollment unit at least one month prior to the first day of classes for the semester in which the student seeks readmission. The petition should address the student's perception of the causes of poor performance; the steps the student has taken to address those causes; and a plan of action to return to good standing. Students who are granted reinstatement will be readmitted on probation.
  5. No student will be reinstated more than twice; the third suspension is an Academic Dismissal. A student academically dismissed can only return through special permission from the enrollment unit.

**Catalog Year**  
Students pursuing an undergraduate degree shall meet the degree requirements in effect at the time of their first admission to any degree-granting unit of the University provided they have not had a break in enrollment of two or more calendar years. If a student has a break in enrollment of two or more calendar years, that student must apply for readmission to an enrollment unit and, if admitted, will be subject to catalog requirements in effect at the time of readmission.

Students may elect to follow the most recent degree or program requirements established subsequent to their initial entry into a degree-granting unit. The University reserves the right to issue and require immediate compliance with new requirements as may be needed to respond to certification, licensure and accreditation issues. Individual units may have different catalog year requirements which supersede those indicated here. Students should consult the catalog section for their specific enrollment unit.

**Course Loads**  
Without special permission, students will not be permitted to register for more than two hours in excess of the prescribed requirements in their course for any semester. No excess is allowed during the first semester of residence.

A student who has a grade point average of 3.0 may be permitted to take hours in excess of the prescribed requirement, with the consent of the adviser and the Dean.

A student may receive credit only for courses for which he/she has officially registered, and only for the number of hours specified for such courses in the catalog.

**Dean's List**  
A student who completes in one semester twelve or more graded credits with the grades of "A", "B", or "C" and a 3.5 semester grade-point average, with no grades of "I", "X", or "U" is named to the Dean's List. The grade "P" has no effect on the determination for the Dean's List. A student who meets these standards in one semester will be awarded the appropriate honor through ordinary clerical procedures in the Office of the Dean.

**Enrollment Standards**  
Enrollment units may establish grade point average standards that exceed the minimum grade point average requirements of the University. School of Music students are in good standing when they have a minimum cumulative grade point average of 2.5. Should an undergraduate student fail to meet the requirements of their enrollment units, they may be subject to enrollment restrictions, course repetition requirements, other corrective interventions, and ultimately, dismissal from their enrollment unit. A student who is dismissed from their enrollment unit may seek immediate transfer to an enrollment unit for which their cumulative grade point average is acceptable.

**Grade Point Average**  
The University of Louisville calculates a University Grade Point Average which becomes the standard measure of performance and the official university calculation upon which academic decisions are made. The University Grade Point Average is determined at the undergraduate level, based upon all undergraduate course work taken at the University of Louisville. Courses numbered below the 100-level (000-099) taken in the 1998 Fall semester or after will not be used in the earned hours or University Grade Point Average calculation. Program Grade Point Average ceases to exist as an official measure.

## Grading System and Quality Points

At the end of each semester, instructors report the grades of each student to the Registrar for permanent record. Grades and their corresponding quality points are listed below.

Grade	Quality Points
A+ .....	4.0
A .....	4.0
A- .....	3.7
B+ .....	3.3
B .....	3.0
B- .....	2.7
C+ .....	2.3
C .....	2.0
C- .....	1.7
D+ .....	1.3
D .....	1.0
D- .....	0.7
F (Failure) .....	0
S (Satisfactory) .....	0
U (Unsatisfactory) .....	0
I (Incomplete) .....	0
W (Withdrawn) .....	0

"I" automatically becomes "F" unless removed by the end of the next semester (or after six weeks for applied study). No work of "D" grade may apply toward a major subject. The grades of "S" and "U" may be received in applied music and class piano. When such a grade is received in a course, no hours, credit, or quality points are received, and the course must be repeated.

### Grade Status Change

Audit status is offered only on a space available basis. For that reason, students may not register for a class in an audit status during early registration, nor may a student change from a graded status to an audit status during that period. Students may register for classes in audit status during regular registration (after early registration financial cancellations) and then only with written approval of the instructor of the course. Students are allowed to change from audit to graded status or from graded status to audit status at any time from the beginning of regular registration through the last day to add a class so long as they have approval from the course instructor.

Students are advised that such approval is the instructor's prerogative and that audit status may have implications for financial aid eligibility. Any change of status must be submitted on the form provided in the Schedule of Courses. Forms must be turned in to the Registrar's Office by the required date.

A course taken for audit may be repeated for credit.

## Pass-Fail Courses

Any School of Music student who has been admitted to Senior College and who is in good standing may take one elective course each semester outside the major field on a pass-fail basis. Forms may be obtained in the Dean's Office. Any course which is taken to fulfill the University's General Education requirements or any "MUS" course to fulfill a degree requirement may not be taken on a pass-fail basis.

### Repetition of Courses

Students may repeat to replace a maximum of four (4) courses with grades of "F," "D," or "C." For these four courses, only the last grade attained will be used in the grade point average calculation. Courses in which a grade of "D" or "C" was originally attained may be repeated only once under the repeat-to-replace option. Students are not required to repeat an "F" grade unless the course is specifically required for graduation. Students should be aware that all grades are displayed on the official transcript even after the repeat. All Schools and Colleges within the University will honor any previously granted repeats from other Schools and Colleges within the University.

A repeat form must be filed to activate this option. For a course retaken for which this option is not requested, both grades will be used in the GPA calculation, but students cannot receive double credit in hours required for the degree.

### Withdrawal Procedures and Policies

Upon proper documentation of special circumstances, decisions for approval of late complete withdrawals may be made by the appropriate official or committee in the student's enrollment unit, who will notify the instructors involved. Late complete withdrawals are those requested after the deadline to withdraw has passed and before the instructor has assigned a grade. After a grade has been assigned, the instructional unit has the authority to change the grade to a withdrawal.

## General Requirements for Baccalaureate Degrees

### Minimum Hours and Point Standing

To be recommended for a degree, the student must have completed the prescribed number of hours in the courses taken and must have a 2.5 grade point average.

### Residency

For bachelors' degrees, thirty (30) of the last thirty-six (36) semester credit hours must be completed at the University of Louisville. Within the University, Schools and Colleges may set minimum credit hour requirements to be completed after formal acceptance in the School, College or Department.

### Application for Graduation

Candidates must apply for graduation at the beginning of the semester in which they expect to complete all degree requirements. Application for Degree forms may be obtained in the Dean's Office. Completed forms must be submitted to the Dean's Office by the date published for each semester in the Schedule of Courses. The Dean's Office will conduct a degree audit following receipt of the form; however, students are strongly urged to request a preliminary degree audit prior to their final semester so that any deficiencies in degree requirements can be identified early.

### Graduation with College Honors

Degree candidates may receive their degree with honors, high honors, or highest honors assuming they have met the following minimum grade point average upon completion of their final semester.

Degree with Honors .....	3.5
Degree with High Honors .....	3.75
Degree with Highest Honors .....	3.9

## General Regulations of the School of Music

The officials and instructors of the School of Music do not assume the responsibility of notifying students concerning the regulations of the School of Music or their particular status in regard to credits, requirements, or quality points. They are more than willing to inform them at any time they request the information. It is the responsibility of students to inform themselves in regard to grades, credits requirements, quality points and the regulations applying to students in the School of Music.

The schedules, fees, and regulations specified are subject to change without notice.

## Advanced-Standing Credit

Advanced-standing credit in any applied music subject (piano, voice, organ, guitar, band, or orchestral instruments) or in music theory will be granted only by examination, and then only after the student has satisfactorily pursued advanced work in that subject for one semester.

### Applied Music Lesson Credit

All full-time students pursuing a professional degree in music will receive a one-hour private lesson per week in their major applied music subject, regardless of the number of credit hours allowed for the course. Students enrolled in the B.A. degree program will receive at least a half-hour lesson per week in applied music. In general, applied music courses require one hour of daily practice for each hour of credit.

### Applied Music Teacher Assignment

Each entering student will be assigned to an applied music instructor. If the student prefers to choose his/her own teacher, every effort will be made to accommodate those students who wish to choose their own teachers. If, for any reason, students desire to change applied music teachers, they shall address their request in writing to the appropriate department chair. The action taken must depend upon the circumstances in each instance.

### Applied Music Examinations

Students requesting credit for applied music study shall be examined by a committee of the faculty at the end of each grading period. Literature presented for examination may not be repeated in whole or in part at a subsequent examination.

For the sophomore evaluation applied examination, each student must perform eleven minutes of music consisting of a minimum of three pieces of varying styles. If the length of the selected works will not allow three pieces to be heard within the allotted time, the student should consult with the applied teacher to select appropriate cuts or stopping points. If a composition has an accompaniment, it must be performed with accompaniment. At least one of the pieces on the jury must be with accompaniment (with the exception of keyboard instruments, guitar, and harp).

Faculty may grade their own students on all applied exams, including the sophomore evaluation applied examination.

For all applied exams, including the sophomore evaluation applied examination and graded recitals, the applied instructor shall have the right to raise or lower the jury or recital grade by one letter for the final grade; in cases where the student has failed to fulfill syllabus requirements, such as attendance, the instructor may lower the jury grade by more than one letter for the final grade.

### Applied Music Grade Requirements

A student pursuing a degree in music who does not receive a grade of "C-" or above on their instrument or voice at the end of any semester must repeat that level. If a grade of "C-" or above is not received at the end of the next semester's study, the student will not be allowed to continue study in the School of Music. Exceptions to this rule must be by written notice of faculty action.

### Attendance at Classes and Lessons

Students are expected to attend all classes and lessons. Attendance requirements will be stated in the syllabus.

Private lessons missed for any cause other than illness may not be made up. Lessons missed because of illness may be made up provided the instructor is given due notice.

Each instructor keeps a record of attendance for all his/her classes. Excessive absences should be reported to the Office of the Dean.

### Attendance at Recitals and Convocations

Recital attendance credit will only be given for designated recitals and concerts held at the School of Music, for events held during the 3:00 p.m. Thursday Convocation hour and for a maximum of two professional off-campus concerts. No recital attendance credit will be given for events scheduled during Area Meeting times. (Thursdays at 3:00 p.m. are reserved for General Convocations. The 3:00 p.m. hour on Mondays, Tuesdays and Wednesdays is reserved for Area Meetings or Studio Classes as determined by the student's department.)

Students will receive either an "S" (Satisfactory), "U" (Unsatisfactory) or "I" (Incomplete) for the course. In order to receive an "S," students must receive at least fifteen (15) recital attendance credits per semester. A maximum of three (3) of these may be performances in which the students themselves participate. If a student is lacking from one to four recitals of the number required for a satisfactory grade within a semester, the student will receive an "I," and the missing recitals may be made up by attending extra recitals the next semester (beyond that semester's required fifteen recitals) according to the following plan:

- attend 3 extra recitals to make up 1 missed recital
- attend 4 extra recitals to make up 2 missed recitals
- attend 6 extra recitals to make up 3 missed recitals
- attend 8 extra recitals to make up 4 missed recitals

If a student fails to attend the designated number of extra recitals within the next semester, the "I" grade will be changed to "U," and the student must repeat the entire semester of Recital Attendance. If a student is lacking five or more recitals of the number required within a semester, the student will receive a "U" and must repeat the entire semester of Recital Attendance. No petitions will be considered. Designated recitals and concerts include the following:

- Faculty recitals
- Senior or Master's degree recitals
- School of Music concerts given by the school's major ensembles (Symphony Orchestra, Symphonic Band, Early Music Ensemble, Opera Theater, Collegiate Chorale, Pep Band, New Music Ensemble, Marching Band, Jazz Ensemble, Concert Band, Wind Symphony, Wind Ensemble, University Chorus)
- A maximum of four concerts given by the school's minor ensembles (Piano/String/Woodwind/Brass Chamber Ensembles, Stage Band, Jazz Combo, Vocal Jazz Ensemble, Clarinet/Flute/Guitar/Harp/Horn/Irish Music/Percussion/Sackbutt/Saxophone/Trombone/Trumpet/Tuba-Euphonium Ensembles, Community Band, Opera Workshop)
- Student composer concerts
- One musicale per semester sponsored by Delta Omicron
- One musicale per semester sponsored by Phi Mu Alpha

In addition, the following events held in the School of Music Building are acceptable:

- Guest artist recitals
- New Music Festival
- Louisville Orchestra concerts
- Chamber Music Society of Louisville
- Hattie Bishop Speed Endowed Concert Series
- Louisville Bach Society
- Kentucky Center Chamber Players
- Ceruti Chamber Players
- Ars Vocalis

Students wishing to count off-campus concerts must submit a ticket stub and program from the concert, and a one to two page concert review within one week of the event. This material should be submitted to the Associate Dean.

Six semesters of convocation and recital attendance with a grade of "S" will be required to complete the recital attendance requirements for any bachelor's degree.

The rules and regulations concerning recital and convocation attendance will apply to all full-time undergraduate students. Part-time students will be required to attend fifteen (15) convocations or recitals for each fifteen hours of credit earned.

Students are encouraged to attend concerts over and above the fifteen required events, both on and off campus.

### Convocation Performance

All students are required to perform on one general convocation or area meeting per semester after classification. Applied majors are required to have a minimum of six general convocation performances during the course of their undergraduate degree. Applied principals are required to have a minimum of three general convocation performance during the course of their undergraduate degree. Students are encouraged to use a solo recital or solo performances with major ensembles, and major opera roles to satisfy the convocation performance requirement. A Convocation Performance Form must be put into the student's file for each completed performance. It is the responsibility of the student to see that the form is submitted to the office within one week of the performance.

Minor ensemble or non-required solo convocation performances should not take place during the last two weeks of a semester.

### Electives

Music electives in any Bachelor of Music degree should be chosen from courses in Music History, Music Theory/Composition, Music Education, Music Literature, Music Pedagogy, Music Therapy, Jazz, a secondary applied area or a non-required ensemble. Courses beyond the degree requirement in the student's major applied area or in the required major ensemble(s) are not appropriate.

For the Bachelor of Arts degree, in addition to the electives listed for the Bachelor of Music, applied music courses beyond the required four semesters are acceptable as music electives.

MUH courses will not be accepted as music electives.

School of Music students may count up to two one-hour Physical Education courses toward the general elective requirement.

### Enrollment

In order to take music courses, students must be enrolled in the School of Music or have permission of the instructor.

### Final Exam Policy

It is a School of Music policy that no student may be required to take more than two final examinations, including juries in the major applied area, within a 24-hour period. Students facing such conflicts should inform one or more of their instructors of the situation as early in the semester as possible. Students have a right to expect that their instructors will accommodate them by scheduling a makeup examination in one of the courses. In the event of difficulty in making such arrangements, students should consult the Associate Dean of the School of Music.

### Independent Study

Students may, with permission of the Department Chair and the Dean, register for Independent Study in a particular department. The student must have a grade point average of 3.0 and at least sophomore standing. Independent Study consists of a project conducted under the direction of a faculty member. Independent Study should not duplicate courses that are regularly offered. Students obtain forms for Independent Study from the School of Music Academic Counselor, to whom the completed forms with required signatures must be returned at the time of registration along with a copy of the course syllabus. Credits earned through Independent Study are counted in the regular load.

### Official Notices

Students must respond to official notices issued by administrative boards or sent by individual letters. Failure to comply may lead to suspension from the school. During the semester, an instructor shall notify each student whose work is below the grade of "C" and shall report his/her name to the Dean.

### Participation in Ensembles

The following are the guidelines by which undergraduate music students participate in ensembles:

1. All full-time undergraduate music majors are required to participate each semester in the principal ensemble designated for their primary performance area:
  - Strings: Symphony Orchestra
  - Woodwind, brass or percussion: Symphonic Band, Concert Band, Wind Ensemble, Wind Symphony, Marching Band \*
  - Voice: Collegiate Chorale, University Chorus \*
  - Keyboard/Guitar: Any of the above dependent upon qualifications and/or interests. \*

Full-time students who fail to enroll for a major ensemble each semester will be in violation of the catalog and subject to academic action.

*\* Specific ensemble assignment is solely dependent on the result of the ensemble audition.*

**Note:** The principal ensemble is the only ensemble that can fulfill the ensemble requirement for each degree program.

2. For all part-time students, participation in a principal ensemble must keep pace with the number of hours accumulated. For each 15 hours completed, at least one credit hour must be in ensemble.
3. Full-time non-degree (special) students must participate in an appropriate principal ensemble. Part-time non-degree students are not required to do so.

4. Under no circumstances will participation in amateur, semiprofessional, or professional organizations outside the University be substituted for the University requirement.
5. After admission to Senior College, the student may petition to have a different major ensemble substituted for the designated principal ensemble. The petition must be made prior to the ensemble auditions for the semester during which the substitution will take place. The petition will be considered by the Ensemble Directors' Committee, and the student will be notified of the committee's decision prior to ensemble auditions. The committee will consider the following criteria, among others:
  - a. Student's degree program
  - b. Needs of the ensembles

**Note:** Substitution for principal ensembles is considered an exception to the guidelines for ensemble participation. Petitions must be submitted for each semester of substitution.

6. Wind/brass/percussion principals enrolled in the Bachelor of Music (Pre-Certification-Instrumental) or Bachelor of Music in Music Education degree programs are required to fulfill two years of ensemble performance in the Marching Band. Entering students will be expected to fulfill this requirement during the freshman and sophomore years. Transfer students will be required to fulfill a minimum of one year. A second year may be required based upon evaluation of the transcript.

#### Major Ensembles

The following ensembles are designated as major ensembles with students eligible for one (1) hour of credit for participation. They are open to all qualified students of the University after consultation with the director.

- Black Diamond Choir
- Collegiate Chorale
- Concert Band
- Jazz Ensemble
- New Music Ensemble
- Early Music Ensemble
- Marching Band (Fall only)
- Opera Theatre
- Pep Band (Spring only)
- Symphony Orchestra
- Symphonic Band
- University Chorus
- Wind Ensemble
- Wind Symphony

#### Minor Ensembles

The following ensembles are designated as minor ensembles providing students with one-half (0.5) hour of credit for participation. These are open to all qualified students of the University after consultation with the director.

#### Chamber Ensembles:

Students register for chamber ensemble under the section number assigned to the faculty member coaching the group.

- Brass
- Brass Quintet
- Clarinet
- Flute
- Harp
- Historical Instruments
- Piano
- String
- Woodwinds

#### Conducted ensembles:

Standing organizations are listed below:

- Community Band
- Guitar Ensemble
- Horn Ensemble
- Irish Music Ensemble
- Instrumental Jazz Combo
- Jazz Improvisation
- Opera Workshop
- Percussion Ensemble
- Sackbutt Ensemble
- Saxophone Ensemble
- Trumpet Ensemble
- Trombone Ensemble
- Tuba/Euphonium Ensemble
- Vocal Jazz Ensemble

Cardinal Singers is an ensemble open to all qualified students of the University after consultation with the director yielding one-half (0.5) hour of credit.

#### Public Performance

Students are encouraged to be active in public performance and should consult their applied teacher in preparing for their performances.

#### Public Recitals

School of Music students may schedule recitals any day when the recital halls are free and the building is open, provided they have the approval of their instructor and the necessary signatures of appropriate faculty for grading when applicable.

Before a student schedules a recital, the student must obtain a syllabus from the applied teacher. The syllabus will outline the following steps:

#### Guidelines for Degree Recitals

1. A Recital Reservation Form must be submitted within two weeks of the date the recital is tentatively scheduled or the date will be released. This form must include:
  - a. the teacher's signature.
  - b. the names and signatures of all performers (except for composition recitals).
  - c. the names and signatures of the recital committee.
  - d. the specific repertoire.
    - (1) Performance and pedagogy degree recitals are expected to include music from several different style periods; at least one 20th century work is to be included, when possible by a living composer. Performance time must be a minimum of 50 minutes for undergraduate recitals and 60 minutes for graduate recitals.

- (2) For composition degree recitals, all works must be by the student presenting the recital. Performance time must be a minimum of 50 minutes.

- (3) Practicums by Master of Music candidates in conducting must be a minimum of 30 minutes. In some cases, it may be necessary to consider a conducting practicum a cumulative effort including performances from more than one concert, with a minimum of 30 minutes of music.

2. The recital committee shall consist of a minimum of three faculty members:

- (1) the student's applied teacher,
- (2) an additional faculty member from the student's applied area, and
- (3) a faculty member from a different department. For graduate recitals, the committee must include at least one member of the Graduate Faculty. The committee will hear the recital and grade it.

3. Recital Approval Process:

- a. For performance and pedagogy degree recitals, a hearing will be required at least four weeks in advance of the recital date, to be heard by the applied teacher plus two other faculty members. The student, in consultation with the applied teacher, is responsible for arranging the hearing. The student must bring a Recital Hearing Form, listing the recital program to the hearing, and must immediately submit the completed form to the Dean's Office.
- b. For composition degree recitals, the student must show all scores and parts to the private teacher and one other composition faculty member who will verify that all necessary materials are complete and of an acceptable quality for rehearsal and performance. This review committee must sign the Composition Recital Approval Form, which must include the names of all performers, at least four weeks in advance of the recital date. The student is responsible for obtaining the necessary signatures by the designated date and submitting the form to the Dean's Office.
- c. For conducting practicums, the hearing shall consist of attendance at rehearsal(s) of the ensemble(s) preparing the practicum by the applied teacher, plus two other faculty members between one and three weeks in advance of the recital date. The student, in consultation with the applied teacher, is responsible for disseminating a rehearsal

schedule to members of the hearing committee. The student must bring a Recital Hearing Form, listing the recital program to the rehearsal(s), and must immediately submit the completed form to the Dean's Office.

4. At least three weeks in advance of the recital, the student must submit a completed Recital Program Form, with the teacher's signed approval, to the Dean's Office for printing. Conducting students must submit the signed Recital Program Form to the Dean's Office immediately after the hearing.
5. All students presenting degree recitals are required to write program notes. For vocal works, the program must also include the original texts and English translations. Program notes must be reviewed at least five weeks before the recital date by the applied teacher and one other faculty member. The program notes must receive signed approval by both reviewers before being submitted for printing. This material must be submitted on a floppy disk or scannable copy to the Dean's Office at least three weeks in advance of the recital.
6. In accordance with the catalog, a student must enroll in applied lessons (or conducting seminar for conducting practicums) during the semester in which the recital is presented.
7. The student is guaranteed at least 3 hours of rehearsal in the appropriate recital hall.

#### Guidelines for Non-degree Recitals

1. A Recital Reservation Form must be submitted to the Dean's Office within two weeks of the date the recital is tentatively scheduled, or the date will be released. This form must include:
  - a. the teacher's signature.
  - b. the names and signatures of all performers.
  - c. the names and signatures of the grading committee, if one is required.
  - d. the specific repertoire. Note: The tentative date will not be published.
2. At least three weeks in advance of the recital the student must:
  - a. confirm the recital date with the Dean's Office. The applied teacher's signed consent is required. The confirmed date will then be published.
  - b. submit the recital program for printing, with the teacher's signed approval.
3. If the performer wishes to include program notes (not required for non-degree recitals), they must be submitted on a floppy disk to the Dean's Office at least three weeks in advance of the recital. All program notes must be approved by the applied teacher.

4. If the recital is intended to take the place of a jury, the recital shall be graded by a committee of three faculty members.

#### Additional Guidelines For All Recitals

1. A required or nonrequired recital of a minimum of 30 minutes of music may take the place of the jury at the end of the semester in which the recital is given, but with the following restrictions:
  - a. a student must appear for a minimum of one jury per year.
  - b. a recital may not replace the Sophomore Examination.
  - c. a substitution cannot be made if there is an application for advanced standing.
2. The above stipulations do not apply to those students whose teachers desire that they perform in programs not announced or open to the general public.

#### Teaching

Students wishing to teach should confer with their applied teacher.

**Note:** Teaching in the Music Building is strictly prohibited except under the auspices of the Preparatory Department or collegiate programs of the School of Music

## Faculty

### Professors

Robert Amchin, Ph.D.  
University of Michigan  
Coordinator, Music Education/Music Therapy

John S. Ashworth, D.M.A.  
Stanford University  
Distinguished Teaching Professor  
Music History

Paul R. Brink, Ph.D.  
The Ohio State University  
Theory and Composition

Jean M. Christensen, Ph.D.  
University of California, Los Angeles  
Coordinator, Music History

Anne Marie de Zeeuw, Ph.D.  
The University of Texas at Austin  
Distinguished Teaching Professor  
Theory and Composition

Christopher P. Doane, Ph.D.  
The Ohio State University  
Dean

Donn Everette Graham, M.A.T.  
Colorado State University  
Voice

Brenda Kee, D.M.A.  
University of Michigan  
Coordinator, Keyboard/Vocal Performance  
Piano

Herbert L. Koerselman, D.M.A.  
University of Iowa  
Trumpet

Karen Little M.M., M.L.S.  
Indiana University  
Director, Music Library

Peter McHugh, M.M.  
University of Louisville  
University Scholar  
Violin

Naomi J. Oliphant, D.M.A.  
University of Michigan  
Associate Dean  
Distinguished Teaching Professor  
Piano

Steven Rouse, D.M.A.  
University of Michigan  
Coordinator, Theory and Composition

Frederick Speck, D.M.A.  
University of Maryland  
Director of Bands; Composition

Edith Davis Tidwell, M.M.  
University of Louisville  
Distinguished Teaching Professor  
Voice

Michael Tracy, M.A.  
University of Louisville  
Director of Jazz Studies  
Saxophone

Michael H. Tunnell, D.M.A.  
University of Southern Mississippi  
Distinguished Teaching Professor  
Trumpet

Barbara L. Wheeler, Ph.D.  
Fordham University  
Director of Music Therapy

### Associate Professors

Richard Dugger, Ph.D.  
University of North Texas  
Music Education and Band

Kent E. Hatteberg, D.M.A.  
The University of Iowa  
University Scholar  
Director of Choral Activities

D. Bruce Heim, M.M.  
University of Tulsa  
University Scholar  
French Horn and Theory

John R. Jones, Jr., M.M.  
University of Illinois  
Tuba and Euphonium

John La Barbera, Diploma  
Berklee College of Music  
Music Industry and Jazz Studies

Marc T. Satterwhite, D.M.  
Indiana University  
Theory and Composition

Gerald H. Tolson, M.M.E.  
University of North Texas  
Music Education and Jazz

Paul A. York, M.A.  
University of California, Santa Barbara  
Cello and Theory

### Assistant Professors

Gregory P. Byrne, D.M.A.  
The University of Alabama  
Director of Marching Band; Percussion

Kimcherie Lloyd, M.M.  
Louisiana State University  
Director, Orchestral Studies and Opera

Seow-Chin Ong, Ph.D.  
University of California at Berkeley  
Music History

Brett A. Shuster, D.M.A.  
Arizona State University  
Trombone

Dallas W. Tidwell, M.M.  
University of Louisville  
Clarinet

Daniel Weeks, M.M.  
Florida State University  
University Scholar  
Voice

**Lecturers**  
Jamey Aebersold, M.M.  
Indiana University  
Jazz

Leanna Booze, D.M.A.  
University of Cincinnati College-  
Conservatory of Music  
Oboe

Daniel S. Boring, M.A.  
Ithaca College School of Music  
Guitar

Vernon Cherrix, D.M.A.  
Southern Baptist Theological Seminary  
Piano and Piano Pedagogy

Jim Connerley, M.M.  
Indiana University  
Jazz Piano

Elaine H. Cook, M.M.  
San Francisco Conservatory of Music  
Harp

Melvin Dickinson, M.M.  
University of Kentucky  
Organ

Christian Frederickson, M.M.  
Juilliard School  
Viola

Donald Gottlieb, B.M.E.  
Baldwin-Wallace College  
Flute

Karen K. Griffin, M.M.  
University of Louisville  
Piano

John P. Karr, Ph.D.  
University of Kentucky  
Music History

Kathleen Karr, M.M.  
State University of NY at Stony Brook  
Flute

Matthew Karr, M.M.  
State University of NY at Stony Brook  
Bassoon

John W. Kays, Ph.D.  
University of Kentucky  
Music History

Sidney King, B.A.  
Indiana University  
String bass

Brian Kushmaul, M.M.  
Temple University  
Percussion

John Moore, MM  
Florida State University  
Saxophone

Michael Neely, M.M.E.  
University of Louisville  
University Chorus and Music  
Education

James Rago, M.S.  
Juilliard School of Music  
Percussion

Marcus Ratzenboeck, M.M.  
Indiana University  
Violin

Jason Tiemann, M. M.  
University of Kentucky  
Jazz Percussion

Krista B. Wallace-Boaz, M.M.  
Northwestern University  
Class Piano

Tyrone Wheeler  
Jazz Bass

Suzanne E. Willis, M.M.  
Indiana University  
Music History

Timothy Zavadii, M.M.  
Northwestern University  
Clarinet



# School of Nursing

## Admission Policies

### Admission to the Prelicensure Program Option

High school graduates and transfer students with less than 24 hours of credit may be admitted directly to the School of Nursing's Lower Division (Pre-Professional Curriculum). Applications may be obtained from the School of Nursing Office of Student Services or from the University's Office of Admissions. **Admission to the Lower Division does not guarantee admission to the Upper Division (Professional Curriculum).**

Students seeking admission to the pre-licensure program through the Accelerated BSN Option for Second Degree Students will follow the admission policy described for transfer students.

### Lower Division

#### Admission in Good Standing

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

- graduation from an accredited high school with a grade point average of 2.5 or higher, have a GED, or equivalent by petition (for example, home school education).
- completion of the pre-college curriculum
- composite ACT scores at or above 21.

#### Admission in Conditional Standing

Students with a composite ACT score of 19 or 20 and who meet admission requirements a and b (above) may be admitted in conditional standing.

Students in conditional standing become students in good standing if their University GPA is 2.5 or above after completion of their 1st semester. The University Grade Point Average (University GPA) is based on all college-level undergraduate courses taken at the University of Louisville. Admission in conditional standing is to be considered the students' academic warning according to the academic warning, probation, and suspension standards. Students will be placed on probation if after completion of their 1st semester their university gpa is less than 2.5.

### Transfer Students

#### Admission in Good Standing

Transfer applicants with 24 hours or more must have a college grade point average of 2.5 or higher to be admitted in good standing.

### Admission in Conditional Standing

There is no conditional admission for transfer students.

### Intra-University Transfer Students

Students who have completed at least one semester in another school of the University and have a gpa of 2.5 or above may apply for an intra-university transfer to the School of Nursing. They must complete an online IUT application that can be found at: [www.louisville.edu/provost/iut](http://www.louisville.edu/provost/iut). Students admitted through this process must be advised before registering for courses in their first semester in nursing program.

### Guaranteed Early Admission

Students selected for early admission will be required to maintain a specific GPA in the Lower Division and will agree to begin Upper Division courses for a specific semester. Ten spaces are reserved for high school seniors who will be first-time freshman at

U of L in the Fall semester. In the Spring, ten spaces are reserved for freshmen students who have successfully completed the first semester of full-time course work and meet the GPA requirement.

### Criteria for Guaranteed Admission

To be considered as a high school senior for Guaranteed Early Admission to the Upper division, an applicant must:

- Have an ACT of 25 or higher
- Have a high school GPA of 3.0 or higher
- Submit a letter of recommendation from high school guidance counselor
- Submit an essay of 500 words or less describing your interest in a career in Nursing
- Accept a start date to begin Upper Division course for a specific semester
- Maintain a cumulative GPA of 3.0 or higher each semester of enrollment in the Lower Division

To be considered as a Lower Division freshman for Guaranteed Admission to the Upper division, an applicant must:

- Successfully complete one full-time semester of required Lower Division courses at the 100 level or above with a cumulative GPA of 3.0 or higher (including at least one required science course)
- Submit an essay of 500 words or less describing your interest in a career in Nursing
- Accept a start date to begin Upper Division courses for a specific semester
- Maintain a cumulative GPA of 3.0 or higher each semester of enrollment in the Lower Division

### Admission to the Upper Division

Admission to the Upper Division is competitive. To be considered for admission, applicants must: (BOLD)

- have completed the Pre-Professional Curriculum or be in last semester of completion. (see Degree Programs-Nursing)
  - have earned a cumulative and/or pre-professional program grade point average of 2.5 or higher The cumulative GPA for admission to Upper Division Nursing is calculated based on all course work completed at accredited post-secondary institutions. The pre-professional program cumulative GPA is based on all required pre-professional curriculum course work.
- (Note: Required science, Nutrition and English grades must be "C" or higher. Science courses must have been completed within the last 10 years. Students must submit to the Associate Dean for Academic Affairs an application for acceptance of sciences taken prior to the last 10 years. Transfer credit for science courses taken prior to the last 10 years will be evaluated on an individual basis.)

- submit a University of Louisville Undergraduate Application if new to U of L OR submit an Intra-University Transfer(IUT)Request if already enrolled in school other than the School of Nursing at U of L

Upper division applicants who are not enrolled in the School of Nursing Lower Division are required to have an advising session with a lower division advisor at least 4 weeks prior to the application deadline. Call 852-1196 for appointment.

- complete the Applicant Data Sheet
- submit a written essay, narrative, or short story describing your personal qualities and how they fit you for a career in nursing, your perception of the nursing field and what influenced you to select nursing as a career
- complete the interview process (if requested)

There can be no outstanding Incompletes prior to beginning nursing courses.

Applications and credentials must be received by the following deadlines.

Applications cannot be considered by the School of Nursing until the University of Louisville Undergraduate application has been processed:

- February 1 for Summer admission
- September 15 for Spring admission

Applications may be obtained from the School of Nursing website ([www.louisville.edu/nursing](http://www.louisville.edu/nursing)). If there are any questions, contact the School of Nursing office.

A student lacking one or more of the admission requirements may file a petition through the Office of Student Services. The petition will be considered by the Academic Affairs Committee.

### Admission to Accelerated 2nd Degree BSN Option

Non-nurse students who have a baccalaureate degree or higher apply for admission to the Accelerated 2nd Degree BSN Option. There are three parts in the admission process for this option:

- Part I:** Transcript evaluation. To begin the admission process, applicants are required to meet with a School of Nursing advisor for a transcript evaluation and development of a Program of Study (POS). To schedule an appointment, please call 852-1196. Minimum requirements are:
- must have a bachelors degree from an accredited college or university
  - must have a cumulative grade point average of 2.5 (on a 4.0 scale) or above on all college work.

- Part II-Acceptance to Clinical Cohort** (A clinical cohort is defined as the group of students starting Upper Division nursing for Summer of a designated year, i.e. Summer 2005, Summer 2006, etc.). Admission to the Clinical Cohort is competitive and based on availability. To be considered for acceptance to the clinical cohort, applicants must:
- complete and submit to the School of Nursing all parts of the Applicant Data Sheet
  - participate in the interview process (if invited)
  - have a commitment to complete the prerequisites and the accelerated clinical courses as scheduled in the POS.

Mailing Address  
School of Nursing  
Health Sciences Campus  
University of Louisville  
Louisville, KY 40292

Telephone Number  
Office of Student Services  
(502) 852-5366  
Web Address  
[www.louisville.edu/nursing](http://www.louisville.edu/nursing)

Review of application materials will be conducted three times a year until all available spaces are filled for a particular summer clinical cohort. The Applicant Data Sheet must be received by the following deadlines:

- February 1
- May 1
- September 15

The Academic Affairs Committee must evaluate applicants for acceptance to a clinical cohort. The committee decision will be communicated to the applicant by letter. Approved students will receive a letter of agreement stating the anticipated start date, the conditions for accepting the space, and consequences of failing to keep the space. The letter of agreement must be signed and returned within 10 working days of receipt to assure a space in the clinical cohort.

All qualified students who meet admission criteria but are not accepted into the requested clinical cohort due to space constraints should meet with their advisor.

**Part III-Requirements to Begin Upper Division Clinical Sequence.** Prior to beginning the clinical sequence, students must:

- complete prerequisite courses and maintain a grade point average of 2.5 or higher. This includes any distance education courses.
- For degree applicable credits taken through an institution other than the University of Louisville, a transcript or letter documenting successful course completion must be received before beginning the clinical sequence
- submit a University of Louisville Undergraduate application, if not already done
- have no outstanding incompletes

Accelerated Second Degree clinical nursing courses begin in summer only.

Applications may be obtained from the School of Nursing website ([www.louisville.edu/nursing](http://www.louisville.edu/nursing)). If there are any questions, please call the Office of Student Services at 852-1196.

A student lacking one or more of the admission requirements may file a petition through the Office of Student Services. The petition will be considered by the Academic Affairs Committee.

Applicants who do not qualify or waive their admission to a clinical cohort have no guaranteed progression timeline. These students must meet with the Accelerated Second Degree advisor to revise their program of study and re-apply for another clinical cohort. (Call 852-1196 for appointment)

**Admission to the Accelerated RN-BSN Option**  
Registered Nurses apply for admission to the Accelerated RN-BSN option. There are two divisions in the Accelerated RN-BSN Option:

**Lower Division RN-BSN Students.** Students registering for prerequisite or general education coursework required prior to beginning the nursing curriculum. (see Degree Programs-Nursing)

**Upper Division Students.** Students who have met all required prerequisite and general education coursework and are ready to begin nursing curriculum.

Applicants are required to make an appointment with the RN Advisor at 8521196 for transcript evaluation and advising. To be admitted, all applicants must:

Submit a University of Louisville Undergraduate application

- have a cumulative grade point average of at least 2.5 on all college work

(**Note:** Required science, Nutrition and English courses must be "C" or higher.)

- have Registered Nurse license in the state of Kentucky (without restrictions)
- complete all parts of the Applicant Data Sheet
- submit a written essay, narrative, or short story describing your personal qualities, and your short and long term goals regarding your nursing career
- have a commitment to complete the accelerated nursing courses in a 15 month time period.

There can be no outstanding Incompletes prior to beginning nursing courses.

Applications and credentials must be received by the following deadlines.

Applications cannot be considered by the School of Nursing until the University of Louisville Undergraduate application has been processed:

**Lower Division Admission Deadlines**

- February 1 for Summer admission
- May 1 for Fall admission
- September 15 for Spring admission

**Upper Division Admission Deadline**

- February 1 for Summer admission

Accelerated RN-BSN Upper Division Nursing courses begin in fall semester only.

Applications may be obtained from the School of Nursing website ([www.louisville.edu/nursing](http://www.louisville.edu/nursing)). If there are any questions, contact the School of Nursing office at 852-1196.

A student lacking one or more of the admission requirements may file a petition through the Office of Student Services. The petition will be considered by the Academic Affairs Committee.

**International Student Applicants**  
Please refer to the University guidelines printed in this catalog with regards to International Student Applicants.

## Orientation

Students admitted to the Lower Division of the School of Nursing will be issued a certificate of admission by the University's Office of Admissions. Freshmen students and transfers with less than 24 credit hours will be required to attend a new student orientation. Students admitted to the Upper Division of all BSN programs, will be required to attend an orientation conducted by the School of Nursing.

Clinical requirements to begin Upper Division of all BSN Programs (BSN, Accelerated RN-BSN or Accelerated 2nd Degree BSN)

Admission to the Upper Division is competitive. --Delete this statement) Before beginning the first clinical course any BSN program, students must be in compliance with the following clinical requirements:

- submit documentation of successful completion of a Nursing Assistant course\* or equivalent training OR
- valid Kentucky RN license with no restrictions for students in Accelerated RN-BSN program
- submit documentation of CPR certification (Adult, Child and Infant).
- submit a health screening questionnaire
- submit proof of student nurse liability insurance coverage
- submit required immunization records and proof of health insurance coverage to the Student Health Services (call 852-6446 for additional current information on requirements)

Additional information on clinical requirements is published in the Undergraduate Student Handbook.

- Pre-licensure students are required to show completion of a formalized Nursing Assistant training program that allows accomplishment of the goals of the State approved curriculum for Long Term Care Assistance Medicaid Skill Guide. Advising Policies and Requirements

It is the student's responsibility to read the catalog, student handbooks, and official notices (e.g. University of Louisville School of Nursing web page, listservs such as "Blackboard", mailings) to be informed about grades, credits, and requirements, and to abide by the regulations of the University and the School of Nursing. Additional policies are published in the School of Nursing Undergraduate Student Handbook. This handbook is distributed to students upon admission to the Upper Division and is updated annually.

**Office of Student Services**  
The Office of Student Services (OSS) is available to assist students in planning their academic program and to provide students with information regarding policies, procedures, and general information.

The office is located in Rooms 3063-3066 in the K Wing Building. Office hours are 8:30 am to 5:00 pm Monday through Friday. The phone number is (502) 852-1196.

It is the student's responsibility to be knowledgeable of the policies and procedures, and to take the initiative in seeking help and advice. Students are encouraged to make an appointment with a member of the OSS staff whenever they have a question, a problem, or they do not know where else to go for assistance.

In addition, School of Nursing faculty members are available to counsel students on professional nursing concerns.

Students are required to come to the Office of Student Services for the following:

1. Advising and Referral to University Resources
2. Complete Withdrawal from all courses or School of Nursing
3. Schedule Changes
4. Leave of Absence Request
5. Evaluation of Transfer Credits
6. Repeat Options
7. Determination of Status
8. Application for Degree
9. Name/Address Changes - It is the student's responsibility to update any change in name, address, or telephone number. The student may complete a name/address change through the ULink option available from the U of L website at [www.louisville.edu](http://www.louisville.edu) or in the Registrar's Office on Belknap Campus or by calling that office at 852-6522.

## Academic Policies

**Catalog Year**  
The catalog years for this catalog are 2004 through 2006. The requirements, rules and policies therein are generally applicable to students who enroll at the University beginning with the Fall 2004 semester through the Summer 2006 term. The University and/or the School of Nursing reserves the right to change programs of study, academic policies, academic requirements, fees, schedules of courses, or the announced academic calendar without prior notice.

**Transfer Grade Acceptance**  
The University of Louisville recognizes appropriate course work completed at other accredited universities and colleges and accepts that work according to the principles set forth in the American Association of Collegiate Registrars and Admissions Officers Transfer Credit Practices and state law. Transfer work that is college-level, academic in nature and earned at appropriately accredited institutions

will be accepted and posted as credit earned (i.e., with no grade) and will be accepted as credit toward degree, consistent with program requirements in the School of Nursing.

Students in the School of Nursing must earn a minimum grade of "C" or better in required science courses, English courses, Nutrition, and all nursing courses.

#### **Transfer Equivalency Determination**

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

#### **Community College Transfer Limits Policy**

For the Bachelor of Science in Nursing degree, students must present at least sixty (60) semester credit hours earned at four-year institutions. Students must also meet residency requirements.

#### **Residency**

For the Bachelor of Science in Nursing degree, thirty (30) of the last thirty-six (36) semester credit hours must be completed at the University of Louisville.

#### **Awarding of Transfer Credit**

A student may achieve advanced standing through a variety of mechanisms. Therefore, students seeking advanced standing should seek advice from the Office of Student Services, School of Nursing, as soon as possible. Placement in nursing courses is on a space available basis. Individual evaluations include:

1. Courses from accredited colleges and universities
2. Course descriptions and outlines
3. CLEP examinations
4. Advanced Placement examinations
5. Portfolio documentation (Accelerated RN-BSN program only)
  - a. Students are required to take NURS 355 RN Portfolio Development and Evaluation for 3 credit hours at full tuition.
  - b. Students in the RN-BSN Accelerated Option are required to pay 1/2 the regular tuition for 15 credit hours of nursing equivalency upon successful completion of the portfolio course.

The School of Nursing has a ten year limit on sciences courses. Transfer credit for science courses taken prior to the last 10 years will be evaluated on an individual basis. Other transfer courses are evaluated on an individual basis for currency and equivalency to required courses in the nursing curriculum. Science, English, Nutrition, and nursing courses taken at another college or university must have been passed with a grade of "C" or better in order to be transferred into the nursing curriculum. Generally only courses equivalent to NURS 395 and NURS 338 can be transferred into the Professional Curriculum (Upper Division).

An Academic Counselor must oversee approval for all transfer credits for students in the Accelerated RN-BSN Option and the Accelerated BSN Option for Second Degree Students. A preliminary evaluation of previous college work may be accomplished prior to admission by making an appointment with an Academic Counselor. For RN-BSN students, transfer credit may be awarded for NURS 360, NURS 365, and NURS 375, if one or more of the courses was completed in an accredited BSN program within the 10 year time limit. No transfer credit will be awarded for any other Accelerated Nursing courses.

Awarding of Credit for Non-Traditional Work

#### **CLEP Examinations**

The School of Nursing awards credit on the basis of the College Level Entrance Examination Program administered by the College Entrance Examination Board. A candidate for admission to the Bachelor of Science in Nursing program may apply no more than 37 semester hours of CLEP credit toward the baccalaureate degree in nursing. The School of Nursing will accept CLEP credits as granted according to the pre-established standards of each University department responsible for the content area.

Refer to General Academic Information section of this catalog (Academic Facilities and Support Services, Testing Services) for more details. Awarding of Credit Through Placement Exams

The School of Nursing utilizes Advanced Placement Examinations to allow qualified RNs and other students with previous health-related education and/or experience to earn advanced placement and equivalency credit for Nutrition and Developmental Psychology. These examinations enable qualified students to accelerate their progression in the program. Students must be admitted to the University before they can take the placement exams. For more information about the advanced placement program, contact an Academic Counselor at 852-1196.

#### **Course Enrollment Policies**

##### **Enrollment Standards**

Enrollment units may establish grade point average standards that exceed the minimum grade point average requirements of the University. Students are strongly encouraged to familiarize themselves with the academic policies of the School of Nursing. Should an undergraduate student fail to meet these requirements, they may be subject to enrollment restrictions, course repetition requirements, other corrective interventions, and ultimately dismissal from the School of Nursing.

##### **Drop/Add Procedures**

Students wishing to alter their schedule of courses in any way must make the changes with the University's Registrar's Office. Failure to officially withdraw from a course may result in a grade of "F".

Any student who wishes to drop a nursing course or change from full-time to part-time study must be advised by OSS and course faculty. Students may not withdraw from any course after the published deadline in the Schedule of Courses without the approval of the Associate Dean for Academic Affairs.

##### **Late Complete Withdrawal After the Deadline**

Upon proper documentation of extreme circumstances, decisions for approval of late complete withdrawals may be made by the Associate Dean for Academic Affairs. Late complete withdrawals are those requested after the deadline to withdraw has passed and before the instructor has assigned a grade.

##### **Concurrent Registration in Another Institution**

If a student in the School of Nursing is also carrying work in another school within the University or elsewhere, the combined program of work in both institutions must not exceed 17 hours. In order to carry such work outside this school, the student must secure permission of the deans of both schools and must report the fact and the amount so carried to the Registrar's Office at the time of registration. Violation of this regulation may result in loss of credit.

##### **Minimum and Maximum Course Loads**

The minimum course load for a full-time student is 12 credit hours. The maximum load allowed for most students is 17 credit hours (additional hours may be taken with special permission from the Associate Dean for Academic Affairs). Any student taking less than 12 hours per semester (including summer semester) is considered a part-time student for that semester. Nursing students are required to take at least one course each fall and spring semester in order to remain in active status unless a leave of absence is requested and approved.

## Requirements for Minors

Nursing students may elect to pursue a minor in another field while majoring in nursing. Students interested in selecting a minor should consult the appropriate unit's advising center for guidance.

#### **Registration Procedures**

Students are strongly encouraged to participate in early registration to help ensure that space is reserved in the required courses. Early registration for fall and summer semesters is generally in April; early registration for spring semester is generally in late October through November. Consult the Schedule of Courses for specific dates.

Specific registration instructions will be listed in the Schedule of Courses for each semester. Additional registration information can be found in the Undergraduate Catalog under General Information.

Students are encouraged to meet with an advisor prior to registration if they need assistance in course selection. Freshmen students and transfers with less than 30 hours are required to be advised prior to registration. Students on conditional or probationary status must also be advised prior to registering for courses. Students who are out of sequence in their program of study must meet with their advisor to revise their program of study and apply for re-enrollment on a "space available" basis. Students in the Accelerated 2nd Degree BSN and Accelerated RN-BSN programs are required to be advised prior to enrollment in the their first semester of enrollment at U of L.

**NOTE:** Students who register for courses without having met prerequisites will have their registrations canceled and will be required to re-register on a space available basis.

#### **Pass/Fail Courses**

Students may enroll in a required course on a pass/fail basis only if the course is not offered for a letter grade (unless indicated otherwise in the curriculum plan). Credit will be granted if the course is completed successfully, but no quality points will be assigned. A student may not change his/her registration from pass/fail to letter grade or from letter grade to pass/fail without the signature of the instructor and academic counselor on a drop-add form.

## Auditing Courses

Audit status is offered only on a space-available basis. For that reason, students may not register for a class in an audit status during early registration, nor may a student change from a graded status to an audit status during that period. Students may register for classes in audit status during regular registration only with written approval of the instructor of the course. Students are allowed to change from audit to graded status or from graded status to audit status at any time from the beginning of regular registration through the last day to add a class so long as they have approval from the course instructor. Students are advised that such approval is the instructor's prerogative and that audit status may have implications for financial aid eligibility. Any change of status must be submitted on the form provided in the Schedule of Courses. Forms must be turned in to the Registrar's Office by the required date.

## Academic Bankruptcy

University of Louisville students who have been out of higher education for at least two years and then return to achieve a 2.50 grade point average or higher in the first 12 degree-applicable credit hours are eligible to apply for Academic Bankruptcy. All degree-applicable courses taken during the term in which the 12 hour minimum is attained will be considered in determining eligibility for bankruptcy. Under this policy, students (if approved) could remove one or more consecutive semesters of college work from their grade point average and semester hours completed calculation.

University of Louisville students are advised that while bankrupted course grades are removed from the calculation, the course work does remain a part of their permanent record and that the bankrupted work may be considered for financial aid purposes, NCAA purposes, and may be evaluated if applying for honors or graduate/professional study. Additionally, students must be aware that Academic Bankruptcy is an internal policy and the University of Louisville cannot guarantee how the work will be viewed by another university should the student choose to transfer. Students wishing to examine this option are advised to see an academic counselor in the Office of Student Services for details of the process. Bankrupt semesters will not apply toward enrollment semesters when determining catalog year. Bankruptcy may be declared only once.

## Academic Achievement Guidelines

### Grade Point Average

The University of Louisville calculates a University Grade Point Average which becomes the standard measure of performance and the official university calculation upon which academic decisions are made. The University Grade Point Average is determined at the undergraduate level, based upon all undergraduate course work taken at the University of Louisville. Courses numbered below the 100-level (000-099) taken in the 1998 Fall semester or after will not be used in the earned hours or University Grade Point Average calculation.

### Warning-Probation-Suspension

#### Undergraduate Academic Standards Policy

The University of Louisville communicates its expectations for undergraduate academic achievement through the Undergraduate Academic Standards Policy. Academic standards are determined by the faculties of the enrollment/degree-granting units. Applicable standards for continuation in a particular enrollment unit can be based upon grade point average, course specific achievement, and in some programs a professional/behavioral component. Academic Standards

#### Lower Division Progression

1. Good standing in the School of Nursing is a minimum University cumulative GPA of 2.5
2. Students who, after the first semester at U of L, have a cumulative University grade point average below 2.5 will be placed on Academic Warning. They will be notified that their achievement is below expectations and strongly encouraged to seek assistance, but no additional limitation will be placed on their registration for the next term.
3. In any semester subsequent to being placed on Academic Warning, a student whose cumulative University grade point average is below 2.5 will be placed on Academic Probation for the next semester (including Summer) in which the student enrolls. Students on Academic Probation are notified that their achievement is below expectations and are subject to course and/or credit hour limitations, specified course registration requirements, or other intrusive advising interventions as deemed appropriate by the School of Nursing.
4. Students on Academic Probation will have their records evaluated at the end of the probationary semester with one of the following outcomes:

- student whose cumulative University grade point average is above 2.5 will be restored to good standing.
  - student whose cumulative University grade point average is still below 2.5 but who earned a semester grade point average at or above 2.5 will be maintained on probation.
  - student whose cumulative University grade point average is still below 2.5 and who earned a semester grade point average below 2.5 will be placed on Academic Suspension and will be required to sit out at least one semester (summer terms excluded). If a student is admitted to any other college or university (including another academic unit within the University of Louisville), the credit that is earned during the suspension semester will not apply toward a degree granted by the School of Nursing.
  - Students who are suspended or dismissed by the School of Nursing are eligible to apply for admission to another unit and may be admitted if they meet minimum admission standards of that unit. Students who apply for admission to another unit may not enroll in any courses in the School of Nursing.
5. Readmission of suspended students is not guaranteed. In order to be considered for readmission, a student must submit an "Admissions Petition" and an "Application for Undergraduate Admission" to the Office of Admissions. The petition must be received by the School of Nursing Office of Student Services after being processed in accordance with University deadlines for submitting Admission Petitions (July 1 for Fall and November 1 for Spring terms). The petition should address the student's perception of the causes of poor performance; the steps the student has taken to address those causes; and a plan of action to return to good standing. Students who are granted reinstatement will be readmitted on probation.
5. No student will be reinstated more than twice; the third suspension is an Academic Dismissal.

#### Repetition of Courses

Students may repeat to replace a maximum of four (4) courses with grades of F, D, or C. For these four courses, only the last grade attained will be used in the grade point average calculation. Courses in which a grade of D or C was originally attained may be repeated only once under the repeat-to-replace option. Students are not required to repeat an F grade unless the course is specifically required for graduation. Students should be aware that all grades are displayed on the official transcript even

after the repeat. All Schools and Colleges within the University will honor any previously granted repeats from other Schools and Colleges within the University.

A repeat form must be filed to activate this option. For courses retaken for which this option is not requested, both grades will be used in the GPA calculation, but students cannot receive double credit in hours required for the degree.

#### Course Specific Policies

Students must earn a grade of "C" or above in the following courses (or their equivalents):

ENGL 101	Introduction to College Writing
ENGL 102	Intermediate College Writing
BIOL 257	Introductory Microbiology
BIOL 258	Microbiology Lab
CHEM 105	Chemistry for Health Professionals
HPES 303	Human Nutrition
BIOL 260	Anatomy & Physiology I
BIOL 261	Anatomy & Physiology II
BIOL 262	Anatomy & Physiology Lab

#### Repeating Anatomy and Physiology Courses

The following courses can be repeated only one time:

BIOL 260	Anatomy & Physiology I
BIOL 261	Anatomy & Physiology II
BIOL 262	Anatomy & Physiology Lab

Students who do not pass the course the second time will be dismissed from the program.

#### Upper Division Progression

Students admitted to the Upper Division of Nursing must earn a "C" or above in all nursing courses (NURS). Therefore, good standing in the Upper Division is a minimum cumulative University gpa of 2.0. Students admitted to the Upper Division are allowed to repeat a nursing course only one time. Students who earn a grade below "C" in two nursing courses, or a second attempt at a nursing course will be dismissed from the program. A student who wishes to repeat a nursing course should submit a Permit to Repeat Course form to the Office of Student Services, School of Nursing for approval.

Once permission is granted, the student will be allowed to repeat the course on a space available basis.

#### Suspension:

If suspended from the program, students must meet with their advisor to revise their program of study, request re-enrollment on a space-available basis, and plan to submit an Admissions Petition and official U of L Undergraduate application to the Office of Admissions in accordance with University guidelines. (See #5 under Lower Division Progression.) Re-admission is not guaranteed.

#### Dismissal:

If dismissed from the program, the student has the right to file a petition to be allowed to remain in the program. (See Student Petitions for petition procedures and process)

#### Petition Deadlines\*:

- Fall 2004-December 15, 2004
- Spring 2005-May 20, 2005
- Summer 2005-August 10, 2005

For 2005-06 petition deadlines (not available at date of publication), please call the Office of Student Services at 852-1196.

\*Subject to changes in University calendar

If the petition to be allowed to remain in the program is denied, dismissal from the program is permanent.

#### Student Petitions

A student wanting to be exempted from a School of Nursing policy should make an appointment with an Academic Counselor for advice and, if necessary, to file a petition. The Academic Counselor will submit the request to the Associate Dean for Academic Affairs, who will make the decision or determine that the Academic Affairs Committee should hear the petition. After hearing the petition, the Committee makes a recommendation to the Dean who makes the final decision.

A student may not petition to the Academic Affairs Committee for a change of grade in a course. However, the student may petition to the Committee regarding the fairness in which a grade was calculated. The Committee does not have the authority to recommend grade changes.

## Additional Academic Policies

#### Leave Of Absence

A student who needs to take a leave from coursework for a brief time period because of personal or family matters, maternity leave, etc. is required to request a leave of absence from the Associate Dean for Academic Affairs. Leaves of absence and conditions for return are granted at the discretion of the Associate Dean. Students are required to maintain continuous registration unless a leave of absence has been approved. Failure to request a leave of absence may result in dismissal from the program. Students are responsible for their own remediation for previously learned content upon returning to the program. Conditions for return include space available basis for admission into courses and compliance with any curriculum changes that may have occurred. Re-admission without an officially approved leave of absence is not guaranteed.

#### Program Progression After Prolonged Leave of Absence

Students who are not enrolled in nursing clinical courses for two or more consecutive semesters will need to have an Administrative Program Review to determine their currency of content and skills prior to returning. The program review will be conducted by an administrator and the Academic Affairs Committee.

#### Dean's List and Dean's Scholar

1. To be named to the Dean's List, a student must complete at least 12 hours of graded, earned credit during the semester (excluding grades of I, X, or P) with a minimum University Grade Point average of 3.5 in that semester.
2. To be named a Dean's Scholar, a student must complete at least 12 hours of graded, earned credit during the semester (excluding grades of I, X, or P) with a minimum University Grade Point average of 4.0 in that semester.
3. Grades from developmental course work (course number below 100) or cooperative education will be excluded from the calculation.

This policy does not affect graduation honors.

#### Incompletes

In the event a student is unable to complete the course requirements by the end of the semester, the instructor has the option to award "I" in place of the grade. "I" means Work in Course is Incomplete and does not enter into the grade computations until a grade is awarded or it becomes an "F." The student has until the end of the next Fall or Spring semester to complete the required course work. If the work is not completed by this deadline, the grade will automatically change to "F."

#### Attendance/Participation

The nursing program places emphasis on active learning and group methodology. Each student needs to be physically present and actively engaged in learning during the times scheduled for class, and other learning experiences. Some courses are designed on a cooperative learning community model so each student will be part of a smaller cohort and the larger class community. It is strongly encouraged that students not engage in other employment on the days course work is scheduled. A time schedule will be available at the beginning of each semester, but is for planning purposes and is subject to change to take advantage of unanticipated learning opportunities.

Students enrolled in nursing courses are notified by the faculty at the beginning of each course regarding procedures to follow in case of absence. Class and clinical attendance is an important part of the learning process. Course grades may be affected adversely by repeated

absence. It is the student's responsibility to inform the faculty and/or the clinical agency when he/she will not be present in the assigned setting. Faculty may require additional course work if a student misses assigned course activities.

**Independent Study**  
Contact Office of Student Services, School of Nursing, for information on independent study courses.

#### Permission to Enroll in a Course

In order to enroll in a course for which prerequisites have not been met, the student must secure permission from the course/clinical faculty. A petition to the Academic Affairs Committee may be required.

#### Removal from Clinical

A student may not participate in clinical sections assigned to nursing units or small agencies where the student currently works or previously has worked for pay, or in which the student has been hospitalized, without permission from the appropriate instructor. Any student participating in a clinical section addressed by this policy may be removed from that section at the request of the agency or the instructor. Every effort will be made to accommodate the student in other clinical sections of the courses. A student who is unsafe in the clinical area may be dismissed from the program.

#### Withdrawal Procedures

Students withdrawing from the nursing program should contact the Office of Student Services, School of Nursing, to complete the necessary forms (an exit interview may be required).

## Student Conduct, Discipline, and Grievance Procedures Specific to the School of Nursing

Representatives from administration, faculty, and students serve on the School of Nursing's Academic Affairs Committee. This committee reviews academic policies related to undergraduate nursing students. Student representatives have full voting rights except on confidential matters involving other students; in these cases the student representatives are excused. Students wishing to petition a School of Nursing policy should contact an Academic Counselor concerning procedure, students' rights and responsibilities, and appropriate steps to take for resolution within the unit.

The University of Louisville also has a Student Academic Grievance Policy designed to provide fair means of dealing with student complaints regarding a specific action or decision made by the faculty as a whole, a faculty member, or the unit. Students who believe they have been treated unfairly, discriminated against, or have had their rights abridged may initiate a grievance which shall be processed in accordance with the Student Academic Grievance Procedure pursuant to The Redbook. (See University of Louisville Student Handbook for more information.)

#### Academic Dishonesty Policy

The faculty view academic dishonesty to be a serious offense which is a violation of professional ethics. (Examples of academic dishonesty are provided within "The Code of Student Rights and Responsibilities," which is located in the "General Information" section of this catalog.) If the School of Nursing determines that a student is guilty of academic dishonesty, it may impose any academic consequence upon the student that it sees fit including suspension or dismissal from the School of Nursing. It is the student's responsibility to read "The Code of Student Rights and Responsibilities" to find out what is meant by academic dishonesty; a plea of ignorance is not acceptable as a defense. Please read the following which provides selected examples of academic dishonesty in the School of Nursing.

#### A. Cheating

Sending another student to gather information about the assigned clinical client without prior authorization by instructor.

Allowing another student to complete one's clinical responsibilities without the instructor's prior approval (i.e., having another student perform a clinical procedure, catheter care, tracheostomy care, etc., because of not being prepared for the responsibility).

#### B. Fabrication/Falsification

Inventing portions of a nurse's clinical notes, flow sheets, clinical logs or verbal reports (e.g. stating any clinical responsibility has been completed which has not).

Inappropriately changing the data entered on clinical notes, flow sheets, or clinical logs.

Intentional falsification of records (e.g. charting a false time on a medication record or recording a medication as given when it was not).

#### C. Multiple Submission

Submitting any written work or portion thereof for credit more than once without prior authorization by instructor (e.g. submitting a previously prepared care plan for a currently assigned client).

#### D. Plagiarism

Copying care plans directly out of care plan books without paraphrasing, modifying for an individual client, or giving credit for the source.

Submitting another student's work as one's own. (Clinical courses have numerous instructors who grade the papers for their own clinical groups. Example: Student A is in N340. Student A has a paper graded by one clinical instructor. The next semester Student A gives this paper to Student B who is now in N340 and has a different clinical instructor than Student A. Student B turns in this paper as own work). This is NOT allowed. Submitting papers obtained from the Internet is considered plagiarism and will not be allowed.

Any student who is determined to be guilty of plagiarism shall be given a grade of zero on the assignment. Any student who is believed to be cheating will be allowed to complete the assignment or exam and will be given an opportunity by the faculty member to present any evidence or information to refute the allegation. The student may be given a grade of zero on the exam or assignment if the faculty member determines academic dishonesty has occurred. The first offense on the part of the student will result in a written warning. The second offense may result in a recommendation for dismissal from the School. It is the student's responsibility to find out what is meant by academic dishonesty within the School of Nursing; a plea of ignorance is not acceptable as a defense.

*See the School of Nursing Undergraduate Handbook for procedures to be followed when academic dishonesty is alleged.*

#### Disability Statement

Students with disabilities who need reasonable modifications to successfully complete assignments and satisfy other course criteria are encouraged to meet with the instructor as early in the course as possible to identify and plan specific accommodations. Students may be asked to supply a letter from the Disability Resource Center or other documentation which will assist in modification planning.

#### Technical Standards For Performance in the Professional Nursing Educational Programs

Technical standards, distinguished from academic standards, consists of the minimum physical, cognitive, and emotional requirements for the full participation in the nursing educational programs. The nature of professional nursing education is to prepare practitioners to interact with clients and provide safe, competent nursing care. It is the responsibility of the faculty to regularly assess all individual student performance and abilities in relation to both the academic and technical standards of the program. Fitness for the profession will be based on an individualized assessment of the student's abilities to achieve an array of competencies essential for safe nursing practice.

#### Physical attributes

Students must have functional use of the somatic senses and the senses of vision and hearing.

Students must have the ability to observe through visual, auditory, and somatic senses.

Students must have adequate motor capabilities to safely perform required diagnostic and therapeutic maneuvers and procedures.

#### Communication Skills

Students must possess basic communication skills upon which to base the development of client-oriented professional communication.

#### Cognitive Functioning

Students must possess the cognitive abilities required to receive information, categorize, analyze, and manipulate data essential to the care of clients.

Students must have the ability to make decisions quickly, and to function effectively on a regular and predictable schedule.

#### Social and Behavioral Functioning

Students must possess social patterns of behavior consistent with safe and ethical practice with individual clients, families and groups of people.

Students must have the mental control to handle emotions that might affect practice performance.

#### General Education Requirements for the Prelicensure Option

The following courses are those approved to meet the general education requirements for the School of Nursing for Prelicensure students:

#### General Studies 101

NURS 101 S.T.A.T for Nursing Students (Campus Culture) (1 hr.), is required for all beginning freshmen in nursing and for transfer students with less than 24 semester hours completed.

#### Written Communication (WC)

Students are required to complete the following courses: ENGL 101-102 (or ENGL 105),

#### Oral Communication (OC)

Students are required to complete 3 hours from an approved list of oral communication courses available in the Office of Student Services.

#### Mathematics

Students are required to complete one of the following courses: MATH 107, MATH 111, MATH 112, MATH 180, MATH 190, MATH 205 or any higher number mathematics course.

#### Natural Sciences

Students are required to complete CHEM 105, BIOL 257, BIOL 258

#### Arts

Students are required to complete 3 hours from an approved list of Arts courses available in the Office of Student Services.

#### Humanities

Students are required to complete 3 hours from an approved list of Humanities courses available in the Office of Student Services Social and Behavioral Sciences Students must complete the following Social and Behavioral Science courses: PSYC 201, ECON 201, and 3 hours from an approved list of Historical Studies courses available in the Office of Student Services

#### Cultural Diversity

Students are required to take NURS 340 and 3 hours from an approved list of Cultural Diversity courses available in the Office of Student Services.

**NOTE:** Selected courses can cross count to meet more than one general education requirement. See advisors for recommendations.

#### General Education Requirements for the Accelerated RN-BSN Option

The following courses are required to meet the General Education requirements for Registered Nurse students in the Accelerated RN-BSN option:

#### Written Communication

(WC) ENGL 101 & ENGL 102 or ENGL 105

#### Oral Communication (OC)

Students are required to complete 3 hours from an approved list of oral communication courses available in the Office of Student Services.

#### Mathematics

Students are required to complete one of the following courses:

MATH 107, MATH 111, MATH 112, MATH 180, MATH 190, MATH 205 or any higher number mathematics course

#### Natural Sciences

Students are required to complete CHEM 105 and BIOL 257, BIOL 258

#### Arts

Students are required to complete 3 hours from an approved list of Arts courses available in the Office of Student Services.

#### Humanities

Students are required to complete 3 hours from an approved list of Humanities courses available in the Office of Student Services

#### Social and Behavioral Sciences

Students must complete the following Social and Behavioral Science courses: PSYC 201, ECON 201, and 3 hours from an approved list of Historical Studies courses available in the Office of Student Services

#### Cultural Diversity

Students are required to take NURS 470 and 3 hours from an approved list of Cultural Diversity courses available in the Office of Student Services.

**NOTE:** Selected courses can cross count to meet more than one general education requirement. See advisors for recommendations.

## Graduation and Degree Requirements

Students who plan to graduate at the end of a given semester must file an Application for Degree in the Office of Student Services, School of Nursing. The deadline for submission of forms is published in the Schedule of Courses for each semester. A candidate for the Bachelor of Science in Nursing must have fulfilled the following requirements:

1. Satisfactory completion of the required courses with a university grade point average of 2.0 or higher;
2. Discharge of all financial obligations to the University;
3. Submission of a completed Application for Degree by the printed deadline;
4. Completion of the PRE-RN licensure examination;
5. Completion of the BSN Outcome Evaluation Data Collection Tools.  
DELETE THIS

**Graduation With Honors**  
Baccalaureate degree students who have earned a minimum of 60 hours of degree credit in residence at the University of Louisville in the School of Nursing will be eligible for consideration to graduate with Honors. Commencement programs will list eligible students as "Candidates for Honors" based on a university grade point average of 3.5 or higher earned by the semester preceding the graduation semester. Final determination of a student's eligibility to graduate with Honors will be based on the student's standing upon confirmation of the degree. Criteria for Honors is as follows:

**"Cum Laude"** - the student must have earned a university grade point average of 3.5 to 3.74."

**Magna Cum Laude"** - The student must have earned a university grade point average of 3.75 or above.

**"Summa Cum Laude"** - The student must have earned a university grade point average of 3.75 or above and successful completion of the honors project or thesis.

**\*\*NOTE\*\*** Students not meeting the summa cum laude gpa, but who have completed the honors program receive School Honors.

## Delayed Class Schedule For Bad Weather

The School of Nursing follows the Delayed Class Schedule for Bad Weather which is printed in the Schedule of Courses and on the University's web page. Regarding clinical, students will abide by the instructions of their clinical faculty as to what procedure to follow in case of bad weather on a clinical day. The faculty member will provide this information in class and in the course syllabus.

## Student Health Policy

Each student must comply with the current health policy of the School of Nursing. Because of contractual agreements with agencies and the changing needs of society, this policy is updated periodically. The current health policies are published in the School of Nursing's Undergraduate Student Handbook. It is the responsibility of the student to maintain his or her health in order to ensure safety for other students and clients. If faculty or the agency deem that any student creates a health or safety risk, the student may be excluded from the clinical experience and/or program.

## Liability and Health Insurance

All students are required to show evidence of continuous professional liability insurance, which must be occurrence coverage and include \$1,000,000/\$3,000,000 occurrence/aggregate liability limits. For students who are registered nurses, the professional liability insurance must be under an insurance plan for registered nurses.

All students are required to have full health insurance coverage. Each student has the option of submitting proof of his/her own health insurance prior to beginning of each semester enrolled. If a student is injured during the clinical experience and medical care is needed, the student is responsible for all costs incurred. Students not already covered by a health insurance plan or have not submitted proof of health insurance coverage prior to the beginning of each semester enrolled, will automatically be enrolled in the University's Health Service plan.

**\*\*NOTE\*\*** This Policy regarding Liability and Health Insurance applies to students enrolled in the Upper Division and to the RN students enrolled in the accelerated nursing courses.

## Health Services Fee

On April 26, 1999, the University of Louisville Board of Trustees approved a Health Services Fee. Every HSC student will be assessed the \$80 Health Services Fee each semester.

Service provided by the \$80 fee:

- a. All pathogen exposure (TB and needle stick) to include outside labs, xray, and medications
- b. All visits to the Student Health Services (Belknap and HSC)\*
- c. Mental Health Services\*\*  
Medications, lab, or xray costs that might be associated with these visits are not covered by the \$80 fee.

## Policy on Clinical Attire

The University of Louisville School of Nursing expects the student entering any clinical agency to be neat, clean, and professionally attired. Specific regulations vary with the individual agency and agency policy will be followed. There may be additional requirements on uniform depending upon the agency policy. Some clinicals or assignments may require a more formal business attire to project the appropriate image. Final evaluation of student compliance with the dress code will rest with each faculty member. The current policy on clinical attire is published in the School of Nursing Undergraduate Student Handbook.

## Transportation

Students are responsible for providing their own transportation to and from clinical sites. Students are not allowed to provide transportation to clients.

## Faculty

### Professors

Linda H. Freeman, D.N.S.  
Indiana University

Marianne Hutti, D.N.S.  
Indiana University

Mary H. Mundt, Ph.D.  
Marquette University

Kay T. Roberts, Ed.D.  
Indiana University

Karen M. Robinson, D.N.S.  
Indiana University

Robert Topp, Ph.D.  
Ohio State University

Sally P. Weinrich, Ph.D.  
University of South Carolina

### Professor Emerita

Ruth B. Craddock, D.S.N.  
University of Alabama at Birmingham

### Associate Professors

Cathy Bays, Ph.D.  
University of Cincinnati

Carla P. Hermann,  
Ph.D. University of Kentucky

Vicki Hines-Martin, Ph.D.  
University of Kentucky

M. Cynthia Logsdon, D.N.S.  
Indiana University

Rosalie Mainous, Ph.D.  
University of Kentucky

Cynthia McCurren, Ph.D.  
University of Kentucky

Barbara Speck, Ph.D.  
University of North Carolina

### Assistant Professors

Deborah Armstrong, Ph.D.  
University of Kentucky

Tracey Gaslin, M.S.N.  
Troy State University

Eileen Grigutis, M.S.N.  
University of Wisconsin-Milwaukee

Carol Hoffman, M.S.N.  
Indiana University

Celeste Shawler, Ph.D.  
University of Kentucky

Diane Von AH, Ph.D.  
University of Alabama at Birmingham

Cheryl Zambroski, Ph.D.  
University of Kentucky

### Instructors

Marcia Coleman, M.S.N.  
University of Kentucky

Carrie Morgan, M.S.N.  
Vanderbilt University

Alona Pack, M.A., B.S.N.  
Webster University

Stanley L. Ridner, Ph.D.  
University of Kentucky

# J. B. Speed School of Engineering

## Administrative Officers of J. B. Speed School of Engineering

### Acting Dean

Mickey R. Wilhelm, Ph.D., P.E.

### Associate Dean for Academic Affairs

Michael L. Day, Ph.D., P.E.

### Assistant Dean for Administration

Scherrill G. Russman, M.B.A.

## Admission Requirements

"Admission" refers to an applicant receiving a formal admission status by processing the appropriate admission application and academic credentials.

Admission to the Division of General Engineering Studies will be based upon admission requirements in effect when the applicant is admitted to that division.

Admission to the Division of Basic Studies will be based upon admission requirements in effect when the applicant is admitted to the Division of General Engineering Studies.

Admission to the Division of Higher Studies (graduate/professional) will be based upon admission requirements in effect when the applicant is admitted to the Division of Basic Studies.

Admission of outside applicants to the Division of Higher Studies will be based upon admission requirements in effect when the applicant is admitted.

If an applicant has been admitted several times, the admission requirements in effect at the most recent time of admission will apply.

### New Students

Students interested in applying to the J. B. Speed School of Engineering should successfully complete the following courses in high school:

Algebra	_____2 years
Plane geometry	_____1 year
Advanced mathematics	_____1 year
(trigonometry, analytical geometry, calculus, or equivalent)	
Physics	_____1 year
Chemistry	_____1 year

Additional course work that is helpful includes basic instruction in computer programming and mechanical drawing.

The prospective student must make a formal application for admission to the J. B. Speed School of Engineering. The proper form is available from either the Office of Academic Affairs of the J. B. Speed School of Engineering, the University of Louisville Admissions Office, or online at <http://admissions.louisville.edu>.

A student is eligible for admission to the academic programs of the J. B. Speed School of Engineering upon the basis of courses taken in high school, the student's grade-point average, and scores achieved on either the ACT or SAT.

### Division of General Engineering Studies

Academically qualified new freshmen and most transfer students are admitted into the Division of General Engineering Studies. For unconditional admission, students should have:

- Graduated from an accredited high school with at least 20 units or credits meeting the Kentucky Pre-College Curriculum requirements.
- A cumulative high school grade-point average of at least 3.00 on a 4.00 scale ("B" average).
- An ACT composite score of at least 23 (or SAT of 550 on the Mathematics section and a 450 on the Verbal section).

In some instances, students of demonstrated ability may be admitted on a conditional basis, even though there is some deficiency in academic qualifications.

### Division of Pre-Engineering Studies

The Division of Pre-Engineering Studies is an admission division administered by the J. B. Speed School of Engineering for applicants who do not meet the requirements for entrance into the Division of General Engineering Studies. All Pre-Engineering Studies admitted students are required to complete 30 semester hours of specified courses with a minimum cumulative grade-point average of 2.25 in order to be eligible for admission into the Division of General Engineering Studies. Sixteen of the required thirty semester hours are applicable to baccalaureate degree requirements in all engineering degree programs.

All students enrolled in the Division of Pre-Engineering Studies are subject to the Academic Policies of the J. B. Speed School of Engineering.

## Admission to the Professional School of Engineering

### Division of Basic Studies

Prospective candidates for the Bachelor of Science degree must file an application for admission to the Professional School of Engineering, indicating their choice as to the engineering field of specialization. Subject to the approval of the department chair, a student will then be admitted to the Professional School, Division of Basic Studies, to pursue a combined program of studies and cooperative education experience in the approved engineering field of specialization.

Requirements for unconditional admission to the Professional School are:

- Completion of required courses in the Division of General Engineering Studies at the University of Louisville. A list of minimum course requirements for each engineering program is available in the Academic Affairs Office and will be provided by the student's academic advisor during the advising process.
- A minimum cumulative grade-point average of 2.0 in the Civil and Industrial Engineering programs, a minimum cumulative grade-point average of 2.5 in the Chemical, Electrical, and Mechanical Engineering programs, and a minimum cumulative grade-point average of 2.75 in the Computer Engineering and Computer Science program. A student lacking one or more of the course or grade requirements may petition the respective department for admission. The petition will be considered in accordance with faculty approved guidelines, and a decision will be made by either the Department Chair or his designated representative.
- An applicant for admission to an engineering program in the Division of Basic Studies must have the approval of the respective department chair.

To assist the student in making an orderly transition into the Professional School, Division of Basic Studies, a formal application for admission to this division should be made early in the semester in which the student will complete course work in the Division of General Engineering Studies. A student in the Division of General Engineering Studies should meet with an academic counselor in the Academic Affairs Office if there are questions concerning academic progress.

A student on academic probation may apply for admission to the Professional School. However, those students are advised that no final approval will be granted on their petition until after the close of the semester in which they ordinarily have completed the program of studies in the Division of General Engineering Studies. Students will not be admitted to the Professional School if they have not attained the required minimum grade-point average. In such cases, the department chair may suggest a remedial program to help students improve their academic standing.

After admission to the Division of Basic Studies, the student confers with the chair of the department, who assigns a departmental advisor for the academic program of study. In consultation with this advisor, the student is responsible for developing a program of study combining the academic course work and the cooperative education program, which he or she intends to undertake in the Division of Basic Studies of the Professional School. The student pursues the combined program of academic course work and cooperative education experience as approved by the advisor and the department chair.

### Mailing Address

J.B. Speed School of Engineering  
Belknap Campus  
University of Louisville  
Louisville, KY 40292

E-Mail Address  
[speed@louisville.edu](mailto:speed@louisville.edu)

### Telephone Numbers

**Office of the Dean**  
(502) 852-6281  
FAX (502) 852-7033

**Academic Affairs Office**  
(502) 852-6100  
FAX (502) 852-0392

For further information regarding admission, scholarship and program descriptions, please visit our web site at: <http://www.louisville.edu/speed>



Division of Higher Studies  
Subsequent to completion of the program of studies for the baccalaureate degree in the Professional School of Engineering, Division of Basic Studies, students desiring to pursue the Master of Engineering degree must formally apply for admission to the Division of Higher Studies of the Professional School. Requirements for admission or readmission to the Division of Higher Studies are:

- Completion of a program of studies equivalent to that obtained through the Divisions of General Engineering Studies and Basic Studies for the field of specialization in which the student desires to receive the Master of Engineering degree;
- Recommendation by the faculty and chair of the student's department for admission or readmission to the Division of Higher Studies;
- Cumulative baccalaureate grade-point average of 2.50 for all prior academic course work completed in the program. However, those students with cumulative baccalaureate grade-point averages from 2.25 to 2.50 may be admitted on a provisional basis by submitting a formal petition to the faculty of their major department, and upon approval of the chair and faculty of that department. The minimum cumulative baccalaureate grade-point average required for admission to the Division of Higher Studies in the Electrical Engineering degree program is 2.50, with no provision for a formal petition for admission on a provisional basis.

Students admitted to the Division of Higher Studies may then pursue a program leading to the Master of Engineering (M.Eng.) degree. While enrolled in the Division of Higher Studies, each student must maintain a 2.50 cumulative grade-point average for all academic course work attempted in the Division of Higher Studies.

A student becomes a candidate for the Master of Engineering degree upon admission and initial registration as a graduate/ professional student in the Division of Higher Studies.

A candidate for the Master of Engineering degree who does not register for credit hours must maintain active registration by paying a fee each semester for M.Eng. Residency until the degree is awarded, i.e. the candidate must maintain continuous registration in the Division of Higher Studies. Failure to pay the M.Eng. Residency fee will be cause to cancel a student's candidacy. In order to restore it, the student must receive the approval of the department chair and the Dean for Academic Affairs and must pay the fee for each of the semesters during which the candidacy was void.

## Advising Requirements

All students in the Division of General Engineering Studies must have signed approval of a J. B. Speed School of Engineering academic advisor before registering for classes each semester. Students are expected to know the requirements for graduation through the information available in this Catalog and through published addenda to this Catalog.

The Academic Affairs Office of the J. B. Speed School of Engineering is the academic resource center for students in the Division of General Engineering Studies. The advising staff is a team of professional academic counselors who provide assistance in planning programs of study, coordinate registration of courses, and provide guidance and referral services.

Academic advising:

- Assists students in selecting appropriate required and elective courses.
- Helps students determine choice of major.
- Assists students who are experiencing academic difficulties in their courses.

Students who have been admitted to the Professional School are expected to obtain advising from the academic advisors in the Department. This opportunity to discuss the program is a very important part of the total college experience. Students should contact their Department to determine the appropriate advisor and the advisor's office hours.

All students in the Division of Pre-Engineering Studies must have signed approval of their academic advisor before registering for classes each semester.

For further information about academic advising in the J. B. Speed School of Engineering, call 852-6100 or write to the Academic Affairs Office, J. B. Speed School of Engineering, University of Louisville, Louisville, KY 40292.

## Academic Policies

**Awarding of Transfer Credit**  
**Transfer Grade Acceptance**  
The University of Louisville recognizes appropriate course work completed at other accredited universities and colleges and accepts that work according to the principles set forth in the American Association of Collegiate Registrars and Admissions Officers Transfer Credit Practices and state law. Transfer work that is college-level, academic in nature and earned at appropriately accredited institutions will be accepted and posted as credit earned (i.e., with no grade). The J. B. Speed School of Engineering requires a minimum "C" grade for any transferred course to be accepted as credit toward a degree. Applicability of transfer credit toward degree requirements will be determined by the department chair. In some instances, examinations covering the course being transferred may be required.

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

**Community College Transfer Limits Policy**  
For baccalaureate degrees, students must present at least sixty (60) semester credit hours earned at four-year institutions. Students must also meet residency requirements.

**Awarding Credit for Non-Traditional Work**

**Awarding of Credit Through Placement Exams**  
Entering first-year and transfer students who submit scores for the Advanced Placement section of the College Entrance Examination Board may, upon recommendation of the Dean for Academic Affairs, receive advanced standing credit in appropriate courses. Academic credit is granted on the basis of certain College Level Examination Program (CLEP) performance. For information on potential credits see the Placement Examinations section under College of Arts and Sciences.

## Correspondence Courses

For any student enrolled in the J. B. Speed School of Engineering, a maximum of three (3) courses (10 credit hours maximum) may be taken by correspondence from an accredited institution. These courses may be only from the areas of Arts, Humanities, Social and Cultural Studies, and must fulfill all requirements stipulated for such courses. Currently enrolled students must have the permission of their department chair in order to enroll in a specific correspondence course during a particular semester. This policy applies also to students transferring into the J. B. Speed School of Engineering.

## Course Enrollment Policies

### Drop/Add

Any student wishing to alter the approved schedule of courses in any way must do so officially.

Students must use either a Drop/Add form, available in the Academic Affairs Office, the touch-tone telephone registration system, or the online system at <http://ulink.louisville.edu>. Failure to complete this official change or withdrawal process will result in a grade of "F" in each course in which the student is officially enrolled and not attending.

Students may add courses to their schedules only within the first week of the semester. They may withdraw without academic penalty with a grade of "W" at any time during the first half of the semester. No student may withdraw during the last half of the semester. The Dean for Academic Affairs may grant a student's request to withdraw or drop subjects because of sickness or conditions beyond the student's control. The grade in that case may be "W".

### Pass-Fail Option

An engineering student who has been admitted to the Professional School may take one course each semester on a pass-fail basis to the limit of three courses or nine semester hours in total (not including credit obtained for cooperative assignments). However, students on academic probation or Professional School probation are not eligible to take courses on a pass-fail basis during the term of their probation. An eligible student may select any course on a pass-fail basis, with two exceptions: courses specified by number and/or title in the student's curriculum and major-program electives may not be taken on a pass-fail basis. A passing grade will have no bearing on the student's term average or cumulative average, a failing grade will be averaged in both the term and cumulative average on the same basis as any other grade of "F".

A student may not change his or her registration, either from credit to pass-fail, or from pass-fail to credit after the first half of the semester (fifth week of the summer term). Credit earned for a co-op assignment is on a pass-fail basis. All students are permitted to register for physical education courses on a pass-fail basis.

#### Course Loads

Registration for 12 or more credit hours during a semester entitles a student to full-time status.

A student should ordinarily plan to take 16 semester hours of credit during the fall and spring semesters, and 11 semester hours of credit during the summer term. These plans do not include courses which may be required of students concurrently enrolled in the University's ROTC programs.

Students may take a maximum of 18 credit hours each fall and spring semester. In special circumstances, students may register for 19 credit hours with written permission from the Dean for Academic Affairs. Registration in the J. B. Speed School of Engineering summer term cannot exceed 13 credit hours.

Students on either Limited Load, Academic Warning, or Academic Probation status are limited to no more than 13 credit hours during fall and spring semesters and 7 credit hours during the J. B. Speed School of Engineering summer term. No student on Professional School Probation will be permitted to carry the maximum allowable course load while employed for more than ten hours per week.

Many students are employed while enrolled for instruction; however, the heavy schedule of class-work has necessitated limiting the number of hours in which they may be employed in outside work. No student, therefore, will be permitted to pursue a full class schedule while engaged for more than twenty hours a week in gainful employment. The load permitted will be that recommended by the student's faculty advisor and approved by the dean. The student must recognize that employment in outside work may increase the number of semesters required to complete the degree requirements.

#### Incompletes

In reporting the grade "I", instructors shall state the nature of the work that is lacking. The deficiency must be made up within the school's next academic term. Failure to complete the work within this period will result in a grade of "F" being recorded against the student. When the incomplete is removed, the instructor will submit a change of grade from "I" to the letter grade earned.

When the grade of "F" is given in any required course, the student shall repeat the course or take an approved equivalent at the first opportunity.

#### Class Attendance

The programs of the J. B. Speed School of Engineering are uniformly rigorous and demanding. Class attendance is expected and, if so indicated in the course syllabus, may be used to partially determine the course grade. Moreover, class participation may be a factor in grading as will taking examinations, completing homework assignments and fulfilling other course requirements.

#### Repetition of Courses

Undergraduate students may repeat to replace a maximum of four (4) courses with grades of F, D, or C. Graduate/Professional students in the Division of Higher Studies may repeat to replace one course with a grade of F, D, or C. For these repeated courses, only the last grade attained will be used in the grade-point average calculation.

Courses in which a grade of D or C was originally attained may be repeated only once under the repeat-to-replace option. Students are not required to repeat an F grade unless the course is specifically required for graduation. Students should be aware that all grades are displayed on the official transcript even after the repeat. All Schools and Colleges within the University will honor any previously granted repeats from other Schools and Colleges within the University.

A repeat form must be filed to activate this option. For courses retaken for which this option is not requested, both grades will be used in the grade-point average calculation, but students cannot receive double credit in hours required for the degree.

Permission will not be granted for a student to repeat lower level courses after a higher level course in the sequence has been passed.

#### Audited Courses

Audit status is offered on a space available basis. For that reason, students may not register for a class in an audit status during early registration, nor may a student change from a grade status to an audit status during that period. Students may register for classes in audit status during regular registration (after early registration financial cancellations) and then only with written approval of the instructor of the course. Students are allowed to change from audit to graded status or from graded status to audit status at any time from the beginning of regular registration through the last day to add a class, as they have approval from the course instructor. Students are advised that such approval is the instructor's prerogative and that audit status may have implications for financial aid eligibility. Any change of status must be submitted on the form provided in the Schedule of Courses. Forms must be submitted to the Registrar's Office by the required date

#### Policy on 500-level Courses

Students enrolled in 500-level courses having combined instruction of undergraduate and graduate students must demonstrate a level of mastery of the course material for graduate credit.

#### Policy on Independent Study Courses

Enrollment in an independent study course provides the opportunity for the student, under the supervision of a sponsoring faculty member, to pursue individualized study related to research and/or the practice of engineering that is not included in courses in the curriculum. The student must present an approved written plan that includes the purpose, rationale, activities planned, and expected results. A title for this individualized study course will be assigned by the supervising faculty member and will appear on the student's academic record. An independent study course is not permitted to duplicate an existing lecture course. Independent study enrollments will not be included in the assigned instructional workload of faculty, because of difficulties encountered in evaluating percentage instructional effort and performance in this category.

#### Final Examination Policy

The final examination is defined as the last examination in a course administered during the appropriate period in the published Final Exam Schedule. The approved policy on final examinations is available to students in the Academic Affairs Office.

## Academic Standards

Enrollment units may establish grade-point average standards that exceed the minimum grade-point average requirements of the University. Students are strongly encouraged to familiarize themselves with standards of their unit. Should an undergraduate student fail to meet the requirements of the enrollment unit, he/she may be subject to enrollment restrictions, course repetition requirements, other corrective interventions, and ultimately, dismissal from the enrollment unit. A student who is dismissed from the enrollment unit may seek immediate transfer to an enrollment unit for which his/her cumulative grade-point average is acceptable.

#### Dean's List and Dean's Scholars

Students in the undergraduate divisions are eligible for these academic honors.

An undergraduate student who completes twelve or more (nine or more in summer terms) graded credits with all grades of "A", and no grades of "I", "X", or "U", is named a Dean's Scholar.

An undergraduate student who completes twelve or more (nine or more in summer terms) graded credits with the grades of "A", "B", or "C" and a 3.5 grade-point average, with no grades of "I", "X", "U", "D", or "F", is named to the Dean's List. Grades of "P" are not prohibited in Dean's List qualifications, but cannot be used to meet the graded-credits minimum requirement.

#### Good Standing

Undergraduate students are in good standing and are making satisfactory progress when they have a cumulative grade point average (GPA) of at least 2.0.

#### Academic Warning

Undergraduate students who, after the first 12 degree-applicable semester hours at U of L, have a grade-point average below 2.0 will be placed on Academic Warning. They will be notified that their achievement is below expectations and strongly encouraged to seek assistance. Students on Academic Warning are limited to enrollment for 13 credit hours in a fall or spring semester and 7 credit hours for the Speed School summer term.

A student placed on Academic Warning will have the following semester to raise the cumulative grade-point average to at least 2.0. If that does not occur, the student will then be placed on Academic Probation.

#### Academic Probation

In any semester subsequent to that described in Academic Warning above, an undergraduate student who has less than a 2.0 grade-point average will be placed on Academic Probation for the next semester in which the student enrolls. Undergraduate students on Academic Probation are notified that their achievement is below expectations and are subject to course and/or credit hour limitations, specified course registration requirements, or other intrusive advising interventions as deemed appropriate by their enrollment unit. During a semester on Academic Probation, no student may enroll in more than 13 semester hours (7 semester hours during the Speed School summer term). A student on Academic Probation must not pursue the maximum allowable course load while employed for more than ten hours per week.

Undergraduate students on Academic Probation will have their records evaluated at the end of the probationary semester with one of the following outcomes:

- Student whose cumulative and semester grade-point averages are both at or above 2.0 will be restored to good standing in the Speed School.

- Student whose cumulative grade-point average is still below 2.0 but who earned a semester grade-point average of at least 2.5 will be maintained on probation.
- Student whose cumulative grade-point average is still below 2.0, and who earned a semester grade-point average at or above 2.0 but below 2.5, may petition for continuation on probation. The petition describing the student's plan of action to return to good standing must be submitted to the school's Standards and Admissions Committee.
- Student whose cumulative and semester grade-point averages are both below 2.0 will be placed on Academic Suspension and will be required to sit out at least one semester.

Academic probation will be considered a serious warning that the student is making unsatisfactory progress toward completion of the academic requirements for a particular degree program.

Students on academic probation are ineligible to hold office in any campus organization or to represent the school or the University in any official capacity, except by special approval of the Dean for Academic Affairs. Students who are on academic probation are not eligible for co-op assignments.

Students have the responsibility to know their current status. The School routinely notifies students when their status changes, but such notification may not be possible before the beginning of the next semester.

**Professional School Probation**  
Although a student may be admitted to the Professional School, Division of Basic Studies, and continue to maintain minimal academic standards, it is possible for individual performance levels to fall beneath the projected progress necessary for future admission to the Division of Higher Studies (M.Eng. degree).

A student enrolled in the Division of Basic Studies who at the end of any semester or term has a cumulative grade-point average below 2.25 will be placed on Professional School probation. Individual departments may establish a higher cumulative grade-point average requirement.

During a semester of Professional School probation, no student may enroll in more than 13 semester hours (7 semester hours during the J. B. Speed School of Engineering summer term). No student on Professional School probation will be permitted to pursue the maximum allowable course load while employed for more than ten hours per week. A student will be continued on Professional School probation until the cumulative grade-point average is raised to 2.25. Individual departments may establish higher criteria for Professional School probation.

#### Academic Suspension

Students suspended for unsatisfactory academic performance will not be permitted to enroll for academic course work for at least one semester. During this period, individuals should seriously reexamine their previous accomplishments in terms of their chosen career objectives. After one semester, a student who believes that a reasonable opportunity for future successful performance exists may petition the Dean for Academic Affairs and the school's Standards and Admissions Committee for readmittance to the J. B. Speed School of Engineering.

Readmission of suspended students is not guaranteed. The petitioner must submit an Application for Undergraduate Admission form to the Office of Admissions in addition to the written petition.

The petition for readmission of a student suspended for unsatisfactory academic performance must be received by the enrollment unit at least one month prior to the first day of classes for the semester in which its student seeks readmission. The petition should address the student's perception of the causes of poor performance; the steps the student has taken to address those causes; and a plan of action to return to good standing. Students who are granted reinstatement will be readmitted on Academic Probation.

#### Academic Dismissal

No student will be reinstated more than twice; the third suspension is an Academic Dismissal. A student academically dismissed can only return through special permission from the enrollment unit.

Students who are suspended or dismissed from the Speed School of Engineering are eligible to apply for admission to another U of L unit and may be admitted if they meet minimum admission standards of that unit. Students who apply for admission to another unit may not enroll in any courses in the unit from which they were dismissed.

#### Academic Bankruptcy

Students who have been out of higher education for at least two years and then return to achieve a 2.5 grade-point average or higher in the first 12 degree-applicable credit hours are eligible to apply for Academic Bankruptcy. All degree-applicable courses taken during the term in which the 12 hour minimum is attained will be considered in determining eligibility for bankruptcy. Under this policy, students (if accepted) could remove one or more consecutive semesters of college work from their grade-point average and semester hours completed calculation.

Students are advised that while bankrupted course grades are removed from the calculation, the course work does remain a part of their permanent record and that the bankrupted work may be considered for financial aid purposes, NCAA purposes, and may be evaluated if applying for honors or graduate/professional study. Additionally, students must be aware that Academic Bankruptcy is an internal policy and the University of Louisville cannot guarantee how the work will be viewed by another university should the student choose to transfer. Students wishing to examine this option are advised to see an academic advisor for details of the process. Bankrupt semesters will not apply toward enrollment semesters when determining catalog year. Bankruptcy may be declared only once.

#### Academic Dishonesty

A primary goal of the Speed School of Engineering is to educate men and women who will serve the engineering community with competence and integrity. Academic dishonesty is a serious offense at J. B. Speed School of Engineering because it undermines the bonds of trust and honesty between members of the community and defrauds those who may eventually depend upon our knowledge and integrity.

Students are expected to recognize and to uphold standards of intellectual integrity. The J. B. Speed School of Engineering assumes, as a minimum standard of conduct in academic matters, that the student is honest; credit for courses is given and received on the assumption and condition that all work submitted represents the student's own efforts.

Academic dishonesty is defined in the Code of Student Rights and Responsibilities. It is the student's responsibility to become familiar with the Code. Copies of the Code are available in the Speed School Academic Affairs Office and departmental offices. The Code is also found elsewhere in this Catalog.

Allegations of academic dishonesty are handled in accordance with the Procedures for Dealing with Breaches of Academic Integrity. Copies of the Speed School policy and procedures are available to both faculty and students in the above-mentioned offices.

#### Grievance Procedure

Student complaints regarding both academic and non-academic matters are resolved through the Speed School grievance procedure. Copies of this procedure are available in the Speed School Academic Affairs Office.

## Graduation and Degree Requirements

### Catalog Year Policy

Undergraduate engineering degree (B.S.) requirements will be based upon the course requirements that are in effect at the time of undergraduate admission to an engineering curriculum.

Graduate/Professional engineering degree (M.Eng.) requirements will be based upon the course requirements that are in effect at the term of admission to graduate/professional status in an engineering curriculum.

Students may elect to follow the most recent degree program requirements established subsequent to their initial entry into the J. B. Speed School of Engineering. The University reserves the right to issue and require immediate compliance with new curricular requirements as may be needed to respond to accreditation issues.

If a student has a break in enrollment of two or more calendar years, the student must apply for readmission and, if admitted, will be subject to catalog requirements in effect at the time of readmission.

### Requirements for the Bachelor of Science Degree

#### Minimum Hours

The minimum semester-hour requirements for the Bachelor of Science degree are 133-137 semester hours completed in the Divisions of General Engineering Studies and Basic Studies. This total includes two semester hours of credit for each of the three required periods of cooperative education experience completed successfully. The required courses, total semester-hour credit requirements, and recommended electives of each of the areas of specialization available in the Professional School are listed in the Degree Program section of this Catalog.

Highly-motivated students may be able to complete the Bachelor of Science degree by the end of the spring semester of the fourth year.

#### Grade Point Average

Candidates for the Bachelor of Science degree must have a minimum final cumulative grade-point average of 2.0.

#### Residence Requirements

Students must complete at least 30 of the last 36 semester hours in residence at the University of Louisville.

### Other Stipulations

Electives must be chosen so that the criteria are satisfied for the number of semester hours of engineering topics established by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET). Guidelines are on file in each department office.

### Degree Applicants

Each applicant for the Bachelor of Science degree must present to the Academic Affairs Office a degree application form at the beginning of the semester or term in which the student expects to graduate and a completed clearance form at the end of that semester. A \$20 application fee will be charged by the registrar. An applicant who fails to qualify for the degree will be issued a partial credit.

Requirements for the Master of Engineering Degree

### Minimum Hours

The minimum semester-hour requirements for the Master of Engineering degree are 30-32 semester hours completed in the Division of Higher Studies. This total includes 6-8 semester hours of credit for a comprehensive individual study, design, or investigation, under the direction of a J. B. Speed School of Engineering faculty member, resulting in a written thesis. The thesis must be defended orally and submitted in written form to the faculty for approval. The faculty in all departments have approved an alternative curriculum that permits students to graduate without preparing a thesis. Detailed information on program requirements, total semester hours, and alternative curricula are available in the Degree Program section of this Catalog.

### Grade Point Average

Graduates must have a minimum final cumulative grade-point average of 2.50 for all academic course work attempted in the Division of Higher Studies.

### Other Stipulations

Electives must be chosen so that the criteria established by EAC/ABET are satisfied. Guidelines for elective options are on file in each department office. The requirements of the Kentucky Council on Postsecondary Education specify that a minimum of 12 semester hours (excluding thesis credit) must be completed in courses at the 600-level or above for the Master of Engineering degree. All programs leading to the Master of Engineering degree, except the program in Engineering Management, are accredited by EAC/ABET.

The total requirements for the Master of Engineering degree must be completed within six years after admission into the Division of Higher Studies. The time limit imposed by the rule may be extended in individual cases upon recommendation of the department chair and approval of the dean.

Earned graduate credit may be transferred from institutions that offer advanced degrees. Upon request, the maximum number of semester hours transferable is six in the Division of Higher Studies.

### Degree Applicants

Each applicant for the Master of Engineering degree must present to the Academic Affairs Office a degree application form at the beginning of the semester or term in which the student expects to graduate, a graduating student survey, and a completed clearance form at the end of that semester. Each Master of Engineering degree applicant with thesis is charged a fee of \$40.00; the fee without thesis is \$20.00. In addition, part of the cost of binding the thesis copies must be paid directly to the Kersey Library when the copies are deposited. An applicant who fails to qualify for the degree will be issued a partial credit for the degree application fee. The candidate must then reapply for the degree to be granted at a later date.

### Graduation With Honors

Students who have completed one-half of the credit hours required in their undergraduate degree program while enrolled in the J. B. Speed School of Engineering will be eligible to graduate with Honors.

A student with a grade-point average of 3.25 to 3.5 will be graduated with Honors. A student with a grade-point average of 3.5 to 3.75 will be graduated with High Honors. A student with a grade-point average of 3.75 to 4.0 will be graduated with Highest Honors.

Eligibility for Master of Engineering degree graduate honors is based upon the grade-point average in the five-year degree program.

## Special Programs

### MBA Program

A simultaneous Master of Business Administration (MBA) program, offered in conjunction with the College of Business and Public Administration, provides students an option to begin studies in the MBA program while enrolled in the Master of Engineering (M.Eng.) program. Some advantages of this program are early MBA admission, streamlined MBA prerequisites, and 12 of the 36 MBA semester credit hours satisfied by M.Eng. courses. The MBA is nationally-accredited by the AACSB. Information on the simultaneous MBA program can be obtained in the office of the department offering the M.Eng. degree program.

## Academic Affairs Office

Room 213, J. B. Speed Bldg.  
(502) 852-6100

### Faculty

#### Associate Dean for Academic Affairs

Michael L. Day, Ph.D., P.E.  
Purdue University  
Professor

#### Director of Career Development

Faye Sutton, M.A.  
Eastern Kentucky University  
Professor

#### Director of Student Affairs

Brenda G. Hart, M.Ed.  
University of Louisville  
Professor

### Professional Staff

#### Director of Academic Programs

Michael R. Harris, Ed.D.  
University of Louisville

#### Director of Advising and Student Services

Susan M. Best, M.A.  
University of Louisville

#### Director of Admissions

Marita A. Frank, B.A.  
University of Louisville

#### Director of Support Services

Paula M. Murphy

The Academic Affairs Office provides services for all Speed School students, faculty, alumni, and industry. The faculty and professional staff are responsible for recruiting and admitting prospective students, academic advising for students until they are formally admitted to a department, career development, providing student services, enhancing the quality of student life, supporting the school's academic programs, and delivering services which support the academic mission of J. B. Speed School of Engineering.

## Engineering Cooperative Education

### The Opportunity

The principal purpose of the Speed Scientific School is to give the student a thorough, well-balanced training in engineering and applied science as preparation for entry into the profession of engineering.

For those students who choose to pursue studies that will prepare them for entry into the profession of engineering, **Figure 1** shows the typical method of scheduling a student's academic studies and alternating these studies with a required and meaningful cooperative work experience. By pursuing this integrated program of both on-campus learning experiences and meaningful co-op assignments, a student has the opportunity to observe and participate in the real practice of engineering. The Office of Career Development assists each student in obtaining a suitable cooperative work assignment with an industrial corporation or governmental agency, not only in the Greater Louisville metropolitan area but throughout the Commonwealth of Kentucky and in many other regions of the country. During each co-op, students receive a salary from the cooperating industry or agency, which can be used to defray costs of their engineering education.

### Engineering Cooperative Education

In order to qualify for the Master of Engineering degree, students must successfully complete three co-ops within an area directly related to their degree specialization.

### Objectives of Cooperative Education

1. To provide students with experience in the job search process.
2. To provide professional work experience so that students may fully comprehend the relationship between theory and practice in engineering.
3. To provide an opportunity for students to assess engineering as a career choice relative to their individual skills and interests.
4. To encourage development of communication, team, and management skills.

**Figure 1.** Academic study and cooperative education schedule for students enrolled in engineering programs.

	1st Yr.	2nd Yr.	3rd Yr.	4th Yr.	5th Yr.
<b>Fall</b>	Academic studies	Academic studies	Co-op	Academic studies	Academic studies
<b>Spring</b>	Academic studies	Co-op	Academic studies	Academic studies	Academic studies
<b>Summer</b>	Academic studies	Academic studies	Co-op	Academic studies	Academic studies

- To enable students to develop a knowledge and understanding of business applications.
- To assist students in developing an understanding of professional and ethical responsibilities.

#### Eligibility for Co-op

Co-op eligibility is dependent upon the student's admission to an academic department and upon good standing within Speed School. In addition, transfer students must have completed at least one semester of full-time coursework in Speed School before enrolling in the co-op seminar.

Required Cooperative Education Seminar (non-credit) Students must be enrolled in Departmental Course 288 the semester preceding their first cooperative work assignment. The course description is available in this Catalog.

#### Student Responsibilities

- In accordance with Accreditation Board for Engineering and Technology (ABET) requirements, undergraduate students will alternate co-ops with semesters of full-time class work.
- Students are required to register for the co-op prior to the beginning of each work term.
- Students are expected to work the dates of co-op designated in the Schedule of Courses.
- In order to achieve the Objectives of Cooperative Education, all co-op work terms will be conducted with the same employer unless approved in advance by the cooperative education director.
- Students are employees of the company or organization while they are on co-op and are subject to employer rules and regulations. Students are expected to maintain the highest performance and behavioral standards while on co-op.
- If a student is terminated from cooperative employment or otherwise disciplined for any reason, it must be immediately reported by the student to the co-op director. A student who is terminated for any reason other than the employer's business conditions may be subject to academic sanctions as well as disciplinary action in accordance with the Code of Student Conduct.
- The University is not liable for any accident or injury involving a co-op student. However, it is the responsibility of the student to see that any serious accident or injury is reported, at the earliest opportunity, to the co-op director.
- Students are required to sign and abide by the policies and procedures set forth in the Cooperative Education Student Agreement provided in the co-op seminar.

#### Salary

In general, students are classified as temporary full-time employees and are paid on an hourly basis while on co-op. Salaries may vary according to employer and location.

#### Length of Employment

Upon request, a student may receive the Master of Engineering degree, all candidates must have completed three alternating cooperative semesters, totaling at least one calendar year's duration (fifty weeks). Deviation from this requires advance written approval of the co-op director and department chair.

#### Course Enrollment During Co-op

Upon request, a student may enroll for academic coursework not exceeding four semester hours during any co-op period. Approval will be given only for academic work which does not interfere with the co-op, and permission must be obtained prior to the beginning of the co-op period. Request forms are available from the coop coordinators and on the co-op website.

#### Evaluation and Academic Credit

Co-op students are graded on a pass-fail basis and earn two semester hours of credit for each completed co-op, for a total of six semester hours.

At the conclusion of a co-op semester, each student is evaluated by the appropriate employer representative. This evaluation will assist in the development and counseling of the student and will become a permanent part of the student's file.

Each student is required to submit a written report along with the employer evaluation at the end of each co-op period. The report will be read and graded by faculty in the student's major department and the co-op director.

#### Advanced Credit

Advanced credit for co-op may be awarded upon approval of the department chair, the director of cooperative education and the Dean for Academic Affairs. Students who performed full-time work of a technical nature before entering Speed School and students who have had military experience are eligible. A letter is required from the employer verifying the dates and the nature of the employment. In the case of military experience, veterans may submit a copy of their separation form in lieu of the employer's letter. Students who participate in ROTC or military summer camp may receive credit for one co-op (2 hours).

Forms for advanced credit are available from the coop director and coordinators.

Part-time work or work performed subsequent to entering Speed School will not qualify for advanced credit. If the work, however, was comparable to a co-op assignment and was performed during a semester in which the student was enrolled for no more than four semester hours, then the student may be eligible, upon approval of the co-op director, for back-registration. The student must pay tuition for the two hours of credit and will be expected to fulfill normal course requirements for co-op, including submission of a co-op report and employer evaluation.

#### Employment Opportunities

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

#### Waiver Policy

- Although three semesters of co-op are required for the Master of Engineering degree, a student exiting with the Bachelor of Science degree may substitute three semester hours of coursework for the third and final co-op. The three semester hours must be in addition to courses required for the baccalaureate degree and must be approved by the department chair.
- When a co-op director experiences extreme difficulty in placing a student on one or more co-ops, that student may seek an administrative waiver from the department chair and the co-op director. Waiver recipients are required to complete a minimum of two semester hours of additional courses for each cooperative period waived. These additional courses will be specified by the department chair.

#### International Students Exemption

A student who is not a U. S. citizen and holds a student visa is exempt from the mandatory cooperative requirement. The six semester hours of co-op will be replaced by six semester hours of courses approved by the department.

Graduate Career Employment Graduating students and alumni may register with the university's Career Development Center for job search assistance. On-campus interviews, individual counseling, and group information sessions are conducted throughout the year.

## Engineering Graphics

#### Faculty

##### Professors

Robert A. Matthews, M.Ed.  
University of Louisville

James A. Leach, M.Ed.  
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## EMCORE Faculty Group

#### Faculty

Melvin J. Maron (CECS) Coordinator

Patricia A. Ralston (ChE)

Larry D. Tyler (ME)

##### Assistant Professor

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## Department of Chemical Engineering

#### Faculty

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Professor  
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##### Professors

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James C. Watters, Ph.D., P.E.  
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##### Associate Professors

Kyung A. Kang, Ph.D.  
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Case Western Reserve University

##### Associates

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Professor of Chemistry

Lawrence Gittleman, D.M.D.  
Harvard School of Dental Medicine  
Professor of Prosthodontics and Biomaterials

Elias Klein, Ph.D.  
Tulane University  
Professor of Medicine, Division of Nephrology

Richard A. Ward, Ph.D.  
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Duane F. Bruley, Ph.D.  
University of Tennessee

Garrett Cawthon, Ph.D., P.E.  
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Britton Chance, Ph.D.  
University of Pennsylvania, Ph.D.  
Cambridge University, Ph.D.  
Cambridge University, D.Sc.

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**Visiting Professor**

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**Term Assistant Professor**

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**Emeritus Faculty**

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Professor

Dean O. Harper, Ph.D., P.E.  
University of Cincinnati  
Professor

Earl R. Gerhard, Ph.D., P.E.  
University of Illinois  
Dean and Professor

Charles A. Plank, Ph.D.  
North Carolina State University  
Professor

Hugh T. Spencer, Sc.D.  
Johns Hopkins University  
Professor

Degree Programs  
Specific requirements relating to major  
programs in Chemical Engineering are  
listed elsewhere in this publication.

Department of Civil and  
Environmental  
Engineering

Faculty

**Acting Department Chair**

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Room 101, W. S. Speed Hall

**Professors**

Nageshwar R. Bhaskar, Ph.D., P.E.  
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Louis F. Cohn, Ph.D., P.E.  
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University of Iowa

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University of Illinois

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Arthur C. Parola, Jr., Ph.D.  
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University of Illinois

**Associate Professors**

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University of Kentucky

**Assistant Professors**

Paul R. Lederer, Ph.D., P.E.  
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Thomas D. Rockaway, Ph.D., P.E.  
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**Adjunct Associate Professors**

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Michael W. Sweeney, Ph.D. P.E.  
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Dean and Professor

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Professor

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Professor of Geography &  
Geosciences

Jafar Hadizadeh, Ph.D.  
Imperial College  
Associate Professor of Geography &  
Geosciences

Degree Programs  
Specific requirements relating to major  
programs in Civil Engineering are  
listed elsewhere in this publication.

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Computer Engineering  
and Computer Science

Faculty

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Associate Professor

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And Engineering  
Joint appointment in ECE Department

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Associate Professor

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Professor and former Chair

Gwong Sun, Ph.D.  
University of Louisville and University  
of Oklahoma  
Associate Professor

Degree Programs  
Specific requirements relating to major  
programs in Computer Engineering  
and Computer Science are listed  
elsewhere in this publication.

Department of Electrical  
and Computer  
Engineering

Faculty

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University of Kentucky  
Professor

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Professor

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Purdue University  
Professor

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University of Louisville, M.D.  
Professor

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Professor

Degree Programs  
Specific requirements relating to major  
programs in electrical engineering are  
listed elsewhere in this publication.

Department of Industrial  
Engineering

Faculty

**Department Chair**

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C.Q.E.

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University  
Professor

J. B. Speed 304

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Carol O'Connor Holloman, Ph.D.  
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Georgia Institute of Technology

**Associates**

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Associate Professor of Management

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Associate Professor of Marketing  
Challenge for Excellence Chair in  
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Professor

Degree Programs

Specific requirements relating to  
majors and minors programs in  
Industrial Engineering are listed  
elsewhere in this publication.

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Mechanical Engineering

Faculty

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Associate Professor

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Purdue University

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Ronald A. Mann, Ph.D.  
University of Cincinnati

Larry D. Tyler, Ph.D.  
University of Louisville

Julius P. Wong, Ph.D., P.E.  
Oklahoma State University

**Associate Professors**

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Speed School of Engineering  
Endowed Chair of Biomechanics  
University of Pittsburgh

Timothy E. Dowling, Ph.D.  
California Institute of Technology

Robert S. Keynton, Ph.D.  
Director of Bioengineering  
University of Akron

Peter M. Quesada, Ph.D.  
University of California at Berkeley

M. Keith Sharp, Sc.D., P.E.  
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**Assistant Professors**

Roger D. Bradshaw, Ph.D.  
Northwestern University

Andrea L. Knox-Kelecy, Ph.D. (term)  
University of Wisconsin-Madison

Christopher M. Richards, Ph.D.  
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Ali M. Shahhosseini, Ph.D. (term)  
Lamar University

**Associate**

Michael J. Voor, Ph.D.  
Tulane University  
Associate Professor of Orthopaedic  
Surgery

**Adjunct Assistant Professors**

Claudia Angeli, Ph.D.  
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Joris Leijnse  
Erasmus University Rotterdam

Surya S. Patel, M.D., Ph.D.  
University of Kentucky

**Instructor**

Lubov Andrusiv, M.S.  
University of Louisville

**Emeritus Faculty**

Hsing Chuang, Ph.D., P.E.  
Colorado State University  
Professor

Robert L. Collins, Ph.D., P.E.  
Virginia Polytechnic Institute  
Professor

George C. Lindauer, Ph.D.  
University of Pittsburgh  
Professor

Robert E. Stewart, Ph.D.  
University of Waterloo  
Professor

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## Accountancy

Bachelor of Science in Business Administration in Accountancy

**Major:** ACCY

**Degree:** BSB

**Unit:** College of Business and Public Administration (BU)

The mission of the School of Accountancy is to meet the needs of our metropolitan and regional constituents by providing flexible and varied learning experiences to enable our students to succeed in their careers; by producing scholarly works to disseminate knowledge to the business and academic communities and to enrich the learning experiences of our students; and by using our expertise to serve the community, the university, and the accounting profession. The University of Louisville Accountancy Program is accredited by the Association to Advance Collegiate Schools of Business (AACSB International).

+ See general education requirements in the General Information section of this Catalog.

	Semester Hours	Total
<b>University wide General Education</b>		
English 101 and 102.....	6	
Comm 111, 112, 115, PolS 111, or WMST 203.....	3	
Math (See Programmatic Req.).....	*(3)	
+ Natural Sciences.....	7	
+ Arts & Humanities.....	6	
+ Social & Behavioral Sciences.....	*(9)6	28(34)
* <b>Note:</b> Programmatic Requirements include six hours of the Gen. Ed. (3 hours Math and 3 hours Social & Behavioral Sciences)		
<b>Programmatic Requirements of the CBPA</b>		
Camp 100 Campus Culture.....	1	
Mathematics 107; 111 or 205 *(completes Math Gen Ed).....	6 <sup>1</sup>	
Logic, Phil 311 or 312.....	3	
Ethics, Phil 222, 225, 321 or 323.....	3	
English 306 Business Writing.....	3	
Accounting 201-202.....	6	
Economics 201-202 *(Completes 3 hours of Soc. & Beh. Sci.).....	6	
Management 201 (Statistics).....	3	
CIS 100 Microcomputer Applications.....	3	34
<b>Business Breadth</b>		
FIN 301 Corporate Finance.....	3	
MKT 301 Principles of Marketing.....	3	
MGMT 301 Management and Org. Behavior.....	3	
CLAW 301 Legal Environment of Business.....	3	
CIS 300 Computer Information Systems.....	3	
MGMT 401 Operations Management.....	3	18
<b>Accountancy Depth</b>		
ACCT 301 Intermediate Accounting I.....	3	
ACCT 302 Intermediate Accounting II.....	3	
ACCT 310 Introduction to Accounting Information Systems.....	3	
ACCT 315 Introduction to Taxation.....	3	
ACCT 320 Managerial Cost Accounting.....	3	
ACCT 411 Advanced Accounting Information Systems.....	3	
ACCT 430 Auditing Theory and Practice.....	3	
CIS Elective(s) (See School of Accountancy Office for approved list).....	3	
Accountancy Electives.....	6	
Business Electives (not Accounting).....	3	
Arts & Sciences Electives.....	12	45
<b>Minimum Total</b> .....		<b>125<sup>2</sup></b>
<b>Accountancy Electives: Choose any 6 hours</b>		
ACCT 353 Accounting for Not-for-Profit Organizations.....	3	
ACCT 401 Advanced Accounting Problems.....	3	
ACCT 415 Advanced Taxation.....	3	
ACCT 420 Advanced Managerial Cost.....	3	
Co-op in Accounting**.....	1-3	

1 If Math 205 is taken, there will be 7 total hours of math.

2 Six hours of cultural diversity courses are required and may be incorporated within the degree program.

• All prerequisites must be followed (see undergraduate catalog).

\*\*Co-op may be taken over more than one semester. No more than 3 credit hours may count towards the degree. Co-op hours may not be combined with other academic hours.

## Administration of Justice

Bachelor of Science in Administration of Justice

**Degree:** BS

**Major:** ADJ

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
General Education.....		34
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation.....	1	
Electives in Humanities or Natural Sciences at 300 level or above (in addition to courses counted toward General Education).....	6	7
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
<b>Department of Justice Administration</b>		
Justice Administration 200 <sup>1</sup> .....	3	
Justice Administration 201 <sup>1</sup> .....	3	
Justice Administration 202 <sup>1</sup> .....	3	
Justice Administration 305.....	3	
Justice Administration 306.....	3	
Justice Administration 325.....	3	
Justice Administration 326.....	3	
Justice Administration 360.....	3	
Justice Administration 395.....	3	
Justice Administration 485 <sup>2</sup> .....	3	
Justice Administration electives.....	24	54
(Justice Administration electives must be from approved departmental list at the 300 level or above. A minimum of 15 hours must be in Justice Administration, but may not exceed 24 hours)		
<b>Minimum Electives</b> .....		<b>26</b>
<b>Minimum Total</b> .....		<b>121</b>

Students must have a minimum of 50 hours at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

<sup>2</sup> Fulfills WR requirement.

## Administration of Justice

Minor in Administration of Justice

**Minor:** ADJ

**Department:** JA

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Justice Administration 200.....	3	
Justice Administration 201.....	3	
Justice Administration 202.....	3	
Justice Administration 305.....	3	
Justice Administration 306.....	3	
Justice Administration 360.....	3	
Justice Administration elective at the 300 level or above.....	3	
<b>Minimum Total</b> .....		<b>21</b>

## Administration of Justice

Certificate in Police Executive Leadership Development

**Major:** PEDC

**Degree:** CPE

**Unit:** College of Arts and Sciences (AS)

The curriculum of the Administrative Officers Course (AOC) of the Southern Police Institute is chosen from the following courses and may be taken only by students regularly enrolled in the Institute.

	Semester Hours	Total
Certificate in Police Executive Leadership Development		
Justice Administration 470 .....	3	
Justice Administration 471 .....	3	
Justice Administration 473 .....	3	
Justice Administration 477 .....	3	
Justice Administration 576 .....	3	
Justice Administration 606 .....	3	
Justice Administration 665 .....	3	

The curriculum is designed to prepare student-officers for administrative careers in law enforcement. The courses offered have been approved by the University of Louisville and evaluated by the Southern Association of Colleges and Schools. Students who are accepted for the Southern Police Institute course are enrolled as full-time students in the University of Louisville. Each student is enrolled in five different courses, and those who successfully complete the courses receive 15 hours of college credit. Students who have a baccalaureate degree are enrolled in the graduate option which includes three 3-hour graduate courses and 6-hours of undergraduate credit to receive the certificate. Students who qualify but are exempted from the graduate option and those who do not possess a baccalaureate degree receive 15 hours of undergraduate credit. Content of the individual courses as well as the overall content of the program is evaluated periodically and changes made if necessary to meet the needs of the law enforcement community.

**Minimum Total** .....15

## Aerospace Studies

Minor in Aerospace Studies

**Minor:** AIRS

**Unit:** College of Arts and Sciences (AS)

### TRACK I

For students with no prior military service

AIRS 101: Foundations of the U.S. Air Force I.....	1	
AIRS 102: Foundations of the U.S. Air Force II.....	1	
AIRS 201: Evolution of U.S. Air Power I.....	1	
AIRS 202: Evolution of U.S. Air Power II.....	1	
AIRS 311: Air Force Leadership Studies I.....	3	
AIRS 312: Air Force Leadership Studies II.....	3	
AIRS 411: National Security Affairs I.....	3	
AIRS 412: National Security Affairs II.....	3	
Six hours to be chosen from the following:.....	6	22
HIST 314: History of American Foreign Relations		
Any History course approved for the "Asia, Africa, Latin America" area of the major in History		
POLS 330: International Relations		
POLS 333: American Foreign Policy		
POLS 338: National and International Security		
POLS 339: Terrorism		
3-6 hours in languages		
(in addition to any language requirement of the student's major)		

### Track II

For students who enter the program after their sophomore year or students with prior military service who have received credit for AIRS 101, 102, 201 and 202 from the Department Chair. Students in this track who have not received credit for these courses will take them during an extended summer Field Training.

AIRS 311: Air Force Leadership Studies I.....	3	
AIRS 312: Air Force Leadership Studies II.....	3	
AIRS 411: National Security Affairs I.....	3	
AIRS 412: National Security Affairs II.....	3	
Nine hours to be chosen from the following:.....	9	21
HIST 314: History of American Foreign Relations		
Any History course approved for the "Asia, Africa, Latin America" area of the major in History		
POLS 330: International Relations		
POLS 333: American Foreign Policy		
POLS 338: National and International Security		
POLS 339: Terrorism		
3-9 hours in languages		
(in addition to any language requirement of the student's major)		

## Anthropology

Bachelor of Arts in Anthropology with concentration in Natural Sciences

**Major:** ANTH

**Concentration:** NSC

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
General Education .....		34
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
Arts & Sciences Programmatic Requirements		
General 101: A&S Orientation .....	1	
Foreign Language .....	12	
(completion of the intermediate level of a single foreign language)		
Electives in Humanities or Natural Sciences .....	9	22
(in addition to courses counted toward General Education; 6 hours must be at 300 level or above)		
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
Department of Anthropology		
Anthropology 201 <sup>1</sup> , 202 <sup>1</sup> , 204 <sup>1</sup> , 448 <sup>2</sup> .....	12	
Anthropology 371 <sup>2</sup> , 373 <sup>2</sup> , 376 <sup>2</sup> (select one) .....	3	
Anthropology 315, 318, 319, 320, 321, 323, 324, 325, 328 (select one) .....	3	
Anthropology 314, 316, 322, 326, 330, 353, 377 (select one) .....	3	
Anthropology 303, 306, 307, 308, 327, 350, 351, 410 (select two) ..	6	
Anthropology 309, 310, 331, 333 <sup>2</sup> -338, 339, 340, 346 <sup>2</sup> , 352, 385 (select one) .....	3	
Anthropology electives .....	6	36
Supporting Courses		
Electives in the Division of Natural Sciences, in addition to General Education, to bring total hours in Natural Sciences to 18, with no more than 12 hours in any one Department .....		
	11	
<b>Minimum Electives</b> .....		18
<b>Minimum Total</b> .....		121

Only 40 hours in the major department may be applied toward the Bachelor of Arts Degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirements.

<sup>2</sup> Fulfills WR requirement.

## Anthropology

Bachelor of Arts in Anthropology with concentration in Social Sciences

**Major:** ANTH

**Concentration:** SSC

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
Arts & Sciences Programmatic Requirements		
General 101: A&S Orientation .....	1	
Foreign Language .....	12	
(completion of the intermediate level of a single foreign language)		
Electives in Humanities or Natural Sciences .....	9	22
(in addition to courses counted toward General Education; 6 hours must be at the 300 level or above)		
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
Department of Anthropology		
Anthropology 201 <sup>1</sup> , 202 <sup>1</sup> , 204 <sup>1</sup> , 448 <sup>2</sup> .....	12	
Anthropology 371 <sup>2</sup> , 373 <sup>2</sup> , 376 <sup>2</sup> (select one) .....	3	
Anthropology 315, 318, 319, 320, 321 323, 324, 325, 328, (select one) .....	3	
Anthropology 314, 316, 322, 326, 330, 353, 377 (select one) .....	3	
Anthropology 303, 306, 307, 308, 327, 350, 351, 410 (select one) .....	3	
Anthropology 309, 310, 331, 333 <sup>2</sup> , 334-338, 339, 340, 346 <sup>2</sup> , 352, 385, (select any two) .....	6	
Anthropology electives .....	6	36
Supporting Courses		
Electives in the Division of Social Sciences (other than Anthropology), of which 6 hours must be at 300 level or above .....	18	
<b>Minimum Electives</b> .....		11
<b>Minimum Total</b> .....		121

Only 40 hours in the major department may be applied toward the Bachelor of Arts Degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

<sup>2</sup> Fulfills WR requirement.

## Anthropology

Minor in Anthropology

**Minor:** ANTH

**Unit:** College of Arts and Sciences (AS)

The student may choose either Option A, Option B, or the Forensics Minor.

	Semester Hours	Total
Option A: Archaeology track:		
Anthropology 201, 202 .....	6	
Anthropology 204 .....	3	
Anthropology 314, 316, 320, 322 (select one) .....	3	
Anthropology 327, 330, 353, 376, 377, (select one) .....	3	
Electives from: Anthropology 303, 306, 319, 323, 331, 334, 335, 337, 448, 450, or any course above not used to fulfill requirement .....	9	
<b>Minimum Total</b> .....		24

Option B: Socio-Cultural track:

Anthropology 201, 202, 204 .....	9
Anthropology 448 .....	3
Anthropology 315, 317, 318, 319, 320, 323, 324, 325, (select one) .....	3
Anthropology electives .....	9
<b>Minimum Total</b> .....	24

## Anthropology

Minor in Forensic Anthropology

**Minor:** FORS

**Unit:** College of Arts and Sciences (AS)

Anthropology 202, 204, 327, 373, 410 .....	15
Chemistry 201 or Biology 260 or 360 .....	3
Two courses from:	
ANTH 377, 350, 401	
JA 355, 425	
PSYC 383 .....	6

**Minimum Total**.....24

## Art

Bachelor of Arts in Art

**Major:** ART

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

*All students wishing to major in the Department of Fine Arts specializing in studio art must complete and submit a separate "Application for Admission" to the department. Admission is selective and enrollments may be limited. Studio art courses may be restricted to majors only. Enrolled University of Louisville students may obtain an application and apply through the department's offices. Incoming and transfer students must be accepted by the University first, and then apply for admission to the department. Students are expected to meet the minimum overall grade point standards for the College of Arts & Sciences. In addition, a grade of "D" in any department course at the 300 level or above may not be used to fulfill a departmental requirement.*

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
Arts & Sciences Programmatic Requirements		
General 101: A&S Orientation .....	1	
Foreign Language .....	12	
(completion of the intermediate level of a single foreign language)		
Electives in Natural Sciences or Social Sciences (in addition to courses counted toward General Education; 6 hours must be at the 300 level or above).....	9	22
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
Department of Fine Arts		
Art 105, 106, 115, 116 .....	12	
Art History 250 <sup>1</sup> and 270 .....	6	
Art History elective at the 300 level or above .....	3	
Art 301, 315, 321, 331, 341, 351, 361, 371, 381, 390 (select 4) .....	12	33
<b>Note:</b> A grade of C- or better is required in all 300-level courses in the major.		

Supporting Courses	
Humanities 591, 592, 593, 594, 595 or 596 .....	3
Electives in Humanities disciplines, other than Art or Art History, at the 300 level or above .....	15 .....
<b>Minimum Electives</b> .....	<b>14</b>
<b>Minimum Total</b> .....	<b>121</b>

Note: a maximum of 6 hours of Art or Art History may be used in the free electives.

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree. Courses in art history are calculated in the 40 hours allowed for art majors.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

## Art

Bachelor of Fine Arts in Art

**Major:** ART

**Degree:** BFA

**Unit:** College of Arts and Sciences (AS)

*The B.F.A. degree is primarily intended for professionally oriented art students and for those planning to pursue graduate work in the studio arts. Admission is selective, and enrollments may be limited. Enrolled University of Louisville students may apply for admission to the BFA program upon completion of the Foundation Program and the introductory course to the area of concentration, with a minimum gpa of 3.0 in studio art courses. Students must maintain an overall grade point average of 2.25 or above to remain eligible for the BFA program.*

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		<b>34</b>

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

Arts & Sciences Programmatic Requirements

General 101: A&S Orientation .....

Electives in Natural Sciences or Social Sciences

(in addition to courses counted toward General Education;

6 hours must be at the 300 level or above) .....

WR—two approved courses at the 300 level or above

(may be incorporated into other degree requirements)

Department of Fine Arts

Art 105, 106, 115, 116 .....

Art History 250<sup>1</sup> and 270 .....

Art History electives at 300 level or above .....

Studio Art electives at the 300 level .....

Art 596 or 597 .....

Minimum electives in Studio Art or Art History at the 300 level or

above to bring total hours in Art and Art History to 61 .....

Studio Art Concentration (listed below) .....

**Concentrations:**

**Interior Architecture:** (24 hours)

Art 561, 562, 563, 564, 565, 566, 567, 568

**Communication Art and Design:** (18 hours)

Art 571, 572, 573, 574, 575, 576

**2-D Studios:** (15 hours)

Art 501, 502, 515, 516, 517,

541, 542, 543, 551, 552 553, 554, 555 (select 5)

**3-D Studios:** (15 hours)

Art 521, 522, 523, 531, 532, 534, 581,

582, 583, 584, 590 (select 5)

## Supporting Courses

Humanities 591, 592, 593, 594, 595, or 596 .....

Electives in Humanities disciplines, other than Art or Art History,  
at the 300 level or above .....

**Minimum Electives** [No elective are required in this program;

students who fulfill general education requirements with  
courses in the major or supporting courses may have electives.]

**Minimum Total** .....

At least 50 of the total minimum hours required must be at the 300 level or above.

A grade of C- or better is required in all 300 and 500-level courses in the major.

<sup>1</sup> Fulfills general education requirement.

## Art

Minor in Art

**Minor:** ART

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Art		
Art 105, 106, 115, 116 .....		12
Any four of the following courses .....		12
Art 301		
Art 315		
Art 321		
Art 331		
Art 341		
Art 351		
Art 361		
Art 371		
Art 381		
Art 390		
<b>Minimum Total</b> .....		<b>24</b>

**Note:** Admission to the Minor in Art is on a space available basis.

## Art Education (P-12)

Teacher Certification

**Unit:** College of Education and Human Development

Students interested in teacher certification first complete a baccalaureate degree in an appropriate academic field before entering the teacher certification program at the graduate level. Students must apply and be accepted into the Master of Arts in Teaching degree program in order to complete teacher certification. Please contact the Education Advising Center for application deadlines.

The following courses are pre-requisites for application to the Master of Arts in Teaching degree in Art Education (P-12). They may be taken as part of the baccalaureate degree program. In addition to these courses, other application credentials must be submitted. For a complete listing of admission requirements and application deadlines, contact the College of Education and Human Development Advising Center.

	Semester Hours
A Bachelor's degree including: Speech Communication (OR Speech Proficiency Exam) .....	3
Teaching major in Art.....	Minimum of 30 hours

For a listing of specific courses, which meet the requirements listed above, contact the College of Education and Human Development Advising Center at (502) 852-5597.

## Art History

Bachelor of Arts in Art History

**Major:** ARTH

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

All students wishing to major in the Department of Fine Arts specializing in art history must complete and submit a separate "Application for Admission" to the department. Admission is selective and enrollments may be limited. Enrolled University of Louisville students may obtain an application and apply through the department's offices. Incoming and transfer students must be accepted by the University first, and then apply for admission to the department. Students are expected to meet the minimum overall grade point standards for the College of Arts & Sciences. In addition, a grade of "D" in any department course at the 300 level or above may not be used to fulfill a departmental requirement.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation .....		1
Foreign Language .....		12
(completion of the intermediate level of a single foreign language)		
Electives in Natural Sciences or Social Sciences.....	9	22
(in addition to courses counted toward General Education; 6 hours must be at the 300 level or above)		
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
<b>Department of Fine Arts</b>		
Art History 250 <sup>1</sup> , 270 .....		6
<b>Note:</b> In the following courses in Art History, 15 hours must be at the 300 level and 6 hours must be at the 500 level.		
<b>Ancient period:</b>		
Art History 351, 352, 353, 551, 552 or 553 .....		3
<b>Medieval period:</b>		
Art History 362, 363, 561, 562 or 563 .....		3
<b>Renaissance or Baroque period:</b>		
Art History 345, 371, 372, 373, 381, 382, 383, 571, 574 or 581 .....		3
<b>Modern period:</b>		
Art History 341, 343, 344, 391, 392, 393, 394, 395, 396, 397, 398, 591, 593 or 597 .....		3
Electives in Art History to bring minimum total to 27 hours .....		9
<b>Supporting Courses</b>		
Humanities 591, 592, 593, 594, 595 or 596 .....		3
Courses in Humanities disciplines other than Art or Art History, at 300 level or above .....	15	18
<b>Minimum Electives</b> .....		20
<b>Minimum Total</b> .....		121

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree. Courses in studio art are calculated in the 40 hours allowed for art history majors.

At least 50 of the total minimum hours required must be at the 300 level or above.

A grade of C- or better is required in all 300 and 500-level courses in the major.

<sup>1</sup> Fulfills general education requirement.

## Art History

Minor in Art History

**Minor:** ARTH

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
<b>Art History</b>		
Art History 250, 270 .....		6
Art History electives at 300 level, including no more than one from each of these periods: Ancient, Medieval, Renaissance and Baroque, and Modern .....		9
Art History elective at 500 level .....		3
<b>Minimum Total</b> .....		18

## Biology

Bachelor of Arts in Biology

**Major:** BIOL

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation .....		1
Foreign Language .....		12
(completion of the intermediate level of a single foreign language)		
Electives in Humanities or Social Sciences, at 300 level or above (in addition to courses counted toward General Education) .....		9
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
<b>Department of Biology</b>		
Biology 240 <sup>1</sup> , 242 <sup>1</sup> , 244 <sup>1</sup> , 301-302, 329, 330-331 .....		21
*Biology Electives .....		17
<b>Supporting Courses</b>		
Chemistry 201 <sup>1</sup> , 202, 207, 208, 209, 341, 342, 343, 344 .....		17
Mathematics 180 <sup>1</sup> or 205 .....		3-4
Mathematics 109, Psychology 301, or Biology 350 .....		3
<b>Minimum Electives</b> .....		3-4
<b>Minimum Total</b> .....		121

Only 40 hours in the major department may be applied toward the Bachelor of Arts Degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

\* **Note:** Biology 102, 104, 257, 258, 260, 261, 262 and 263, may not count toward electives in the major. A maximum of 6 hours of undergraduate research or independent study may count toward the major.

## Biology

Bachelor of Science in Biology

**Major:** BIOL

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

Arts & Sciences Programmatic Requirements

General 101: A&S Orientation.....1

Electives in Humanities or Social Sciences, at 300 level or above  
(in addition to courses counted toward General Education) .....6 .....

WR—two approved courses at the 300 level or above  
(may be incorporated into other degree requirements)

Department of Biology

Biology 240<sup>1</sup>, 242<sup>1</sup>, 244<sup>1</sup>, 301, 302, 329, 330-331 .....21

\*Electives in Biology  
(to reach minimum total of 48 hours in Biology) .....8-18

Completion of one of the concentrations below .....9-19 .....

Genetics/Subcellular (16-18 hours)

Biology 416, 516, 404, or 406 .....3-4

Biology 542 or 415 .....3

Biology 540 or Chemistry 445 .....3

Biology 336, 351, 400, or 485 .....4

Biology 465, 500 or 523 .....3-4

Cellular/Physiology (15-19 hours)

Biology 465 or 523 .....3-4

Biology 325, 336, 347, 348, 357, 400, 409, 415, 485,  
500, 512, 513 (select 3) .....9-12

Biology 540 or Chemistry 445 .....3

Ecology (9-10 hours)

Biology 410 or 568 .....3

Biology 409 .....3

Biology 420, 522, 524, 555, 562, 563 (select one) .....3-4

Organismal Biology (15-19 hours)

Biology 465 or 523 .....3-4

Biology 409, 562, 563, 572 (select one) .....3-4

Biology 325 or 500 .....3-4

Biology 305 or 382 .....3-4

Biology 514, 519, 529, 532 (select one) .....3

Supporting Courses

Mathematics 205<sup>1</sup>, 206 .....8

Chemistry 201<sup>1</sup>, 202, 207, 208, 209, 341, 342, 343, 344 .....17

Physics 221, 222, 223, 224 or Geosciences 201, 203, 220 .....7-8

Mathematics 109, Psychology 301, or Biology 350 .....3 .....35-36

**Minimum Electives** [No electives are required in this program; students who fulfill math and science general education requirements with courses in the major or supporting courses may have elective hours.]

**Minimum total** .....121

<sup>1</sup> Fulfills general education requirement.

\* Note: Biology 102, 104, 257, 258, 260, 261, 262 and 263 will not count as electives in the major. A maximum of 6 hours of undergraduate research or independent study may count toward the major.

## Biology

Minor in Biology

**Minor:** BIOL

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Biology 240 <sup>1</sup> , 242 <sup>1</sup> , 244 <sup>1</sup> , 301, 302, 329, 330, 331 .....		21

**Minimum Total**.....21

<sup>1</sup> Fulfills general education requirement.

## Business Administration

Minor in Business Administration

**Minor:** BA

**Unit:** College of Business and Public Administration (BU)

The College of Business and Public Administration offers a minor in business for students in other colleges and schools at the University of Louisville. Enrollment is limited in the business minor because of the large demand for courses by business majors. To pursue a minor in business the student must have completed 51 or more semester hours, which includes ECON 201 and 202, with a cumulative grade point average of 2.5 or higher. Students must complete and have a grade point average of 2.5 or higher in the business program prerequisites to be permitted to pursue the business program core. Upon completion of the admission requirements and formal application, the student is admitted into the Business Minor program based on the student's academic performance and the space available. An appointment may be made during the semester that the program prerequisites are being completed to begin the application process.

	Semester Hours	Total
<b>Program Prerequisites</b>		
CIS 100 Microcomputer Applications .....	3	
MGMT 201 Business Statistics or equivalent .....	3	
ACCT 201 Principles of Accounting I .....	3	
ACCT 202 Principles of Accounting II .....	3	12
<b>Program Core</b>		
MGMT 301 Management and Org. Behavior .....	3	
MKT 301 Principles of Marketing.....	3	
FIN 301 Corporate Finance .....	3	
CIS 300 Computer Information Systems .....	3	
Business Elective .....	3	15
<b>Minimum Total</b> .....		27

## Business Economics

Bachelor of Science in Business Economics

**Major:** BUEC

**Degree:** BSE

**Unit:** College of Business and Public Administration (BU)

+ See general education requirements in the General Information section of this Catalog.

	Semester Hours	Total
<b>University wide General Education</b>		
English 101 and 102	6	
Comm 111, 112, 115, PoIS 111, or WMST 203	3	
Math (See Programmatic Req.)	*(3)	
+ Natural Sciences	7	
+ Arts & Humanities	6	
+ Social & Behavioral Sciences	*(9)6	28(34)
* <b>Note:</b> Programmatic Requirements include six hours of the Gen. Ed. (3 hours Math and 3 hours Social & Behavioral Sciences)		
<b>Programmatic Requirements of the CBPA</b>		
Camp 100 Campus Culture	1	
Mathematics 107 and 205 <sup>2</sup> *(Completes Math Gen Ed)	7	
Logic, Phil 311 or 312	3	
Ethics, Phil 222, 225, 321 or 323	3	
English 306 Business Writing	3	
Accounting 201-202	6	
Economics 201-202 *(Completes 3 hours of Soc. & Beh Sci.)	6	
Management 201 (Statistics)	3	
CIS 100 Microcomputer Applications	3	35
<b>Computer Systems</b>		
CIS 300 Computer Information Systems	3	3
<b>Economics Depth</b>		
ECON 301 Intermediate Microeconomic Theory	3	
ECON 302 Intermediate Macroeconomic Theory	3	
ECON 475 Economics Seminar	3	
Electives in Economics <sup>1</sup>	15	
Electives in Business or Economics <sup>1</sup>	15	
Arts & Sciences Electives <sup>2</sup>	18	57
<b>Minimum Total</b>		<b>123<sup>3</sup></b>

<sup>1</sup> Economics and business electives must be approved by the Chair of the Department of Economics.

<sup>2</sup> Math 205 must be taken as a required math course for all CBPA economic majors. Its prerequisite MATH 190, may be used as an Arts and Sciences elective.

<sup>3</sup> Six hours of cultural diversity courses are required and may be incorporated within the degree program.

\*\* All prerequisites must be followed (see undergraduate catalog).

## Chemical Engineering

Bachelor of Science in Chemical Engineering

**Major:** CHE

**Degree:** BCH

**Unit:** SS

Students specializing in Chemical Engineering will complete the program outlined below. Four semesters in the General Engineering Studies Division are followed by a further period of study in the Professional School of Engineering. This is comprised of seven semesters in the Basic Studies Division (for the Bachelor of Science degree) and the graduate/professional year in the Higher Studies Division (for the Master of Engineering degree). This curriculum is designed as an integrated five-year program, with a cooperative education component, culminating in the Master of Engineering degree that is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET).

	Semester Hours	Total
<b>General Engineering Studies Division</b>		
Arts/CD/Hum/SBS Electives <sup>1</sup>	6	
CECS 120 <sup>3</sup> or 121 <sup>3</sup> or CIS 100 <sup>3</sup> or 110 <sup>3</sup>	1-3	
ChE 251 <sup>2</sup> , 253, 305 <sup>2</sup> , 288	11	
CHEM 201 <sup>1</sup> , 202, 207, 208, 209, 341, 343	13	
COMM 111 <sup>1</sup> , 112 <sup>1</sup> , or 115 <sup>1</sup>	3	
EAC 101 <sup>1</sup> , 102, 104, 201, 205	15	
EG 105, 214	2	
ENGL 101 <sup>1</sup> , 102 <sup>1,4</sup>	6	
PHYS 295 <sup>1</sup> , 296, 298 <sup>1</sup> , 299	10	67-69
<b>Basic Studies Division<sup>5</sup></b>		
Advanced Chemistry Elective <sup>6</sup>	3	
Arts/CD/Hum/SBS Electives <sup>1</sup>	3	
CEE 307	2	
ChE 288, 289, 311, 312, 331, 389, 401, 430, 434, 435, 436, 441, 461, 471, 485, 486, 489, 572	44	
Free Electives	6	
HIST XXX <sup>1</sup>	3	
IE 360	3	
PHIL 321 <sup>7</sup> , 222 <sup>1,7</sup> , 225 <sup>7</sup> , 323 <sup>7</sup> , or 328 <sup>7</sup>	3	
Science Elective <sup>8</sup>	3	70
<b>Minimum Total</b>		<b>137</b>

The curriculum in this degree program is structured to require that students develop skills and competency in Computer and Information Literacy, as one of the modern engineering tools necessary for professional practice.

<sup>1</sup> General Education Content Area requirement for this program; the University-wide General Education requirements are detailed elsewhere in this publication.

<sup>2</sup> Progress to the third year of the program requires an overall grade point average of 2.5 or greater and a 2.5 or greater for ChE 251 and ChE 305 combined. Courses in which grades of "D" were received may be repeated according to the regulation governing "Repetition of Courses".

<sup>3</sup> Students are expected to have an adequate background in PC applications (word processing, spreadsheets) before taking ChE 251 and 305, and in structured programming before taking ChE 430. Since some students may enter college better prepared than others in these areas, a minimum of 1 hour and up to 3 hours of computer courses will be applicable to this degree. It is the student's responsibility to ensure adequate computer background.

<sup>4</sup> Students completing ENGL 105 in lieu of ENGL 101 and ENGL 102 are recommended to take ENGL 303 -Technical Writing.

<sup>5</sup> A student may accumulate no more than three "D" grades in ChE prefixed courses. Any additional "D" grades beyond three must be repeated, according to the "Repetition of Courses" regulation. If a student accumulates more than one "D" in any one year of the program, it is strongly recommended that s/he repeat one or more of those courses to earn a better grade before proceeding to the next course in the sequence.

<sup>6</sup> Select one course from the following list: CHEM 342, 445, 450, 515, 527, 545, 550, 557, 561, 576 or ChE 402, 532, 550, 551. The course so chosen cannot be a course, or courses, which have been counted elsewhere, in whole or in part, as part of the degree program.

<sup>7</sup> This course satisfies the departmental requirement of having an "Ethics" course; only PHIL 222 is accepted for the General Education content requirement in Humanities.

<sup>8</sup> Select one course from the following list: BIOL 240, 242, 257, 263, 301, 329, 330, or CHEM 342, 445, 450 or PHYS 300, 315 or GEOS 201, 301, 305, 360, 370.

## Chemical Engineering

Bachelor of Science in Chemical Engineering with Concentration in Biochemical Engineering

**Major:** CHE

**Concentration:** BioE

**Degree:** BCH

**Unit:** SS

Students specializing in Chemical Engineering (with biochemical engineering concentration) will complete the program outlined above with the minor modifications outlined in the table below. Four semesters in the General Engineering Studies Division are followed by a further period of study in the Professional School of Engineering. This is comprised of seven semesters in the Basic Studies Division (for the Bachelor of Science degree) and the graduate/professional year in the Higher Studies Division (for the Master of Engineering degree). This curriculum is designed as an integrated five-year program, with a cooperative education component, culminating in the Master of Engineering degree that is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET).

<b>Courses removed from traditional Chemical Engineering</b>	<b>Courses substituted for Biochemical Engineering concentration</b>
Science Elective	Biol 329 — Cellular and Molecular Biology
Free Elective	ChE 402 — Biochem Eng Fundamentals
Free Elective	Biol or Biochem elective <sup>1</sup>
Advanced Chemistry Elective	Chem 342 — Organic Chemistry II
ChE 436	ChE 4XX — BIOSEP Operations
ChE 572	ChE 4XX — Biotech Facility Design
ChE 486	ChE 4XX — Bioprocess Engineering ..... Laboratory

All other courses will be the same as in traditional chemical engineering.

**Minimum Total.....137**

The curriculum in this degree program is structured to require that students develop skills and competency in Computer and Information Literacy, as one of the modern engineering tools necessary for professional practice.

<sup>1</sup> Choose one course from BIOL 257, 330, 465 or CHEM 445 (Intro to Biochemistry)

## Chemical Engineering

Master of Engineering in Chemical Engineering

**Major:** CHE

**Degree:** MEN

**Unit:** SS

The Bachelor of Chemical Engineering degree (with or without the concentration in biochemical engineering) will provide a student with the basis to be able to complete the Master of Engineering in Chemical Engineering degree.

In addition to the overall GPA of 2.50 for unconditional admission, the following additional requirements are in place. Undergraduate grade point average of 2.50 for all CHE prefixed course work completed. Higher studies applicants who lack a 2.75 GPA overall, and/or a 2.75 GPA in CHE coursework, will, in general, not be accepted until grades are available for all their undergraduate CHE courses. An applicant who has earned more than one D grade in a CHE prefix course will not be admitted to Higher Studies until any excess D grades have been improved.

The Master of Chemical Engineering degree requires the following over and above the Bachelor of Chemical Engineering Degree.

	<b>Semester</b>
	<b>Hours      Total</b>
Higher Studies Division <sup>1</sup>	
ChE 562, 595, 610, 620, 641, 686, XXX <sup>2</sup> , XXX <sup>2</sup> , XXX <sup>2</sup> , XXX <sup>2</sup> .....	26
Thesis Alternative - ChE 697 <sup>3</sup>	
Or	
Course Work And Project Alternative - ChE 698, 699 <sup>5</sup> .....	6
<b>Minimum Total .....</b>	<b>32<sup>4</sup></b>

<sup>1</sup> A student entering the Division of Higher Studies will be required to select either the thesis alternative path or the course work and project alternative path for the degree program.

<sup>2</sup> A student specializing in ChE is required to select four approved electives (500 or 600 level) totaling at least 12 semester hours. By proper choice of these electives, a student may develop specific strengths in areas such as materials, process control, mass transfer and separations, pollution prevention, or bioengineering. However, depending on faculty availability and other departmental needs, sufficient courses may not be offered in any one or two year period to allow a student to specialize in some of these areas. These electives need not necessarily be Chemical Engineering courses, but the student's research advisor and academic advisor must approve non-Chemical Engineering courses.

<sup>3</sup> A regularly enrolled student selecting the thesis alternative is required to select both an approved M.Eng. thesis topic and the members of the thesis committee during the first term of the graduate/professional year. Six (6) semester hours of ChE 697 are required to satisfy the minimum M.Eng. thesis requirements.

<sup>4</sup> The five-year total for the M.Eng. degree is 169 semester hours.

<sup>5</sup> A student selecting the course work alternative will substitute ChE 698 and ChE 699 for 6 hours of MEng thesis.

## Chemical Engineering

Master of Science Program in Chemical Engineering

The Department also offers, through the Graduate School, a program leading to the Master of Science degree in Chemical Engineering. This program is intended for persons having an accredited baccalaureate degree in chemical engineering from another institution, but is available to those with other backgrounds. Remedial work may be specified for those applicants who, in the opinion of the faculty, are not sufficiently prepared to study advanced chemical engineering (e.g., B.S. biologists, chemists, physicists); approximately one year of undergraduate courses may be required. Students interested in the Master of Science degree program should consult the Graduate School Catalog or the Graduate Student Advisor of the Department of Chemical Engineering.

Ph.D. Program in Chemical Engineering

The Department also offers, through the Graduate School, a program leading to the Doctor of Philosophy degree in Chemical Engineering. This program is intended for persons having an accredited master's and/or baccalaureate degree in chemical engineering from U of L or another institution, but is available to those with other backgrounds. Remedial work may be specified for those applicants who, in the opinion of the faculty, are not sufficiently prepared to study advanced chemical engineering (e.g., B.S. biologists, chemists, physicists); approximately one year of undergraduate courses may be required. Students interested in the Ph.D. degree program should consult the Graduate School Catalog or the Graduate Student Advisor of the Department of Chemical Engineering.



## Chemistry

### Bachelor of Arts in Chemistry

**Major:** CHM

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

The B.A. degree in chemistry is designed for students who want a more general education than is possible in the B.S. curriculum, while at the same time receiving a substantial background in chemistry. For several related fields this program offers a broad pre-professional education.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation.....	1	
Foreign Language .....	12	
(completion of the intermediate level of a single foreign language)		
Electives in Humanities or Social Sciences .....	9	22
(in addition to courses counted toward General Education; 6 hours must be at 300 level or above)		
WR—two approved courses at the 300 level or above <sup>2</sup> (may be incorporated into other degree requirements)		
<b>Department of Chemistry</b>		
Chemistry 2011-202, 2071-210 .....	10	
Chemistry 341-342, 343-344 .....	8	
Chemistry 441, 470 <sup>2</sup> .....	5	
Chemistry 527 <sup>2</sup> .....	3	
Chemistry electives at advanced level <sup>3, 4</sup> .....	11	37
<b>Supporting Courses</b>		
Mathematics 205 <sup>1</sup> , 206 .....	8	
Physics 221 <sup>1</sup> , 222, 223, and 224; or Physics 295-296 and 2981-299 .....	8-10	
<b>Statistics or Logic (select one from the following):</b> Justice Administration 326; Management 201; Mathematics 109, 555, 560, 562; Pan African Studies 408; Philosophy 311, 312, 512; Political Science 390; Psychology 301, Sociology 301 .....		
	3	19-21
<b>Minimum Electives</b> .....		7-9
<b>Minimum Total<sup>5</sup></b> .....		<b>121</b>

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

<sup>2</sup> Chemistry 470 and 527 will fulfill the WR requirement.

<sup>3</sup> Independent Study may not be used for this requirement.

<sup>4</sup> Electives include CHEM 320, 445, 450, 515, 528, 529, 546, undergraduate research (391-2; 491-2; 3 hrs. maximum) or cooperative internship (420; 3 hrs. maximum). With the consent of the instructor(s), graduate level courses in Chemistry may also be used to fulfill these requirements.

<sup>5</sup> Includes some credit for courses in the major, or in supporting courses, that meet General Education requirements.

## Chemistry

### Bachelor of Science in Chemistry

**Major:** CHM

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

The B.S. degree is designed to prepare professional chemists for industrial, governmental, academic, and research positions. This curriculum meets approved requirements for professional training.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation.....	1	
Electives in Humanities or Social Sciences at 300 level or above .....	6	7
(in addition to courses counted toward General Education.)		
WR—two approved courses at the 300 level or above <sup>2</sup> (may be incorporated into other degree requirements)		
<b>Department of Chemistry</b>		
Chemistry 2011-202, 2071-210 .....	10	
Chemistry 341-342, 343-344 .....	8	
Chemistry 461-462, 470 <sup>2</sup> .....	8	
Chemistry 445 .....	3	
Chemistry 450 .....	3	
Chemistry 515 .....	3	
Chemistry 527 <sup>2</sup> .....	3	
Chemistry 528, 529 .....	6	
Undergraduate Research or Cooperative Internship .....	3	47
<b>Supporting Courses</b>		
Foreign Language (two semesters of one language) .....	6-8	
Mathematics 205 <sup>1</sup> , 206 and 301 .....	12	
Physics 2211-224, or 2951-296 and 2982-299 .....	8-10	
<b>Statistics or Logic (select one from the following):</b> Justice Administration 326; Management 201; Mathematics 109, 555, 560, 562; Pan African Studies 408; Philosophy 311, 312, 512; Political Science 390; Psychology 301, Sociology 301 .....		
	3	35-39
Elective in Mathematics, Physics, or Chemistry at 300 level or above.....	3	
Elective in Natural Sciences Division, other than Chemistry, at the 300 level or above <sup>3</sup> .....	3	35-39
<b>Minimum Electives</b> [No electives are required in this program; students who fulfill math and science general education requirements with courses in the major or supporting courses may have elective hours.]		
<b>Minimum Total<sup>4</sup></b> .....		<b>121</b>
Only 60 hours in the major department may be applied toward the Bachelor of Science degree.		
At least 50 of the total minimum hours required must be at the 300 level or above.		
<sup>1</sup> Fulfills general education requirement.		
<sup>2</sup> Chemistry 470 and 527 will fulfill the WR requirement.		
<sup>3</sup> One or both of Math 325 or Math 405 are strongly recommended.		
<sup>4</sup> Includes some credit for courses in the major, or in supporting courses, that meet General Education requirements.		

## Chemistry

Bachelor of Science in Chemistry with concentration in Biochemistry

**Major:** CHM

**Concentration:** BIOC

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

This degree is designed to prepare students for a career that combines both chemistry and modern biology.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

### Arts & Sciences Programmatic Requirements

General 101: A&S Orientation.....1

Electives in Humanities or Social Sciences at 300 level or above .....6 .....7

(in addition to courses counted toward General Education)

WR—two approved courses at the 300 level or above<sup>2</sup>

(may be incorporated into other degree requirements)

### Department of Chemistry

Chemistry 201<sup>1</sup>-202, 207<sup>1</sup>-210.....10

Chemistry 341-342, 343-344.....8

Chemistry 461-462, 470<sup>2</sup>.....8

Chemistry 527<sup>2</sup>.....3

Chemistry 545, 547.....6

Chemistry 546.....2

Undergraduate Research or Cooperative Internship.....3 .....40

### Supporting Courses

Biology 329, 330, 331, 542.....11

Chemistry or Biology electives from the following list

(at least 6 hours of which must be in Chemistry).....7-9

Biology 357 or 485, 358, 400, 465, 516

Chemistry 450, 515, 528, 529, 557

Mathematics 205<sup>1</sup>, 206, 301.....12

Physics 221<sup>1</sup>, 222, 223, and 224;

or Physics 295-296, 298<sup>1</sup>-299.....8-10

Statistics or Logic (select one from the following):

Justice Administration 326; Management 201;

Mathematics 109, 555, 560, 562; Pan African Studies 408;

Philosophy 311, 312, 512; Political Science 390;

Psychology 301; Sociology 301.....3 .....41-45

**Minimum Electives** [No electives are required in this program; students who fulfill math and science general education requirements with courses in the major or supporting courses may have elective hours.]

**Minimum Total**<sup>3</sup> .....122-124

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

<sup>2</sup> Chemistry 470 and 527 will fulfill the WR requirement.

<sup>3</sup> Includes some credit for courses in the major, or in supporting courses, that meet General Education requirements.

## Chemistry

Bachelor of Science in Chemistry with concentration in Business

**Major:** CHM

**Concentration:** BUS

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

This degree combines a general program in chemistry with a fundamental program in business. The curriculum is designed to prepare chemists for industrial and governmental positions.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

### Arts & Sciences Programmatic Requirements

General 101: A&S Orientation.....1

Electives in Humanities or Social Sciences at 300 level or above .....6 .....7

(in addition to courses counted toward General Education)

WR—two approved courses at the 300 level or above<sup>2</sup>

(may be incorporated into other degree requirements)

### Department of Chemistry

Chemistry 201<sup>1</sup>-202, 207<sup>1</sup>-210.....10

Chemistry 341-342, 343-344.....8

Chemistry 441, 470<sup>2</sup>.....5

Chemistry 527<sup>2</sup>.....3

Chemistry electives at 300 level or above

(other than Independent Study)

or Undergraduate Research (Chemistry 491-492)<sup>3</sup>.....13-15 .....39-41

### Supporting Courses

Mathematics 205<sup>1</sup>-206.....8

Physics 221<sup>1</sup>, 222, 223 and 224,

or Physics 295-296, 298<sup>1</sup>-299.....8-10

Economics 201 and 202.....6

Computer Information Systems 100 and 300.....6

Accounting 201 and 202.....6

Management 201.....3

Management 301.....3

Marketing 301.....3

Finance 301.....3

Elective in the School of Business.....3 .....49-51

No electives are required in this program; students who fulfill math and science general education requirements with courses in the major or supporting courses may have elective hours

**Minimum Total**<sup>4</sup> .....121

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

<sup>2</sup> Chemistry 470 and 527 will fulfill the WR requirement.

<sup>3</sup> Electives include CHEM 320, 445, 450, 515, 528, 529, 546, undergraduate research (391-2; 491-2; 3 hrs. maximum) or cooperative internship (420; 3 hrs. maximum). With the consent of the Instructor(s), graduate level courses in Chemistry may also be used to fulfill these requirements.

<sup>4</sup> Includes some credit for courses in the major, or in supporting courses, that meet General Education requirements.

## Chemistry

Minor in Chemistry

**Minor:** CHM

**Unit:** College of Arts and Sciences (AS)

The student may choose either Track I or Track II.

	<b>Semester Hours</b>	<b>Total</b>
<b>Track I (Life Science Track)</b>		
Chemistry 201, 202, 207, 208, 209, 210 .....	10	
Chemistry 341, 342, 343, 344 .....	8	
Chemistry 441 .....	3	
<b>Minimum Total</b> .....		<b>21</b>
<b>Track II (Physical Science Track)</b>		
Chemistry 201, 202, 207, 208 .....	8	
Chemistry 341 .....	3	
Chemistry 461, 462 .....	6	
Chemistry 450 .....	3	
<b>Minimum Total</b> .....		<b>20</b>

## Chinese Studies

Minor in Chinese Studies

**Minor:** CHST

**Unit:** College of Arts and Sciences (AS)

	<b>Semester Hours</b>	<b>Total</b>
Chinese 301 and 302 .....	6	
Any three courses in Chinese Studies (CHST) .....	9	
History 398; Humanities 307, 342, 343, 369; Political Science 365 (select one) .....	3	
<b>Minimum Total</b> .....		<b>18</b>

## Civil Engineering

Bachelor of Science in Civil Engineering

**Major:** CE

**Degree:** BCE

**Unit:** SS

Students specializing in Civil Engineering will complete the program outlined below: four semesters in the General Engineering Studies Division and a further period of study in the Professional School of Engineering - eight semesters in the Basic Studies Division (for the Bachelor of Science degree) and the graduate/professional year in the Higher Studies Division (for the Master of Engineering degree). This curriculum is designed as an integrated five-year program, with a cooperative education component, culminating in the Master of Engineering degree that is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET). Subject matter in this program is highly computer-oriented and follows a computer-aided engineering approach. On entering the Professional School, the student may choose an area of concentration by selecting, in consultation with the faculty advisor, appropriate Civil and Environmental Engineering elective courses.

Appropriate design experiences are presented to students throughout the civil engineering curriculum, starting with CEE 260 (surveying) at the sophomore level, where basic group dynamics and open-ended project development concepts are introduced. Design experiences continue through CEE 680 (capstone design). At the junior level (e.g., CEE 370), students are taught many of the fundamentals required to perform more extensive open-ended design projects in civil engineering. At the senior and MEng levels, there are major, open-ended design projects required in geotechnical and structural engineering (e.g., CEE 452 and CEE 652), transportation engineering (e.g., CEE 560 and CEE 665), and water resources engineering (e.g., CEE 570 and CEE 670). Throughout the duration of their academic careers, most students take a great number of these and similar courses; specific course selection depends on the student's chosen area of specialization and guidance from his or her faculty advisor.

Students are also exposed to various levels of design experience in their three required co-ops. By the end of the fifth year (i.e., the culmination of the MEng program), students have had the opportunity to thoroughly and extensively exercise the design principles learned earlier in the curriculum and co-op experience through participation in the capstone design course (CEE 680).

	<b>Semester Hours</b>	<b>Total</b>
<b>General Engineering Studies Division</b>		
Arts/CD/Hum/SBS Electives <sup>1</sup> .....	3	
CEE 201, 205, 254, 255, 260, 261, 288 .....	12	
CHEM 201 <sup>1</sup> .....	3	
COMM 111 <sup>1</sup> or 112 <sup>1</sup> .....	3	
EAC 101 <sup>1</sup> , 102, 104, 201, 205 .....	15	
ECE 252 .....	3	
EG 105, 214 .....	2	
ENGL 101 <sup>1</sup> , 102 <sup>1</sup> .....	6	
ME 206, 251 .....	6	
PHYS 295 <sup>1</sup> , 298 <sup>1</sup> , 299 .....	9	
<b>Basic Studies Division</b>		
Arts/CD/Hum/SBS Electives <sup>1</sup> .....	9	
CEE 289, 307, 309, 320, 330, 370 <sup>1</sup> , 371, 380, 389, 401 <sup>1</sup> , 402, 420, 421, 422, 450, 451, 452, 460, 470, 471, 489, 530 <sup>1</sup> .....	51	
GEOS 301 .....	3	
HIST XXX <sup>1</sup> .....	3	
IE 360 <sup>1</sup> , 570 .....	6	
<b>Minimum Total</b> .....		<b>134</b>

The curriculum in this degree program is structured to require that students develop skills and competency in Computer and Information Literacy, as one of the modern engineering tools necessary for professional practice.

<sup>1</sup> General Education Content Area requirement for this program; the University-wide General Education requirements are detailed elsewhere in this publication.

## Civil Engineering

Master of Engineering in Civil Engineering

**Major:** CE

**Degree:** MEN

**Unit:** SS

	<b>Semester Hours</b>	<b>Total</b>
<b>Higher Studies Division</b>		
CEE 504, 505, 680, 697 <sup>1,2</sup> .....	9	
In addition, at least 21 semester hours of course work must be completed in one of the following specialty areas: <sup>3</sup>		
<b>Facilities Engineering</b> (includes courses in geotechnical/structural)		
CEE 520, 522, 552, 604, 620, 621, 625, 650, 651, 652, 653, 654 .....	21	
<b>Public Works Engineering</b> (includes courses in geotechnical/ transportation/water resources)		
CEE 552, 560, 570, 571, 572, 604, 650, 651, 652, 653, 654, 660, 662, 665, 670, 673, 674 .....	21	
At the discretion of the student's advisor, the following Environmental courses may be selected to fulfill program elective requirements for either Facilities Engineering or Public Works Engineering.		
CEE 509, 534, 535, 561, 573, 675, 694		
<b>Minimum Total</b> .....		<b>30<sup>4</sup></b>

<sup>1</sup> A regularly enrolled full-time student is required to select an approved M.Eng. thesis topic and the members of the thesis committee during the first term of the graduate/professional year.

<sup>2</sup> A non-thesis alternative curriculum is available: six hours of approved graduate work may be substituted for six hours of thesis.

<sup>3</sup> Both specialty areas meet the engineering topics criteria of the EAC/ABET.

<sup>4</sup> The five-year total for the M.Eng. degree is 164 semester hours.

## Master of Science in Civil Engineering

In addition to the M.Eng. program, the Civil & Environmental Engineering Department offers a Master of Science degree in Civil Engineering through the Graduate School. This program is appropriate for students not holding a civil engineering baccalaureate degree from the University of Louisville. Consult the Graduate School catalog for degree requirements and contact information.

### Certificate in Environmental Engineering

The Civil & Environmental Engineering Department also offers a certificate program to persons who have completed a graduate program (M.Eng., M.S., or Ph.D.) at Speed Scientific School to provide official recognition of course work in the field of environmental engineering. Consult the Graduate School catalog for program requirements and contact information.

### Doctor of Philosophy in Civil Engineering

The Civil & Environmental Engineering Department offers a program of study leading to the Doctor of Philosophy degree in Civil Engineering. This program provides an opportunity for students to complete advanced course work and conduct independent research in one of two specialization areas; Infrastructure/Facilities Engineering and Environmental Engineering. Persons interested in the Ph.D. program should consult the Graduate School catalog for degree requirements and contact information.

## Classical Languages

Minor in Classical Languages

**Minor:** CLAS

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Greek 201 and 202.....	6	
Latin 201 and 202.....	6	
Electives in Greek or Latin at the 300-level or above.....	6	
<b>Minimum Total.....</b>		<b>18</b>

## Communication

Bachelor of Arts in Communication

**Major:** COMM

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education .....</b>		<b>34</b>
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation.....	1	
Foreign Language .....	12	
(completion of the intermediate level of a single foreign language)		
Electives in Humanities or Natural Sciences at the 300 level or above <sup>2</sup> .....	6	19
(in addition to courses counted toward General Education)		
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
<b>Department of Communication</b>		
Communication 201 <sup>1</sup> , 250, 304, 305, 315, 316 .....	18	
Communication electives at 300 level or above .....	12	
Communication electives at 400 level or above .....	6	36

### Supporting Courses

Mathematics 109, Justice Administration 326,  
Management 201, Pan African Studies 408,  
Political Science 390, Psychology 301,  
Sociology 301 (select one) .....

3

Social Science electives (other than Communication)  
with 12 hours at the 300 level or above  
(in addition to courses counted toward General Education) .....

18<sup>3</sup>

Natural Sciences elective (excluding Mathematics) .....

3

24

(in addition to courses counted toward General Education)

**Minimum Electives .....**

8

**Minimum Total .....**

121

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree. Communication 111, 112, 114, and 115 are not counted in computing the 40 hours for a Communication major.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

<sup>2</sup> Note: additional 3 hours of college programmatic requirement is met in Natural Science requirement in supporting coursework.

<sup>3</sup> Only 15 hours needed if statistics requirement fulfilled in a social science discipline.

## Communication

Bachelor of Science in Communication

***This program is pending approval. Consult the Department or the Arts and Sciences Advising Center regarding its availability.***

**Major:** COMM

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

**Note:** 2.50 GPA required for admission to the B.S. program.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education .....</b>		<b>34</b>
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation.....	1	
Electives in Humanities or Natural Sciences at the 300 level or above .....	6	7
(in addition to courses counted toward General Education)		
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
<b>Department of Communication</b>		
Communication 201 <sup>1</sup> , 250, 304, 305, 315, 316, 317 .....	21	
Communication 302 or 319 .....	3	
Communication 320, 323, 345 or 348 .....	3	
(in addition to WR courses for college programmatic requirements)		
Communication electives at 300 level or above .....	15	
Communication electives at 400 level or above .....	6	48
<b>Supporting Courses</b>		
Mathematics 109, Justice Administration 326, Management 201, Pan African Studies 408, Political Science 390, Psychology 301, Sociology 301 (select one) .....	3	
Social Science electives (other than Communication) with 12 hours at the 300 level or above (in addition to courses counted toward General Education) .....	18 <sup>2</sup>	
Natural Sciences elective (excluding Mathematics) .....	3	24
(in addition to courses counted toward General Education)		
<b>Minimum Electives .....</b>		<b>8</b>
<b>Minimum Total .....</b>		<b>121</b>

Only 60 hours in the major department may be applied toward the Bachelor of Science degree. Communication 111, 112,114, and 115 are not counted in computing the 60 hours for a Communication major.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

<sup>2</sup> Only 15 hours needed if statistics requirement fulfilled in a social science discipline.

## Communication

Minor in Communication

**Minor:** COMM

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Communication 201, 305 .....	6	
Communication electives at the 200-level or above .....	12	
<b>Minimum Total</b> .....		<b>18</b>

## Computer Information Systems

Bachelor of Science in Business Administration in Computer Information Systems

**Major:** CIS

**Degree:** BSB

**Unit:** College of Business and Public Administration (BU)

+ See general education requirements in the General Information section of this Catalog.

	Semester Hours	Total
<b>University wide General Education</b>		
English 101 and 102.....	6	
Comm 111, 112, 115, PoIS 111, or WMST 203 .....	3	
Math (See Programmatic Req.) .....	*(3)	
+ Natural Sciences.....	7	
+ Arts & Humanities .....	6	
+ Social & Behavioral Sciences.....	*(9)6	28(34)
* <b>Note:</b> Programmatic Requirements include six hours of the Gen. Ed. (3 hours Math and 3 hours Social & Behavioral Sciences)		
Programmatic Requirements of the CBPA		
Camp 100 Campus Culture .....	1	
Mathematics 107 and 205 <sup>2</sup> *(completes Math Gen Ed) .....	7	
Logic, Phil 311 or 312.....	3	
Ethics, Phil 222, 225, 321 or 323.....	3	
English 303 or 306.....	3	
Accounting 201-202.....	6	
Economics 201-202 *(Completes 3 hours of Soc. & Beh. Sci.).....	6	
Management 201 (Statistics).....	3	
CIS 100 Microcomputer Applications .....	3	35
Business Breadth		
FIN 301 Corporate Finance .....	3	
MKT 301 Principles of Marketing.....	3	
MGMT 301 Management and Org. Behavior .....	3	
CLAW 301 Legal Environment of Business.....	3	
CIS 300 Computer Information Systems .....	3	
MGMT 401 Operations Management .....	3	18

Computer Information Systems Depth

** CIS 201 Introduction to Web Programming .....	6
** CIS 202 Web Programming II .....	3
** CIS 215 Introduction to CIS .....	2
** CIS 211 Operating Systems .....	3
(** To be taken sophomore year)	
CIS 310 Database Design .....	3
CIS 320 Anal. & Design of Comp. Information Systems.....	3
CIS 360 Intro. to Telecommunications.....	3
CIS 410 Mgmt. of Information Systems .....	3
CIS 415 Careers in Information Systems.....	1
CIS 420 CIS Development Project.....	3
CIS Electives (1@ 3 hrs; 2@ 1.5 hrs.) .....	6
CIS Co-op <sup>1</sup> .....	6
Arts & Sciences Electives .....	12

**Minimum Total** .....135<sup>3</sup>

<sup>1</sup> Co-operative Education is a curriculum requirement for six (6) months full time employment for six (6) hours of credit. Pass/Fail credit is given for approved CBPA co-op work experiences (CIS 397 and 398).

<sup>2</sup> Math 205 must be taken as a required math course for all CPBA CIS majors. Its prerequisite MATH 190 may be used as an Arts and Sciences elective.

<sup>3</sup> Six hours of cultural diversity courses are required and may be incorporated within the degree program

\*\*\*All prerequisites must be followed (see undergraduate catalog).

## Computer Information Systems

Bachelor of Science in Business Administration in Computer Information Systems with concentration in Information Security

**Major:** CIS

**Concentration:** IS

**Degree:** BSB

**Unit:** College of Business and Public Administration (BU)

+ See general education requirements in the General Information section of this Catalog.

	Semester Hours	Total
<b>University wide General Education</b>		
English 101 and 102.....	6	
Comm 111, 112, 115, PoIS 111, or WMST 203 .....	3	
Math (See Programmatic Req.) .....	*(3)	
+ Natural Sciences.....	7	
+ Arts & Humanities .....	6	
+ Social & Behavioral Sciences.....	*(9)6	28(34)
* <b>Note:</b> Programmatic Requirements include six hours of the Gen. Ed. (3 hours Math and 3 hours Social & Behavioral Sciences)		
Programmatic Requirements of the CBPA		
Camp 100 Campus Culture .....	1	
Mathematics 107 and 205 <sup>2</sup> *(completes Math Gen Ed) .....	7	
Logic, Phil 311 or 312.....	3	
Ethics, Phil 222, 225, 321 or 323.....	3	
English 303 or 306.....	3	
Accounting 201-202.....	6	
Economics 201-202 *(Completes 3 hours of Soc. & Beh. Sci.).....	6	
Management 201 (Statistics).....	3	
CIS 100 Microcomputer Applications .....	3	35
Business Breadth		
FIN 301 Corporate Finance .....	3	
MKT 301 Principles of Marketing.....	3	
MGMT 301 Management and Org. Behavior .....	3	
CLAW 301 Legal Environment of Business.....	3	
CIS 300 Computer Information Systems .....	3	
MGMT 401 Operations Management .....	3	18

CIS Depth—Information Security Concentration	
** CIS 201 Introduction to Web Programming .....	6
** CIS 202 Web Programming II .....	3
** CIS 215 Introduction to CIS .....	2
** CIS 211 Operating Systems .....	3
(** To be taken sophomore year)	
CIS 310 Database Design .....	3
CIS 320 Anal. & Design of Comp. Information Systems .....	3
CIS 360 Intro. to Telecommunications .....	3
CIS 410 Mgmt. of Information Systems .....	3
CIS 415 Careers in Information Systems .....	1
CIS 420 CIS Development Project .....	3
CIS 480 Intro. to Network Security .....	3
CIS 481 Intro. to Information Security .....	3
CIS 482 Intro. to Cryptography .....	3
CIS 483 Intro. to Database Security .....	3
CIS Co-op <sup>1</sup> .....	3
Arts & Sciences Electives .....	9
<b>Minimum Total</b> .....	<b>54</b>
<b>Minimum Total</b> .....	<b>135<sup>3</sup></b>

<sup>1</sup> Co-operative Education is a curriculum requirement for three (3) months of full-time employment for three (3) hours of credit. Pass/Fail credit is given for approved CBPA co-op work experiences (CIS 397).

<sup>2</sup> Math 205 must be taken as a required math course for all CBPA CIS majors. Its prerequisite MATH 190 may be used as an Arts and Sciences elective.

<sup>3</sup> Six hours of cultural diversity courses are required and may be incorporated within the degree program.

\*\*\* All prerequisites must be followed (see undergraduate catalog).

## Dental Hygiene

Associate of Health Science in Dental Hygiene

**Major:** DH

**Degree:** AHD

**Unit:** Program in Dental Hygiene (DE)

	<b>Semester Hours</b>	<b>Total</b>
*ENGL 101 Introduction to College Writing .....	3	
*CHEM 101 General and Biological Chemistry .....	3	
<b>or</b>		
*CHEM 105 Chemistry for Health Professionals .....	4	
*Math 105 Contemporary Math .....	3	
*COMM 111 Speech Communication .....	3	
*PSYC 201 Introduction to Psychology .....	3	
*SOC 203 Self and Society or SOC 209 .....	3	
*HED 303 Human Nutrition .....	3	
*BIOL 260 Anatomy and Physiology I (Prior to taking Anatomy, Physiology I, must complete BIOL 102, Introduction to Biological Systems and CHEM 101 or 105) .....	3	
*BIOL 261 Anatomy and Physiology II .....	3	
*BIOL 262 Anatomy and Physiology Laboratory .....	1	28
<b>First Year—Fall Semester</b>		
DAUX 100 Radiology .....	2	
DAUX 101 Dental Anatomy .....	2	
DAUX 102 DH-Introduction to Dental Sciences .....	3	
DAUX 103 DH-Preventive Oral Health Services I .....	5	
DAUX 104 Microbiology .....	3	15
<b>First Year—Spring Semester</b>		
DAUX 105 DH-Periodontics .....	2	
DAUX 106 DH-Dental Materials .....	2	
DAUX 107 DH-Preclinical Radiography .....	1	
DAUX 108 DH-Preventive Oral Health Services II .....	5	
DAUX 109 DH-General and Oral Pathology I .....	3	
DAUX 110 DH-Statistics and Research Design .....	1	
DAUX 111 DH-Pain and Anxiety Control .....	2	16
<b>Intersession—Summer</b>		
DAUX 112 Preventive Oral Health Services III .....	1	1

<b>Second Year—Fall Semester</b>	
DAUX 201 DH-General and Oral Pathology II .....	2
DAUX 211 DH-Community Dental Health II .....	2
DAUX 203 DH-Preventive Oral Health Services IV .....	4
DAUX 207 DH-Pharmacology for the Dental Hygienist I .....	2
DAUX 214 DH-Special Needs Patients .....	2
DAUX 216 DH-Advanced Periodontics I .....	1
DAUX 217 DH-Advanced Technology and Patient Care I .....	2
<b>Second Year—Spring Semester</b>	
DAUX 205 DH-Clinical Radiography .....	1
DAUX 206 DH-Advanced Radiology .....	1
DAUX 209 DH-Preventive Oral Health Services V .....	3
DAUX 210 DH-Dental Hygiene Practice .....	2
DAUX 202 DH-Dental Health Education .....	1
DAUX 213 DH-Extramural Education .....	2
DAUX 218 DH-Pharmacology for the Dental Hygienist II .....	2
DAUX 219 DH-Advanced Technology and Patient Care II .....	1
DAUX 220 Advanced Periodontics II .....	1
<b>Minimum Total</b> .....	<b>89</b>

\* These courses are required for the Associate of Health Science in Dental Hygiene and must be completed prior to the Fall Semester of the First Year.

\* These courses are subject to change.

## Early Elementary Education (P-5) Teacher Certification

**Unit:** ED

Teacher certification in Early Elementary Education (grades P-5) is available at both the undergraduate and graduate level. Requirements for the Bachelor of Science degree are listed on page 95.

Students interested in teacher certification at the graduate level through the Master of Arts in Teaching degree first complete a baccalaureate degree in an appropriate academic field before entering the teacher certification program. Students must apply and be accepted into the Master of Arts in Teaching degree program in order to complete teacher certification. Please contact the Education Advising Center for Application deadlines.

The following courses are pre-requisites for application to the Master of Arts in Teaching degree in Early Elementary Education. They may be taken as part of the baccalaureate degree program. In addition to these courses, other application credentials must be submitted. For a complete listing of admission requirements, contact the College of Education and Human Development Advising Center.

### **A Bachelor's degree including:**

Speech Communication (OR Speech Proficiency Exam) .....	3
English 102 .....	3
ART 407 .....	3
MUSE 525 .....	3
HPES 274 .....	3
Math 151 and 152 .....	6
Biology .....	3
Physical Science .....	3
Laboratory from biology or physical science .....	1

For a listing of specific courses, which meet the requirements listed above, contact the College of Education and Human Development Advising Center.

### **Note Regarding Certification in Special Education:**

Certification in special education is offered in Learning and Behavior Disorders (Grades P-12), Moderate and Severe Disabilities (Grades P-12), and Vision Impairment (Grades P-12). Coursework is taken after the completion of the Master of Arts in Teaching degree program. The option of a "stand alone" program for certification in Learning and Behavior Disorders or Moderate and Severe Disabilities is also available for students who hold a bachelor's degree. Specific information regarding teacher certification in special education is available from the College of Education and Human Development Advising Center.

Bachelor of Science in Early Elementary Education  
— Leading to Certification in Early Elementary  
Grades P-5 and Learning and Behavior Disorders  
Grades P-12

**Major:** ERED  
**Degree:** BS  
**Department:** EDTL  
**Unit:** ED

Teacher Education Admission Requirements: A minimum of 39 semester hours; 2.75 or higher overall GPA; 3.0 or higher GPA in Pre-Professional Courses; 21 or higher ACT Composite Score, "C" or better in English 102, "C" or better in Com 111 or its equivalent. Other requirements as outlined in Application Packet.

	Semester Hours	Total
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**General Education Requirements and Academic Orientation:**

A minimum total of 34 semester hours plus the Academic Orientation class. All degrees require the completion of the university-wide General education courses; see page 14 of this catalog for a listing of courses which fulfill this requirement. Some General Education requirements may be met in the requirements for the major or supporting courses, in which case additional electives may be required to complete the minimum hours for the degree .....35

**Pre-Professional Courses:**

EDTP 201, The Teaching Profession (3)  
EDSP 180, Intro. To Special Ed.\* (3)  
EDSP 181, Field Exp. in Spec. Educ\* (3)  
EDTP 305, Dev. of Child. School/Home (3)  
MATH 151, Elem. School Math I (3)  
MATH 152, Elem. School Math 11 (3)  
\*EDSP 180 and 181 must be taken concurrently  
All Pre-Professional courses must be completed with a 3.0 average prior to applying for admission to teacher education. ....18

**Core Professional Courses:**

**Note:** You must be admitted to teacher education before enrolling in core professional courses except for ART 407, HPES 274, and MUSE 525..  
EDSP 260, Classroom and Behavior Mgt. (3)  
ART 407, Art Ed. Elementary & Middle (3)  
EDTP 300, Spec. Ed. Meth/Asses (3)  
EDTP 302, Case Studies I (3)  
EDTP 303, Case Studies II (3)  
EDTP 309, Practicum I (3)  
EDTP 325, Practicum II (3)  
EDTP 329, Practicum III (3)  
EDTP 401, General Methods (3)  
EDSP 470, Student Teaching, LBD (6)  
EDSP 594, Tchg. Physically Handicapped (3)  
HPES 274, Health & Physical Ed. for Elementary School (3)  
MUSE 525, Public School Music (3).....42

**Concentration in Early Elementary P-5/Learning and Behavior Disorders**

**P-12 Courses:**

**Note:** You must be admitted to teacher education before enrolling in concentration courses.  
EDTP 301, Sp. Ed. Meth/Assess-SE (3)  
EDTP 311, Intro Reading/Lang Arts (3)  
EDTP 313, Math Methods (3)  
EDTP 320, Methods in Tchg Rdg & Lang Arts (3)  
EDTP 322, Soc. Studies Methods (3)  
EDTP 324, Science Methods (3)  
EDTP 403, Dev. Cross-Culture Comp. (3)  
EDTP 450, Student Tchg. (6)  
EDTP 504, Tchg. W/ Technology (2)  
EDTP 505, Challenging Advanced Learners (1) .....30

**Minimum Total.....125**

**Exit Requirements:** 125 total semester hours; 2.50 or higher overall GPA; 2.75 or higher GPA in Professional and Concentration courses with no course grade below a C; successful completion of portfolio; successful completion of Praxis examinations.

Bachelor of Science in Early Elementary Education  
Leading to Certification—Birth through Age 5

**Major:** ERED  
**Degree:** BS  
**Department:** EDTL  
**Unit:** ED

This degree/certification program is designed to accommodate those students who have completed an Associate's degree in Early Childhood Education from Jefferson Community College or another community college, which offers an accredited program in the area of early childhood education.

Upon completion of an Associate's degree, students will apply to the University of Louisville for admission to the College of Education and Human Development. Upon completion of all teacher education admission requirements, students will apply for admission to the undergraduate teacher education program. If accepted for admission, students will complete the final two years of professional education coursework in Interdisciplinary Early Childhood Education.

Teacher Education Admission Requirements: A minimum of 45 semester hours; an Associate Degree in Early Childhood Education or its equivalent as determined by the Teaching and Learning Department; 2.75 or higher overall GPA; 3.0 or higher GPA in Pre-Professional Courses; 21 or higher ACT Composite Score, "C" or better in English 102, "C" or better in Com 111 or its equivalent; other requirements as outlined in Application Packet.

	Semester Hours	Total
--	----------------	-------

**General Education Requirements and Academic Orientation:**

A minimum total of 34 semester hours plus the Academic Orientation class. All degrees require the completion of the university-wide General Education courses; see page 14 of this catalog for a listing of courses which fulfill this requirement. If Associate Degree from Ky. Institution is earned after 1994, general education requirements are automatically fulfilled. ....35

**Pre-Professional Courses:**

EDTP 201, The Teaching Profession (3)  
EDSP 180, Intro. To Special Ed.\* (3)  
EDSP 181, Field Exp. in Spec. Educ\* (3)  
EDTP 305, Dev. of Child. School/Home (3)  
\*EDSP 180 and 181 must be taken concurrently  
All Pre-Professional courses must be completed with a 3.0 average prior to applying for admission to teacher education. ....12

**Core Professional Courses:**

**Note:** You must be admitted to teacher education before enrolling in core professional courses.  
EDSP 260, Classroom and Behavior Mgt. (3)  
EDTP 300, Spec. Ed. Meth/Asses (3)  
EDTP 302, Case Studies I (3)  
EDTP 303, Case Studies II (3)  
EDTP 309, Practicum I (3)  
EDTP 325, Practicum II (3)  
EDTP 329, Practicum III (3)  
EDTP 401, General Methods (3)  
EDSP 470, Student Teaching, LBD (6)  
EDSP 594, Tchg. Physically Handicapped (3) .....33

**Concentration in Birth-5:**

**Note:** You must be admitted to teacher education before enrolling in concentration courses except HPES 320, EDEM 436, and EDEM 437.  
MUTH 101, Intro. To Music Therapy (1)  
HPES 320, Growth and Motor Development (3)  
EDTP 432, Literacy and Numeracy in IECE (3)  
EDTP 436, Theories of Play (3)  
EDTP 437, Infant/Toddler Development and Care (3)  
EDTP 433, Current Methods in ECSE (3)  
EDSP 484, Early Family Intervention (3)  
EDTP 435, Administration and Consultation in ECE (3).....22

Electives (approved by advisor)

Early Childhood Education course from Associate's Degree can be used to meet these electives.....23

**Minimum Total.....125**

**Exit Requirements:** 125 total semester hours; 2.50 or higher overall GPA; 2.75 or higher GPA in Professional and Concentration courses with no course grade below a C; a successful completion of portfolio; successful completion of IECE Specialty Examination.

## Economics

Bachelor of Arts in Economics

**Major:** EC

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

(For Bachelor of Science in Economics, see "Business Economics," page 132.)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

Arts & Sciences Programmatic Requirements		
General 101: A&S Orientation .....	1	
Foreign Language .....	12	
(completion of the intermediate level of a single foreign language)		
Electives in Humanities or Natural Sciences .....	9	22
(in addition to courses counted toward General Education; 6 hours must be at 300 level or above)		
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
Department of Economics		
Economics 201-202, 301-302, 475 .....	15	
Economics electives .....	15	30
Supporting Courses		
Mathematics 205 <sup>1</sup> and either Mathematics 107 or 325 .....	7	
Management 201 or Mathematics 109 or 560 .....	3	
Political Science 201 <sup>1</sup> and 202 .....	6	
Electives in Social Sciences Division, other than Economics, with 6 hours at 300 level or above .....	12	28
<b>Minimum Electives</b> .....		7
<b>Minimum Total</b> .....		121

A maximum of 6 hours in cooperative internship (Economics 397, 398, 399) may be applied toward electives in Economics.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

## Economics

Minor in Economics

**Minor:** ECON

**Unit:** College of Business and Public Administration (BU)

	Semester Hours	Total
Economics 201-202 .....	6	
Economics 301-302 .....	6	
Electives in Economics at 300-level or above .....	6	
<b>Minimum Total</b> .....		18

Available to both business majors and non business majors.

An average GPA of 2.5 in the minor courses is required for graduation.

## Electrical Engineering

Bachelor of Science in Electrical Engineering

**Major:** EE

**Degree:** BEE

**Unit:** SS

Students specializing in Electrical and Computer Engineering will complete the program outlined below: Four semesters in the General Engineering Studies Division and a further period of study in the Professional School of Engineering - eight semesters in the Basic Studies Division (for the Bachelor of Science degree) and the graduate/professional year in the Higher Studies Division (for the Master of Engineering degree). This curriculum is designed as an integrated five-year program, with a cooperative education component, culminating in the Master of Engineering degree that is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET)

	Semester Hours	Total
<b>General Engineering Studies Division</b>		
Arts/CD/Hum/SBS Electives <sup>1</sup> .....	6	
CECS 121, 230 .....	4	
CHEM 201 <sup>1</sup> , 207 .....	4	
COMM 111 <sup>1</sup> or 112 <sup>1</sup> .....	3	
EAC 101 <sup>1</sup> , 102, 104, 201, 205 .....	15	
ECE 210, 211, 220, 221, 288 .....	8	
EG 105, 214 .....	2	
ENGL 101 <sup>1</sup> , 102 <sup>1</sup> .....	6	
HIST 101 or 102 <sup>1</sup> .....	3	
PHYS 295 <sup>1</sup> , 296, 298 <sup>1</sup> , 299 .....	10	61
<b>Basic Studies Division</b>		
Arts/CD/Hum/SBS Electives <sup>1</sup> .....	6	
CECS/Mathematics/Science Approved Elective <sup>2</sup> .....	3-6	
CEE 307, 330 .....	4	
ECE 289, 320, 333, 334, 389, 420, 421, 422, 473, 489, 496 and 542 .....	28	
ECE Program Elective (ECE 412 or ECE 5XX) .....	3	
ECE Elective .....	3	
ECE Laboratory Elective .....	1	
ECE Design Elective .....	3	
ECE Design Elective Laboratory .....	1	
ECE Capstone Design (ECE 599) .....	4	
Engineering Science Approved Elective <sup>2</sup> .....	3-6	
IE 360, 570 .....	6	
Non-ECE Elective .....	3	
PHYS 300 .....	3	74
<b>Minimum Total</b> .....		135

The curriculum in this degree program is structured to require that students develop skills and competency in Computer and Information Literacy, as one of the modern engineering tools necessary for professional practice.

<sup>1</sup> General Education Content Area requirement for this program; the University-wide General Education requirements are detailed elsewhere in this publication.

<sup>2</sup> These electives must be chosen from the list of approved courses on file in the department. Students must take 3 hours of Engineering Science Electives and 3 hours of CECS/Mathematics/Science Electives. An additional 3 hours of electives must be taken from either category.

Students in the Electrical and Computer Engineering Department may make use of electives to design a course sequence toward an appropriate career goal. To assist students in the selection of such courses, the Department has designated "tracks" for various specialties within electrical and computer engineering. A full description of these tracks and their recommended courses is available on line at [http://www.ece.louisville.edu/gen\\_tracks.html](http://www.ece.louisville.edu/gen_tracks.html) or from the Electrical and Computer Engineering Department office.



## Electrical Engineering

Master of Engineering in Electrical Engineering

**Major:** EE  
**Degree:** MEN  
**Unit:** SS

	Semester Hours	Total
Thesis/Paper Option		
<b>Higher Studies Division<sup>1</sup></b>		
ECE 500-level Program Electives <sup>2</sup> .....	9	
ECE 600-level Program Electives <sup>2</sup> .....	9	
XXX 500-level Technical Elective <sup>2</sup> .....	3	
XX 600-level Technical Elective <sup>3</sup> .....	3	
ECE 697 or ECE 698.....	8	
<b>Minimum Total.....</b>		<b>32<sup>4</sup></b>

	Semester Hours	Total
Course Only Option		
<b>Higher Studies Division<sup>1</sup></b>		
ECE 500-level Program Electives <sup>2</sup> .....	13	
ECE 600-level Program Electives <sup>2,5</sup> .....	13	
XX 500-level Technical Elective <sup>3</sup> .....	3	
XX 600-level Technical Elective <sup>3</sup> .....	3	
<b>Minimum Total.....</b>		<b>32<sup>4</sup></b>

<sup>1</sup> A total of nine semester hours of design electives is required in the Higher Studies Division. A list of approved Design Electives is available in the Department.

<sup>2</sup> Courses selected to meet the 500 and 600 level Program Electives require the approval of the student's advisor. Note that 600 level courses may be substituted for 500 level courses.

<sup>3</sup> Courses selected to meet the 500 and 600 level Technical Electives require the approval of the student's advisor. Note that 600 level courses may be substituted for 500 level courses.

<sup>4</sup> The five-year total for the M.Eng. degree is 167 semester hours.

<sup>5</sup> Must include a course from a list of approved research/project courses maintained by the Department.

### Master of Science Program in Electrical Engineering

The Department also offers, through the Graduate School, a program leading to the Master of Science degree in Electrical Engineering. This program is available to persons who have an adequate background in mathematics, physics, and the use of computers, but who do not have a baccalaureate degree in electrical engineering. Persons having a baccalaureate degree in electrical engineering from another institution may also find the Master of Science degree more appropriate. Students interested in the Master of Science degree program should consult the Graduate School catalog or the Office of the Director of Graduate Studies of the ECE Department.

#### Ph.D. in Electrical Engineering

The Electrical and Computer Engineering Department offers a Ph.D. degree in Electrical Engineering through the Graduate School. Students interested in the EE Ph.D. program should consult the Graduate School catalog or the Office of the Director of Graduate Studies of the ECE Department.

#### Ph.D. in Computer Science And Engineering

The Electrical and Computer Engineering Department and the Computer Engineering and Computer Science Department jointly offer the Ph.D. degree in Computer Science And Engineering (CSE) through the Graduate School. Students interested in the Ph.D. program should consult the Graduate School catalog or the Coordinator of the CSE Ph.D. program.

## Computer Engineering and Computer Science

Bachelor of Science in Computer Engineering and Computer Science

**Major:** CECS  
**Degree:** BCC  
**Unit:** SS

Students specializing in Computer Engineering and Computer Science (CECS) will complete the program outlined below: four semesters in the General Engineering Studies Division and a further period of study in the Professional School of Engineering - eight semesters in the Basic Studies Division (for the Bachelor of Science degree) and the graduate/ professional year in the Higher Studies Division (for the Master of Engineering degree). The Bachelor of Science degree program is accredited by the Accreditation Board for Engineering and Technology / Computer Accreditation Commission (ABET/CAC). This curriculum is designed as an integrated five-year program, with a cooperative education component, culminating in the Master of Engineering degree that is accredited by the Engineering Accreditation Commission of ABET the Accreditation Board for Engineering and Technology (EAC/ABET).

	Semester Hours	Total
General Engineering Studies Division		
Arts/CD/Hum/SBS Electives <sup>1</sup> .....	6	
CECS 121, 230, 288, 302, 303.....	8	
CEE 205 .....	3	
CHEM 201 <sup>1</sup> , 207.....	4	
COMM 112 <sup>1</sup> or 115 <sup>1</sup> .....	3	
EAC 101 <sup>1</sup> , 102, 104, 201, 205.....	15	
ECE 252 .....	3	
EG 105, 214 .....	2	
ENGL 101 <sup>1</sup> , 102 <sup>1</sup> .....	6	
PHYS 295 <sup>1</sup> , 296, 298 <sup>1</sup> , 299.....	10	60
Basic Studies Division		
Arts/CD/Hum/SBS Electives <sup>1</sup> .....	6	
CECS Electives <sup>2</sup> .....	6	
CECS 288, 289, 306, 310, 311, 312, 335, 389, 412, 420, 440, 489, 504, 506 or 508 or 563, 516, 525, 550 .....	44	
CEE 307, 330 .....	4	
ECE 210, 211 .....	4	
HIST XXX <sup>1</sup> .....	3	
IE 360, 570 .....	6	73
<b>Minimum Total.....</b>		<b>133</b>

The curriculum in this degree program is structured to require that students develop skills and competency in Computer and Information Literacy, as one of the modern engineering tools necessary for professional practice.

<sup>1</sup> General Education Content Area requirement for this program; the University-wide General Education requirements are detailed elsewhere in this publication.

<sup>2</sup> The CECS Elective must be chosen from the following approved list; CECS 522, 530, 542, 545, 546, or departmental consent for additional CECS 5XX courses..

## Computer Engineering and Computer Science

Master of Engineering in Computer Engineering and Computer Science

**Major:** CECS

**Degree:** MEN

**Unit:** SS

On entering the Professional School, the student selects thesis track or non-thesis track. A student in the thesis track chooses an area of concentration for the master's thesis and selects a sequence of program elective courses for the thesis concentration (see list of courses at the end of the program). A student in the non-thesis track chooses a CECS project after completing a sequence of elective courses for the project. The Master of Engineering degree is accredited by EAC/ABET under the criteria for Computer Engineering.

	Semester Hours	Total
Higher Studies Division—Thesis Track		
CECS 510, 530, 535.....	9	
CECS 619, 622, 697 <sup>1</sup> .....	12	
Approved CECS Electives <sup>2</sup> .....	9	
ECE 511.....	1	
<b>Minimum Total</b> .....		<b>31<sup>3</sup></b>

	Semester Hours	Total
Higher Studies Division—Non-thesis Track		
CECS 510, 530, 535.....	9	
CECS 619, 622, 696.....	9	
Approved CECS Electives <sup>2</sup> .....	12	
ECE 511.....	1	
<b>Minimum Total</b> .....		<b>31<sup>3</sup></b>

<sup>1</sup> A full-time student is required to have selected both an approved M.Eng. thesis topic and the director of the thesis committee during the first term of the graduate/professional year. A thesis is part of the requirements for the Master of Engineering degree. Students must complete six credit hours for the M.Eng. Thesis. A non-Thesis option is available.

<sup>2</sup> Required CECS program elective courses may be chosen to provide concentration at the Master of Engineering level in the areas of research focus in the department. Select from 6XX courses such as 608, 609, 611, 616, 627, 628, 629 or 694 in consultant with your CECS faculty advisor.

<sup>3</sup> The five-year total for the M.Eng. degree is 163 semester hours.

### Master of Science Program in Computer Science

The department also offers a graduate program of study in the area of Computer Science leading to a Master of Science degree. This program is available for interested individuals who have an adequate background, but do not necessarily have a baccalaureate degree in engineering. This program is governed by the general regulations of the University of Louisville Graduate School and is accredited by the Southern Association of Colleges and Schools. Interested students should refer to the Graduate School Catalog or to the department office for further information about the Master of Science program.

### Computer Engineering and Computer Science

#### Ph.D in Computer Science and Engineering

The Computer Engineering and Computer Science Department (CECS) offers the Ph.D. degree in Computer Science And Engineering (CSE). The CSE program is offered in collaboration with the Electrical and Computer Engineering Department (ECE) through the Graduate School. Students interested in the Ph.D. program should consult the Graduate School Catalog or the Coordinator of the CSE Ph.D. program.

## Engineering Management

Master of Engineering in Engineering Management

**Major:** EM

**Degree:** MEN

**Unit:** SS

The Department of Industrial Engineering of the Speed Scientific School offers an evening program in Engineering Management that has been developed to meet the needs of practicing engineers who find themselves performing line or staff managerial functions in technological enterprises. The program is designed to build upon the mathematical and analytical expertise gained from prior engineering education as well as upon his or her professional experience gained in the course of active engineering employment.

A requirement for admission to the program is that the applicant possess a baccalaureate degree in engineering from a college or university offering programs which are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology. In addition, it is expected that the student be actively engaged in full-time professional employment during the period of enrollment in the degree program.

A calculus-based course in probability and statistics is a required prerequisite.

The assumption is made that entering students are reasonably competent in a computer programming language such as C++, C, FORTRAN, PASCAL, Visual Basic, etc.

Students may choose either a thesis curriculum or an alternative curriculum that permits students to graduate without preparing a thesis. If the thesis curriculum is selected, the student must submit a written thesis and present it orally before an examining committee. In order to emphasize the strong orientation of the program toward the solution of ongoing practical problems in the management of technological enterprises, every effort is made to select a thesis topic which involves regular employment experience. The ability of the student to perform an in-depth study of such a problem with the guidance and assistance of a faculty advisory committee is judged to be an important part of the program under the thesis option.

In the alternative curriculum for the Master of Engineering degree, the six (6) semester hours of thesis credits are replaced with three (3) semester hours of additional engineering management or industrial engineering approved course electives, plus three (3) semester hours of engineering management project (EM 699) resulting in a project paper. The purpose of the project paper is to provide the student with an opportunity to practically utilize, in a real world setting, an amalgam of subject matter from the engineering management discipline. Each student choosing this option will undertake an independent study and report the findings in a paper. The paper will be evaluated by the student's faculty advisor, who determines a grade for the paper. This grade will be based upon the quality of the written report, after consideration of any clarifications provided by the student in an oral discussion of the paper. The oral discussion is only required to clarify any questions about the paper and is initiated by the faculty advisor.

The requirements for the Master of Engineering degree, with specialization in the field of engineering management, are as follows:

	Semester Hours	Total
EM 515, 550, 570.....	9	
Management science approved electives.....	6	
EM or IE approved electives.....	9	
Thesis Alternative EM 690.....	6	
Non-Thesis Alternative		
EM or IE Elective.....	3	
EM 699.....	3	
<b>Minimum Total</b> .....		<b>30</b>

## English

Bachelor of Arts in English

**Major:** ENGL

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

The program for English majors is designed to lay a foundation for careers in writing, teaching, scholarship, and research, as well as for many other types of position in the business and professional world where skills in communication, creative, critical, or analytical writing, public relations, editorial skills, advertising, or the like are required.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	<b>Semester Hours</b>	<b>Total</b>
<b>General Education</b> .....	34	
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation .....	1	
Foreign Language .....	12	
(completion of the intermediate level of a single foreign language)		
Electives in Social Sciences or Natural Sciences .....	9	22
(in addition to courses counted toward General Education; 6 hours must be at 300 level or above)		
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
Department of English <sup>1</sup>		
English 310 <sup>2</sup> .....	3	
Historical Surveys .....	12	
This requirement is met by taking a course in each of the following historical divisions. At least one of these four courses must be a WR course.		
English 301; or English 313 (WR) or 314 (WR)		
English 302; or English 315 (WR), 316 (WR) or 317 (WR)		
English 311; or English 318 (WR) or 319 (WR)		
English 312; or		
English 320 (WR), 321 (WR), 322 (WR) or 323 (WR)		
English 491 .....	3	
English electives at the 300-level or above .....	6	
English electives at the 400-level or above .....	6	30
Supporting Courses:		
Humanities 591, 592, 593, 594, 595, or 596 .....	3	
Electives in Humanities disciplines, other than English, at 300 level or above .....		
	15	18
<b>Minimum Electives</b> .....		17
<b>Minimum Total</b> .....		<b>121</b>

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree. Courses in freshman composition (English 101, 102, and 105) are not counted in computing the 40 hours for an English major.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Major must not include more than 9 hours of creative or expository writing, nor more than 6 hours of special topics courses.

<sup>2</sup> Completion of English 310 with a grade of C or better is required for admission to the major. Students planning to major in English are strongly encouraged to take English 310 in the first semester after completion of English 102 or 105.

## English

Minor in English

**Minor:** ENGL

**Unit:** College of Arts and Sciences (AS)

	<b>Semester Hours</b>	<b>Total</b>
English 301-302, 311-312 <sup>1</sup> .....	12	
Expository Writing at 300-500 level <sup>2</sup> .....	3	
English electives beyond 102 or 105 .....	3	
<b>Minimum Total</b> .....		<b>18</b>

<sup>1</sup> Students may elect to substitute two WR courses within the English 301-302/311-312 sequence. Consult the description of the English major under the heading "Historical Surveys" for acceptable substitutions.

<sup>2</sup> The English Department recommends but does not require English 310.

## Equine Business

Bachelor of Science in Business Administration in Equine Business

**Major:** EQIN

**Degree:** BSB

**Unit:** College of Business and Public Administration (BU)

The mission of the Equine Business Discipline is to motivate students and professionals in the industry to read, think and question; encourage development of the analytical, entrepreneurial, and management skills needed by the equine industry; inspire enthusiasm, develop leadership; respond to the equine industry's dramatically changing economic environment by undertaking rigorous, meaningful research; disseminate to the industry, through publications, seminars, workshops or state-of-the-art technology, research results and accumulated knowledge, and other business related skills.

+ See general education requirements in the General Information section of this Catalog.

	<b>Semester Hours</b>	<b>Total</b>
<b>University wide General Education</b>		
English 101 and 102 .....	6	
Comm 111, 112, 115, PoIS 111, or WMST 203 .....	3	
Math (See Programmatic Req.) .....	*(3)	
+ Natural Sciences .....	7	
+ Arts & Humanities .....	6	
+ Social & Behavioral Sciences .....	*(9)6	28(34)
<b>* Note:</b> Programmatic Requirements include six hours of the Gen. Ed. (3 hours Math and 3 hours Social & Behavioral Sciences)		

Programmatic Requirements of the CBPA		
Camp 100 Campus Culture .....	1	
Mathematics 107; 111 or 205 *(completes Math Gen Ed) .....	6	1
Logic, Phil 311 or 312 .....	3	
Ethics, Phil 222, 225, 321 or 323 .....	3	
English 306 Business Writing .....	3	
Accounting 201-202 .....	6	
Economics 201-202 *(Completes 3 hours of Soc. & Beh.Sci.) .....	6	
Management 201 (Statistics) .....	3	
CIS 100 Microcomputer Applications .....	3	34
Business Breadth		
FIN 301 Corporate Finance .....	3	
MKT 301 Principles of Marketing .....	3	
MGMT 301 Management and Org. Behavior .....	3	
CLAW 301 Legal Environment of Business .....	3	
CIS 300 Computer Information Systems .....	3	
MGMT 401 Operations Management .....	3	18

Equine Business Depth	
EQIN 101 Equine Management.....	3
EQIN 202 Horse Industry .....	3
EQIN 302 Equine Economics .....	3
EQIN 304 Equine Marketing.....	3
EQIN 313 Equine Commercial Law .....	3
EQIN 401 Equine Taxation.....	2
EQIN 402 Enterprise Analysis and Production Management.....	3
EQIN 403 Equine Financial Management .....	3
EQIN 404 Current Equine Issues .....	3
EQIN 499 Independent Study or specified business elective <sup>2</sup> .....	3
EQIN Electives (EQIN 203, 205, 206, 303, 406, 490) .....	(1-3)
Business Elective (300-400 level) .....	3
A & S Electives.....	12
EQIN 398 Co-op in Equine (must have at least 3.0 GPA; optional course) .....	3

**Minimum Total** .....125<sup>3</sup>

<sup>1</sup> If Math 205 is taken, there will be 7 total hours of math.

<sup>2</sup> Students may select one of the following courses instead of the Independent Study sequence: ECON 401, ECON 402, FIN 401, FIN 402, FIN 414, FIN 441, FIN 450, MGMT 405, MGMT 441, or MKT 441

<sup>3</sup> Six hours of cultural diversity courses are required and may be incorporated with the degree program.

\*\* All prerequisites must be followed (see undergraduate catalog).

## Equine

### Certificate in Equine Business

**Major:** EQIN

**Degree:** CEA

**Unit:** College of Business and Public Administration (BU)

The certificate in Equine Business restricted to individuals who have earned either a Bachelor of Science or Bachelor of Arts degree and want academic training in the field of equine business. The program is designed as an intensive one-year program for full-time students, although part-time students will be accepted.

The curriculum consists of 30-33 hours of Equine Business courses for those individuals who possess a four-year Business degree or an MBA. The curriculum will include a minimum of 51 credit hours for those persons lacking in the Certificate prerequisites.

Admission requirements include submission of an application and official transcripts showing completion of a four-year degree, and an overall 2.5 GPA. Priority application deadlines are June 1 for fall semester. Admission to the Equine Certificate Program is available only in the fall semesters.

	Semester Hours	Total
Certificate Prerequisites		
Economics 201-202.....	6	
Accounting 201-202.....	6	
Mgmt 201 (Statistics).....	3	
CIS 100.....	3	
FIN 301.....	3	
<b>Minimum Total</b> .....		<b>21</b>

Certificate Requirements		
EQIN 101 Equine Management.....	3	
EQIN 202 Horse Industry Overview Information .....	3	
EQIN 302 Equine Economics .....	3	
EQIN 304 Equine Marketing.....	3	
EQIN 313 Equine Commercial Law .....	3	
EQIN 401 Equine Taxation.....	2	
EQIN 402 Equine Enterprise Analysis and Production Management.....	3	
EQIN 403 Equine Financial Management .....	3	
EQIN 404 Current Equine Issues .....	3	
EQIN*499 Independent Study .....	3	
*NOTE: Student may select 6 hours of equine electives instead of Independent Study		
EQIN Electives (EQIN 203, 205,206, 303, 406,4 90).....	(1-3)	
<b>Minimum Total</b> .....		<b>30</b>

## Equine

### Minor in Equine Business

**Minor:** EQIN

**Unit:** College of Business and Public Administration (BU)

The minor shall be open to all majors at the University of Louisville. Completion of business program prerequisites with a 2.5 GPA is required for acceptance into the equine business minor. Upon completion of the admission requirements and a formal application, the student is admitted into the equine business minor based on the student's academic performance. For graduation, in addition to all other degree requirements, a 2.5 GPA is required in the equine courses. Students who are not enrolled in the College of Business and Public Administration, may contact **Terri Burch** at 852-4859 for more information.

	Semester Hours	Total
Program Prerequisites		
Accounting 201 .....	3	
Accounting 202.....	3	
Economics 201 .....	3	
Economics 202.....	3	
Mgmt 201 (Statistics).....	3	
CIS 100.....	3	18
Program Core		
Equine 302 Equine Economics.....	3	
Equine 304 Equine Marketing .....	3	
Equine 403 Equine Financial Management.....	3	
Equine elective (Any equine course except equine 404).....	3	12
<b>Minimum Total</b> .....		<b>30</b>

## Exercise Science

### Minor in Exercise Science

**Minor:** ESSM

**Unit:** College of Education and Human Development

HPES 388, 394, 395, 396, and 486.....15

Select 6 hours from the following:

HPES 303, 386, 387, 389, 418, 597.....6

**Minimum Total**.....**21**

**Note:** A 2.5 gpa is required in the minor. Only one passing grade lower than a C will be accepted in courses for the minor.

## Finance

### Bachelor of Science in Business Administration in Finance

**Major:** FIN

**Degree:** BSB

**Unit:** College of Business and Public Administration (BU)

The objective of the Finance major program is to provide our students with a competitive edge in their professional financial and managerial careers. Our majors are prepared, upon graduation to apply critical thinking and problem solving skills, either individually or in teams, in order to creatively and ethically solve problems in a global marketplace.

+ See general education requirements in the General Information section of this Catalog.

	Semester Hours	Total
<b>University wide General Education</b>		
English 101 and 102.....	6	
Comm 111, 112, 115, PoIS 111, or WMST 203 .....	3	
Math (See Programmatic Req.) .....	*(3)	
+ Natural Sciences.....	7	
+ Arts & Humanities .....	6	
+ Social & Behavioral Sciences.....	*(9)6	28(34)
* <b>Note:</b> Programmatic Requirements include six hours of the Gen. Ed. (3 hours Math and 3 hours Social & Behavioral Sciences)		

Programmatic Requirements of the CBPA	
Camp 100 Campus Culture .....	1
Mathematics 107; 111 or 205 <sup>1</sup> * (completes Math Gen Ed) .....	6 <sup>2</sup>
Logic, Phil 311 or 312.....	3
Ethics, Phil 222, 225, 321 or 323.....	3
English 306 Business Writing .....	3
Accounting 201-202.....	6
Economics 201-202* (Completes 3 hours of Soc. & Beh. Sci) .....	6
Management 201 (Statistics).....	3
CIS 100 Microcomputer Applications .....	3.....34
Business Breadth	
FIN 301 Corporate Finance .....	3
MKT 301 Principles of Marketing.....	3
MGMT 301 Management and Org. Behavior .....	3
CLAW 301 Legal Environment of Business .....	3
CIS 300 Computer Information Systems .....	3
MGMT 401 Operations Management.....	3.....18
Finance Depth	
ACCT 301 Intermediate Accounting.....	3
FIN 304 Financial Statement Analysis.....	3
FIN 370 International Finance .....	3
FIN 401 Investments .....	3
FIN 414 Econ. Anal. & Forecasting .....	3
FIN 433 Financial Markets and Institutions .....	3
FIN 475 Capstone in Finance.....	3
FIN Elective** .....	6
Arts and Sciences Electives .....	18.....45
<b>Minimum Total .....</b>	<b>125<sup>3</sup></b>

<sup>1</sup> For students with strong high school mathematics backgrounds, and for students who intend to pursue graduate work in finance, Mathematics 205 is recommended.

<sup>2</sup> If Math 205 is taken, there will be 7 total hours of math.

<sup>3</sup> Six hours of cultural diversity courses are required and may be incorporated within the degree program.

\*\* Co-operative Education is an elective curriculum option for up to six (6) hours of credit. Pass/Fail credit is given for approved CBPA co-op work experiences. Participation in the CBPA Co-op program is encouraged to strengthen the B.S.B.A. degree for enhanced student marketability.

\*\*\*All prerequisites must be followed (see undergraduate catalog).

## Finance

Minor in Finance

**Minor:** FIN  
**Unit:** College of Business and Public Administration (BU)

The College of Business and Public Administration offers a minor in finance available to College of Business and Public Administration students only. Completion of program prerequisites and good standing in CBPA is required before enrolling in the finance courses. For graduation, in addition to all other degree requirements, a 2.5 GPA is required in the finance courses.

	<b>Semester Hours</b>	<b>Total</b>
Program Prerequisites		
ACCT 201 Principles of Accounting I .....	3	
ACCT 202 Principles of Accounting II .....	3	
ECON 201 Principles of Microeconomics.....	3	
ECON 202 Principles of Macroeconomics .....	3	
CIS 100 Microcomputer Applications .....	3	
MGMT 201 Business Statistics (prereq: Math 107) .....	3.....18	
Program Core		
FIN 301 Corporate Finance .....	3	
FIN 370 international Finance .....	3	
FIN 401 Investments .....	3	
FIN 433 Financial Markets and Institutions .....	3.....12	
<b>Minimum Total .....</b>	<b>30</b>	

## Foreign Language (P-12)

Teacher Certification

**Unit:** College of Education and Human Development

Students interested in teacher certification in French or Spanish first complete a baccalaureate degree in an appropriate academic field before entering the teacher certification program at the graduate level. Students must apply and be accepted into the Master of Arts in Teaching degree program in order to complete teacher certification. Application deadlines are March 1 and October 15.

The following courses are prerequisites for application to the Master of Arts in Teaching degree. They may be taken as part of the baccalaureate degree program. In addition to these courses, other credentials must be submitted. Also, applicants are required to have a 2.75 overall grade point average and meet the minimum score requirements on the Graduate Record Examination. For a complete listing of admission requirements and application deadlines, contact the College of Education and Human Development Advising Center at (502) 852-5597.

**Semester  
Hours**

Speech Communication  
(or Speech Proficiency Exam) .....

Bachelor's degree including teaching field in

One of the following:

Spanish or French.....Minimum of 30 hours

For a listing of specific courses, which meet the requirements listed above, contact the College of Education and Human Development Advising Center.

## Foreign Literature

Minor in Foreign Literature (in English)

**Minor:** FLIT  
**Department:** CML  
**Unit:** College of Arts and Sciences (AS)

**Semester  
Hours      Total**

Eighteen (18) hours chosen from the following courses in a minimum of three of the areas:

- French: Modern Languages 351
- German: Modern Languages 361, 362, 363, 364
- Russian: Modern Languages 353, 354
- Spanish: Modern Languages 355, 356, 357, 358
- Italian: Humanities 581

**Minimum Total.....18**

Modern Languages 551-552, 553, Humanities 361-362, 561-562 may count toward minor when topic focuses on individual foreign literatures.

For other foreign language degree programs, see specific language entry.

## French

Bachelor of Arts in French

**Major:** FREN

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation .....	1	
Foreign Language .....	12	
(completion of the intermediate level of a single foreign language)		
Electives in Social Sciences or Natural Sciences <sup>1</sup> .....	6	19
(in addition to courses counted toward General Education; 3 hours must be at 300 level or above)		
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
<b>Program in French</b>		
French 320, 321, 322 <sup>2</sup> , 331, 332, 455, 523, 524, and 590 .....	27	
French elective at the 300 level or above .....	3	
French elective at the 500 level .....	3	33
<b>Supporting Courses</b>		
Humanities 591, 592, 593, 594, 595 or 596 .....	3	
Electives in Humanities disciplines, other than French, at 300 level or above <sup>3</sup> .....	15	
History 351, 352, 353, 368, 369, 381, 577, 578, 582, <b>or</b> Political Science 340, 436 (select one) .....	3	21
<b>Minimum Electives</b> .....		14
<b>Minimum Total</b> .....		121

No more than 40 hours in French may be applied toward the Bachelor of Arts degree. French 121-221 do not count toward the 40 hour maximum in French.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Note: Additional 3 hours of Arts & Sciences programmatic requirement in Natural Sciences or Social Sciences is met in supporting coursework.

<sup>2</sup> Fulfills WR requirement.

<sup>3</sup> Majors in one foreign language may count courses at the 300 level or above in another foreign language toward this requirement.

## French

Minor in French

**Minor:** FREN

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
French 320, 321, 322 .....	9	
Nine hours of electives in French at the 300 level or above .....	9	
<b>Minimum Total</b> .....		18

## Geography

Bachelor of Science in Applied Geography with concentration in Environmental Analysis

**Major:** GEOG

**Concentration:** ENVA

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation .....	1	
Electives in Natural Sciences or Humanities at the 300 level or above .....	6	7
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
<b>Department of Geography and Geosciences</b>		
Geography 200 <sup>1</sup> , 350, 356, 357, 441 <sup>2</sup> and 442 <sup>2</sup> .....	18	
Geosciences 200 <sup>1</sup> .....	3	
<b>Environmental Foundation:</b>		
Geosciences 363 and 367 .....	6	
Geography 361 .....	3	
<b>Environmental Specialization:</b>		
Geosciences 305, 360, 365, 370, 564, 565 and Geography 355, 390, 401, 510, 555, 561, 590 (select 3) .....	9	
Electives in Geography or Geosciences at the 300 level or above .....	6	45
<b>Supporting Courses</b>		
Electives in Social Sciences, other than Geography, with 6 hours at the 300 level or above .....	12	
Mathematics 109 and 190 <sup>1</sup> .....	7	19
<b>Minimum Electives</b> .....		16
<b>Minimum Total</b> .....		121

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

<sup>2</sup> Fulfills WR requirement.

## Geography

Bachelor of Science in Applied Geography with concentration in GIS

**Major:** GEOG

**Concentration:** GIS

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

Arts & Sciences Programmatic Requirements		
General 101: A&S Orientation .....		1
Electives in Natural Sciences or Humanities		
at the 300 level or above .....	6	7

WR—two approved courses at the 300 level or above  
(may be incorporated into other degree requirements)

Department of Geography and Geosciences		
Geography 200 <sup>1</sup> , 350, 356, 357, 441 <sup>2</sup> and 442 <sup>2</sup> .....		18
Geosciences 200 <sup>1</sup> .....		3

**GIS Foundation:**

GEOG 328 and 361 .....	6	
GEOS 367 .....	3	

**GIS Specialization:**

GEOG 355, 367, 522, 548, 549, 557, 582, 401 (select 3) .....	9	
Electives in Geography or Geosciences		
at the 300 level or above .....	6	45

**Supporting Courses**

Electives in Social Sciences, other than Geography,		
with 6 hours at the 300 level or above .....	12	
Mathematics 109 and 190 <sup>1</sup> .....	7	19

**Minimum Electives** .....

**Minimum Total** .....

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

<sup>2</sup> Fulfills WR requirement.

## Geography

Bachelor of Science in Applied Geography with concentration in Urban and Regional Analysis

**Major:** GEOG

**Concentration:** U&RA

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

## Arts & Sciences Programmatic Requirements

General 101: A&S Orientation .....	1	
Electives in Natural Sciences or Humanities at 300 level or above		
(in addition to courses counted toward General Education) .....	6	7
WR—two approved courses at the 300 level or above		
(may be incorporated into other degree requirements)		

Department of Geography and Geosciences

Geography 200 <sup>1</sup> , 350, 356, 357, 441 <sup>2</sup> and 442 <sup>2</sup> .....	18	
Geosciences 200 <sup>1</sup> .....	3	

**Urban Foundation:**

Geography 327, 328, 530 .....	9	
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**Urban Specialization:**

Geography 329, 331, 378, 390, 401, 528, 531,		
550, 557, 561 (select 3) .....	9	

Electives in Geography or Geosciences		
at 300 level or above .....	6	45

**Supporting Courses**

Electives in Social Sciences, other than Geography,		
of which 6 hours must be at 300 level or above .....	12	
Mathematics 109 and 190 <sup>1</sup> .....	7	19

**Minimum Electives** .....

**Minimum Total** .....

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

<sup>2</sup> Fulfills WR requirement.

## Geography

Bachelor of Science in Applied Geography with concentration in Global and Regional Studies

**Major:** GEOG

**Concentration:** G&RE

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

## Arts & Sciences Programmatic Requirements

General 101: A&S Orientation .....	1	
Electives in Natural Sciences or Humanities at 300 level or above		
(in addition to courses counted toward General Education) .....	6	7
WR—two approved courses at the 300 level or above		
(may be incorporated into other degree requirements)		

Department of Geography and Geosciences

Geography 200 <sup>1</sup> , 350, 356, 357, 441 <sup>2</sup> and 442 <sup>2</sup> .....	18	
Geoscience 200 <sup>1</sup> .....	3	

**Global and Regional Foundation:**

Geography 361 .....	3	
Geoscience 363, 365, or 367 (select one) .....	3	
Geography 327, 328, or 331 (select one) .....	3	

**Global and Regional Specialization**

Geography 307 .....	3	
Geography 305, 316, or 510 (select one) .....	3	
Geography 301, 378, or 550 (select one) .....	3	
Electives in Geography or Geosciences at 300 level or above .....	6	45

Supporting Courses

Electives in Social Sciences, other than Geography,  
of which 6 hours must be at 300 level or above .....12  
Mathematics 109 and 190<sup>1</sup> .....7 .....19  
**Minimum Electives** .....16  
**Minimum Total**.....121

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

<sup>2</sup> Fulfills WR requirement.

Geography

Minor in Environmental Analysis

**Minor:** ENVA  
**Department:** GEOG  
**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Geosciences 200 .....	3	
Geosciences 363, 365, 367 .....	9	
Any three of the following: Geography 350, 355, 357, 361, 390 <sup>1</sup> , 590 <sup>1</sup> , or Geosciences 220, 305, 360, 370, 563, 564, 565 .....	9	
<b>Minimum Total</b> .....		<b>21</b>

<sup>1</sup> Must be an environmental topic.

Geography

Minor in Geography

**Minor:** GEOG  
**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Geography 200.....	3	
Geography 350, 355, 357 (select one) .....	3	
One advanced Social Geography course from 327, 328, 331, 530 ....	3	
One advanced Geosciences course from 363, 365, 367 .....	3	
Electives in Geography or Geosciences .....	9	
<b>Minimum Total</b> .....		<b>21</b>

Geography

Minor in Urban and Regional Analysis

**Minor:** U&RA  
**Department:** GEOG  
**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Geography 200, 327, 328 .....	9	
Any 4 of Geography 331, 378, 390 <sup>1</sup> , 528, 530, 531, 535, 561, 590 <sup>1</sup> .....	12	
<b>Minimum Total</b> .....		<b>21</b>

<sup>1</sup> Must be an urban topic

Health Promotion

Minor in Health Promotion

**Minor:** HLTP  
**Unit:** College of Education and Human Development

	Semester Hours	Total
HPES 184, 310, 383, 384, 385, 531, and 562 or 567.....	21	
<b>Minimum Total</b> .....		<b>21</b>

**Note:** A 2.5 gpa is required in the minor. Only one "D" will be accepted in courses for the minor.

Health and Human Performance

Bachelor of Science in Health and Human Performance

**Major:** HHP  
**Degree:** BS  
**Department:** HPES  
**Unit:** College of Education and Human Development

All students completing the Bachelor of Science degree in Health and Human Performance must complete the Core classes, program requirements, and at least one area of concentration, and appropriate related and supporting courses. A minimum of 123 hours with an overall GPA of 2.25 is required. Only one "D" will be accepted in SPAD or HPES course(s).

	Semester Hours	Total
<b>University-wide General Education requirements</b> .....	34	34
(refer to pp 14)		

<b>Program Requirements</b>		
HPES 181 Academic Orientation .....	1	
HPES 101-167 Physical Education Activity Courses .....	2	
HPES 184 Healthy Lifestyles I.....	3	6

<b>Core Classes</b>		
HPES 180 First Aid and Safety Education .....	3	
HPES 202, Human Anatomy and Physiology .....	3	
HPES 293 Social and Psychological Dimensions of Physical Activity .....	3	
HPES 302 Nutrition in Healthy Living .....	3	
<b>OR</b>		
HPES 303 Human Nutrition.....	3	
HPES 320 Growth and Motor Development Across Lifespan .....	3	
HPES 377 HPES Tests and Measurement .....	3	
HPES 387 Biomechanics .....	3	
HPES 394, Intro to Exercise Science .....	3	
HPES 418 Diverse Populations in Physical Activity and Health.....	3	
HPES 492 Cooperative Internship/Practicum in HPES .....	3	
<b>Minimum Total</b> .....		<b>30</b>

Health and Human Performance

Concentration in Exercise Science

**Concentration:** ESSM

	Semester Hours	Total
Concentration in Exercise Science		
HPES 386, 388, 389, 395, 396, 486.....	18	
Electives (consult advisor).....	35	
<b>Minimum Total</b> .....		<b>123</b>



<b>Health and Human Performance</b>		
Concentration in Health Promotion		
<b>Concentration: HLTP</b>		
	<b>Semester</b>	
	<b>Hours</b>	<b>Total</b>
Concentration in Health Promotion		
HPES 310, 383, 384, 385, 531 and 562 or 567.....	18	
Electives (consult advisor).....	35	
<b>Minimum Total.....</b>		<b>123</b>

<b>Health and Human Performance</b>		
Concentration in Physical Education		
<b>Concentration: SKAC</b>		
	<b>Semester</b>	
	<b>Hours</b>	<b>Total</b>
Concentration in Physical Education		
HPES 270, 310, 326, 410, 411, 412.....	18	
Electives (consult advisor).....	35	
<b>Minimum Total.....</b>		<b>123</b>

**Health and Human Performance**

Bachelor of Science in Health and Human Performance with concentration in Physical Education for Teacher Preparation

**Major:** HHP  
**Degree:** BS  
**Concentration:** SKTP  
**Department:** HPES  
**Unit:** College of Education and Human Development

All students completing the Bachelor of Science degree in Health and Human Performance must complete the Core classes, Program requirements, and at least one area of concentration and appropriate related and supporting courses.

Students interested in teacher certification first complete the Bachelor of Science degree in Health and Human Performance with a concentration in Physical Education OR a selected field with evidence of substantial completion of NASPE guidelines for the teaching specialty, before entering the teacher certification program at the graduate level. Students must apply and be accepted into the Master of Arts in Teaching degree program in order to complete teacher certification. Please contact CEHD for application information.

The following courses are pre-requisites for application to the Master of Arts in Teaching degree in Physical Education (P-12): Speech Communication ("C" or better required or pass the College of Education and Human Development Speech Proficiency Exam), and English 102 ("C" or better in English 102 or score a minimum of 3.5 on the GRE Writing Assessment). In addition to these courses, other application credentials must be submitted. All applicants are required to have a 2.75 overall (or last 60 hours) grade point average and meet the minimum score requirements on the Graduate Record Examination (GRE). For a complete listing of admission requirements and application deadlines, contact the College of Education and Human Development Advising Center.

A minimum of 123 hours with an overall GPA of 2.25 is required. Only one "D" will be accepted in SPAD or HPES course(s).

Successful completion of the required graduate courses will culminate in a P-12 teaching certification in Health and Physical Education and a Master of Arts in Teaching degree (MAT) from the College of Education and Human Development. Passing scores on specific PRAXIS exams are also required for certification.

	<b>Semester</b>	
	<b>Hours</b>	<b>Total</b>
<b>University-wide General Education requirements</b>		
(refer to p. 14).....		34
Program Requirements		
HPES 181, Academic Orientation .....	1	
HPES 101-167 Physical Education Activity Courses .....	2	
HPES 184 Healthy Lifestyles I.....	3	6
<b>Core Courses</b>		
HPES 180 First Aid and Safety .....	3	
HPES 202 Human Anatomy and Physiology.....	3	
HPES 293 Social and Psychological Dimensions		
of Teaching Physical Activity .....	3	
HPES 302 Nutrition in Healthy Living.....	3	
<b>OR</b>		
HPES 303 Human Nutrition.....	3	
HPES 320 Growth and Motor Development Across Lifespan .....	3	
HPES 377 HPES Tests and Measurements .....	3	
HPES 387 Biomechanics .....	3	
HPES 394, Intro to Exercise Science .....	3	
HPES 418 Diverse Populations in Physical Activity and Health.....	3	
HPES 492 Cooperative Internship/Practicum in HPES .....	3	30
<b>Physical Education Concentration</b>		
HPES 270, 310, 326, 410, 411, 412 .....		18
EDTP 501, General Methods .....	3	
ECPY 507 Learning Theory of Human Development.....	3	
Four additional hours of activities (consult advisor).....	4	10
Electives (consult advisor) .....		25
<b>Minimum Total.....</b>		<b>123</b>

**Physical Skill and Knowledge Proficiency**

**NOTE:** Students completing the teaching option are required to demonstrate skill and knowledge proficiency in the following areas: physical fitness, two team sports (soccer, volleyball, or softball), two individual sports (racquetball, golf, or tennis), and one other 100-level activity course. Students passing proficiency tests will get one hour for each test passed.

## Human Health and Wellness

Minor in Human Health and Wellness

**Minor:** HHW  
**Department:** HPES  
**Unit:** College of Education and Human Development

	<b>Semester</b>	
	<b>Hours</b>	<b>Total</b>
<b>Twelve hours from the following:</b>		
HPES 302 or 303, 310, 388 or 486, 501 .....		12
Six hours from the following:		
HPES 388 or 486, 503, 504, 505, 562 or 567 .....		6
<b>Minimum Total.....</b>		<b>18</b>

**Note:** A 2.5 gpa is required in the minor. Only one passing grade lower than a C will be accepted in courses for the minor.

## History

Bachelor of Arts in History with concentration in Humanities

**Major:** HIST

**Concentration:** HUM

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	<b>Semester Hours</b>	<b>Total</b>
<b>General Education</b> .....		34
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation.....	1	
Foreign Language .....	12	
(completion of the intermediate level of a single foreign language)		
<b>Electives in Humanities or Natural Sciences</b>		
(in addition to courses counted toward General Education; 6 hours must be at 300 level or above) .....		
	9	22
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
<b>Department of History</b>		
History 101-102 or 105-106.....	6	
<b>American Area</b>		
History 211-212 .....	6	
History 305, 311, 313-316, 318-324, 326-330, 361, 362, 418, 504-506, 508, 510-512, 514-516, 518, 519, 521, 522, 524, 528, 529, 534, 537, 538, 559, 561, 583, 589, 593, 597-599 (select one) .....	3	
<b>European Area</b>		
Ancient-Medieval Period: History 301, 340, 342, 343, 346, 350-352, 358, 363, 365, 542, 551-555, 596 (select one) .....		
	3	
Modern Period: History 302, 308, 309, 324, 353-355, 359-361, 364, 366-369, 375-378, 380, 384-387, 389, 419, 504, 547, 560, 571, 572, 575, 577, 579, 582, 583, 585, 587, 588, 595 (select one) .....		
	3	
<b>Asia, Africa, Latin American Area</b>		
History 313, 331, 333, 339, 341, 345, 356, 357, 359, 362, 367, 377-379, 390, 392-396, 398, 399, 533, 535, 545, 562, 563, 590-594 (select two) .....	6	
<i>[Courses numbered 310, 410, 498, 499, 501, 502, 503 and 540 may at times also fulfill area requirements; consult History Department.]</i>		
History 304 <sup>1,2</sup> .....	3	
History electives at the 300 level or above .....	3	
History electives at the 500 level .....	6	39
<b>Supporting Courses</b>		
Humanities 591 <sup>1</sup> , 592 <sup>1</sup> , 593 <sup>1</sup> , 594 <sup>1</sup> , 595 <sup>1</sup> or 596 <sup>1</sup> .....	3	
Electives in the Division of Humanities at the 300 level or above .....	15	18
<b>Minimum Electives</b> .....		8
<b>Minimum Total</b> .....		121

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills WR requirement.

<sup>2</sup> Once a student has declared a History Major, the student must enroll in History 304 as 3 of the next 12 history credit hours.

## History

Bachelor of Arts in History with concentration in Social Sciences

**Major:** HIST

**Concentration:** SSC

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	<b>Semester Hours</b>	<b>Total</b>
<b>General Education</b> .....		34
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation .....	1	
Foreign Language .....	12	
(completion of the intermediate level of a single foreign language)		
<b>Electives in Humanities or Natural Sciences</b>		
(in addition to courses counted toward General Education; 6 hours must be at the 300 level or above) .....		
	9	22
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
<b>Department of History</b>		
History 101-102 or 105-106.....	6	
<b>American Area</b>		
History 211-212 .....	6	
History 305, 311, 313-316, 318-324, 326-330, 361, 362, 418, 504-506, 508, 510-512, 514-516, 518, 519, 521, 522, 524, 528, 529, 534, 537, 538, 559, 561, 583, 589, 593, 597-599 (select one) .....	3	
<b>European Area</b>		
Ancient-Medieval Period: History 301, 340, 342, 343, 346, 350-352, 358, 363, 365, 542, 551-555, 596 (select one) .....		
	3	
Modern Period: History 302, 308, 309, 324, 353-355, 359-361, 364, 366-369, 375-378, 380, 384-387, 389, 419, 504, 547, 560, 571, 572, 575, 577, 579, 582, 583, 585, 587, 588, 595 (select one) .....		
	3	
<b>Asia, Africa, Latin American Area</b>		
History 313, 331, 332, 333, 339, 341, 345, 356, 357, 359, 362, 367, 377-379, 390, 392-396, 398, 399, 533, 535, 545, 562, 563, 590-594 (select two) .....	6	
<i>[Courses numbered 310, 410, 498, 499, 501, 502, 503 and 540 may at times also fulfill area requirements; consult History Department.]</i>		
History 304 <sup>2,3</sup> .....	3	
History electives at the 300 level or above .....	3	
History electives at the 500 level .....	6	39
<b>Supporting Courses</b>		
Electives in one department in the Social Sciences Division, other than History <sup>1</sup> .....		
	6	
Electives in a second department in the Social Sciences Division, other than History <sup>1</sup> .....		
	6	
Electives in Social Sciences Division, other than History, at the 300 level or above .....		
	6	18
<b>Minimum Electives</b> .....		8
<b>Minimum Total</b> .....		121

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> In addition to courses counted toward general education

<sup>2</sup> Fulfills WR requirement.

<sup>3</sup> Once a student has declared a History Major, the student must enroll in History 304 as 3 of the next 12 history credit hours.

## History

Minor in History

**Minor:** HIST

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
History 211-212 .....	6	
Electives in European area at 300 level or above .....	3	
Elective in Asian, Africa, and Latin American area at 300 level or above .....	3	
History electives, which may not include 101-102 or 105-106 .....	6	
<b>Minimum Total .....</b>		<b>18</b>

Three (3) hours must be in 500-level course.

## Humanities

Bachelor of Arts in Humanities with concentration in Cultural Studies

**Major:** HUM

**Concentration:** CLTR

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education .....</b>		<b>34</b>
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation .....	1	
Foreign Language .....	12	
(completion of the intermediate level of a single foreign language)		
* Electives in Natural Sciences or Social Sciences (in addition to courses counted toward General Education; 3 hours must be at the 300 level or above) .....	6	19
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
<b>Division of Humanities<sup>1</sup></b>		
Concentration in a period chosen from one of the following:		
Ancient Cultures, Medieval and Renaissance Cultures, Early Modern Cultures, and Modern Cultures <sup>2</sup>		
Courses in the period of concentration at 300 level or above .....	30	
Humanities 300-305 (3 hours in period of concentration) .....	3	
Humanities 591, 592, 593, 594, or 596 <sup>3</sup> .....	3	
(3 hours in period of concentration)		
Humanities 595 <sup>3</sup> .....	3	
Theory requirement: Humanities 509 or 510 (chosen in consultation with the Humanities Advisor) .....	3	42
<b>Supporting Courses</b>		
History Elective at 300 level or above in area of concentration .....	3	
<b>Minimum Electives .....</b>		<b>23</b>
<b>Minimum Total .....</b>		<b>121</b>

At least 50 of the total minimum hours required must be at the 300 level or above.

\* Note: Additional 3 hours of college programmatic requirement is met in supporting courses.

<sup>1</sup> At least 12 hours in the major sequence must be in courses at the 500 level.

<sup>2</sup> With consent of Humanities Advisor, student may substitute up to six hours of relevant Social Sciences Division courses in the period of concentration, at the 300 level or above.

<sup>3</sup> Fulfills WR requirement.

## Humanities

Bachelor of Arts in Humanities with concentration in Disciplinary Studies

**Major:** HUM

**Concentration:** DISP

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education .....</b>		<b>34</b>
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation .....	1	
Foreign Language .....	12	
(completion of the intermediate level of a single foreign language)		
* Electives in Natural Sciences or Social Sciences (in addition to courses counted toward General Education; 3 hours must be at the 300 level or above) .....	6	19
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
<b>Division of Humanities<sup>1</sup></b>		
Concentration in two of the following fields:		
Art History, Literature, Classical and Modern Languages, Music History, Philosophy, Religious Studies and Theatre Arts		
Courses in one area at 300 level or above .....	18	
Courses in second area at 300 level or above .....	18	
Humanities 591, 592, 593, 594, 595, or 596 <sup>2</sup> .....	3	
Theory requirement: Humanities 509 or 510 (chosen in consultation with the Humanities Advisor) .....	3	42
<b>Supporting Courses</b>		
History elective at 300 level or above .....	3	
<b>Minimum Electives .....</b>		<b>23</b>
<b>Minimum Total .....</b>		<b>121</b>

At least 50 of the total minimum hours required must be at the 300 level or above.

\* Note: Additional 3 hours of college programmatic requirement is met in supporting courses.

<sup>1</sup> At least 12 hours in the major sequence must be in courses at the 500 level.

<sup>2</sup> Fulfills WR requirement.

## Humanities

Minor in Humanities

**Minor:** HUM

**Unit:** College of Arts and Sciences (AS)

The student may choose either the Cultural Studies or the Disciplinary Studies option.

	Semester Hours	Total
Cultural Studies Option:		
Concentration in a period chosen from the following: Ancient Cultures, Medieval and Renaissance Cultures, Early Modern Cultures, and Modern Cultures. Courses in the period of concentration at 300 level or above .....15		
Humanities 300-305: 3 hours in period of concentration .....3		
Theory requirement: Humanities 509 or 510 (chosen in consultation with the Humanities Advisor).....3		
<b>Minimum Total</b> .....		<b>21</b>

Disciplinary Studies Option:

Concentration in two of the following fields within the Humanities Division:

Art History, Classical and Modern Languages, Linguistics,  
Literature, Music History, Philosophy, Religious Studies,  
Theatre Arts.

Courses in one discipline at 300 level or above .....9

Courses in second discipline at 300 level or above.....9

Theory requirement: Humanities 509 or 510

(chosen in consultation with the Humanities Advisor).....3

**Minimum Total**.....**21**

## Industrial Engineering

Bachelor of Science in Industrial Engineering

**Major:** IE

**Degree:** BIE

**Unit:** SS

Students specializing in Industrial Engineering will complete the program outlined below: four semesters in the General Engineering Studies Division and a further period of study in the Professional School of Engineering - eight semesters in the Basic Studies Division (for the Bachelor of Science degree) and the graduate/professional year in the Higher Studies Division (for the Master of Engineering degree). This curriculum is designed as an integrated five-year program, with a cooperative education component, culminating in the Master of Engineering degree that is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET).

Appropriate design experiences are presented to students throughout the industrial engineering curriculum, starting with IE 240 fundamentals at the sophomore level, continuing through the IE 499 capstone design course at the senior level, and culminating with the IE 697 master of engineering thesis or IE 699, IE masters project. For example, students at the junior level are given open-ended design projects in facilities location and layout (IE 321) and work methods and measurement (IE 340). At the senior level, design projects are required in quality control (IE 430), production and inventory control (IE 425), engineering design economics (IE 570), and human factors/ergonomics (IE 480), in addition to the capstone design course (IE 499). Students are also exposed to various levels of design experience in their three required co-ops. In the fifth year, students learn human-machine systems design (IE 683), and material flow systems design (IE 650), in addition to that required in completing the master of engineering thesis (IE 697) or the IE masters project (IE 699).

	Semester Hours	Total
General Engineering Studies Division		
Arts/CD/Hum/SBS Electives <sup>1</sup> .....	6	
CHE 253 .....	3	
CHEM 201, 202, 207 .....	7	
COMM 112 <sup>1</sup> .....	3	
EAC 101, 102, 104, 201 .....	13	
EG 105, 214 .....	2	
ENGL 101, 102, 303.....	9	
IE 240, 241, 288, 360, 361 .....	10	
PHYS 295, 296, 298, 299.....	10	63
Basic Studies Division		
Arts/CD/Hum/SBS Electives <sup>1</sup> .....	6	
CEE 205 .....	3	
EAC 205 .....	2	
ECE 252 .....	3	
HIST XXX <sup>1</sup> .....	3	
IE 289, 320, 321, 340, 389, 415, 425, 426, 430, 480, 489, 499, 516, 541, 563, 570, 599.....	45	
IE Design Electives (two courses) .....	6	
ME 251 .....	3	71
<b>Minimum Total</b> .....		<b>134</b>

The curriculum in this degree program is structured to require that students develop skills and competency in Computer and Information Literacy, as one of the modern engineering tools necessary for professional practice.

<sup>1</sup> General Education Content Area requirement for this program; the University-wide General Education requirements are detailed elsewhere in this publication.

## Industrial Engineering

Master of Engineering in Industrial Engineering

**Major:** IE

**Degree:** MEN

**Unit:** SS

Students admitted to the Higher Studies Division will pursue the degree Master of Engineering with specialization in the field of Industrial Engineering. The objective of this program is to build upon the B.S. program requirements to provide qualified students with more educational breadth and depth in the field.

The breadth component is achieved by a fifteen semester hour set of core courses which builds upon the general knowledge gained in the undergraduate program. The depth component is achieved by allowing the student to select nine semester hours of course work in a specialty area of either operations research, human factors engineering, production systems, or manufacturing engineering, with each culminating in a six semester hour thesis or a 3 semester hour project. The course requirements for both the breadth and depth components are specified below.

	Semester Hours	Total
Higher Studies Division		
IE 550, 600, 640, 650, 683 .....	15	
IE Electives.....	9	
<b>Thesis Alternative</b>		
IE 697 .....	6	
<b>Non-Thesis Alternative</b>		
IE Elective.....	3	
IE 699 .....	3	
<b>Minimum Total</b> .....		<b>30</b>

<sup>1</sup> A regularly enrolled full-time student is required to select both an approved M.Eng. thesis topic and the members of the thesis committee during the summer semester of the final Basic Studies semester. IE 599 seminar is offered to aid students in selecting a thesis topic and director.

<sup>2</sup> A regularly enrolled full-time student is required to select both an approved M.Eng. project topic and project advisor during the summer semester of the final Basic Studies semester. IE 599 seminar is offered to aid students in selecting a project topic and advisor.

<sup>3</sup> The five-year total for the M.Eng. degree is 164 semester hours.

## Industrial Engineering

### Master of Science Program in Industrial Engineering

The Department also offers, through the Graduate School, a program leading to the Master of Science degree in Industrial Engineering. This program is available to persons who have an adequate background in mathematics, physics, and the use of computers, but who do not have a baccalaureate degree in engineering, or who have a baccalaureate degree in an engineering discipline other than Industrial Engineering. Persons having a baccalaureate degree in Industrial Engineering from another institution may also find the Master of Science degree more appropriate. Students interested in the Master of Science degree program should consult the Graduate School Catalog or the Chair of the Department of Industrial Engineering.

### Ph.D. in Industrial Engineering

The Departmental also offers, through the Graduate School, the Ph.D. degree in Industrial Engineering. Students interested in the Ph.D. program should consult the Graduate School or the Chair of the Department of Industrial Engineering.

## International Business

### Minor in International Business

**Minor:** IBUS

**Unit:** College of Business and Public Administration (BU)

The College of Business and Public Administration offers a minor in international business available to College of Business and Public Administration students only. If academically planned, the International Business minor course requirements can be incorporated within the undergraduate degree program requirements.

	Semester Hours	Total
Foreign Language Requirement.....	12	
A minimum of 8 hours must be in the same language.		
International Business Courses.....	6	
To be chosen from the international course offerings in the disciplines of Economics, Finance, Management, and Marketing. See approved list in the College of Business and Public Administration section of this Catalog.		
Arts & Sciences International Course.....	3	
See approved list in the College of Business and Public Administration section of this Catalog.		
<b>Minimum Total.....</b>		<b>21</b>

## Italian

### Minor in Italian

**Minor:** ITAL

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Italian 221 .....	4	
Italian 321, 322 .....	6	
Nine hours of electives in Italian at the 300 level or above .....	9	
<b>Minimum Total.....</b>		<b>19</b>

## Latin

### Minor in Latin

**Minor:** LAT

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Latin 202.....	3	
Latin 301-302.....	6	
Nine hours of electives in Latin at the 300 level or above .....	9	
<b>Minimum Total.....</b>		<b>18</b>

## Latin American Studies

### Minor in Latin American Studies

**Minor:** LTS

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Liberal Studies 310.....	3	
Spanish or Portuguese at the 300 level or above .....	3	
Humanities 380, 382; ML 356, 357, 358 (any one) <sup>1</sup> .....	3	
Two courses from any of the following <sup>1</sup> .....	6	
Anthropology 316, 325, 328;		
History 331, 332, 334, 530, 533, 534;		
Political Science 370, 371		
Elective with a substantial Latin American content .....	3	
(to be chosen in consultation with the director)		
Liberal Studies 400 .....	3	
<b>Minimum Total.....</b>		<b>21</b>

<sup>1</sup> Substitutions must be approved by LTS director

## Liberal Studies

### Bachelor of Arts in Liberal Studies

**Major:** LBST

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Liberal Studies is an independent major for students who have a goal that requires an interdisciplinary curriculum. Proposals must be approved by the program director prior to admission to the major. Completion of this degree requires work to be submitted for the program's Learning Outcomes Measurement. For additional information, go to the Liberal Studies website ([www.louisville.edu/a-s/lbst](http://www.louisville.edu/a-s/lbst)) or contact the program advisor at 852-2249.

	Semester Hours	Total
<b>General Education .....</b>		<b>34</b>
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
Arts & Sciences Programmatic Requirements		
General 101: A&S Orientation .....	1	
Foreign Language .....	12	13
(completion of the intermediate level of a single foreign language)		
WR—two approved courses at the 300 level or above .....		
(may be incorporated into other degree requirements)		
Liberal Studies Program		
Liberal Studies 300.....	3	
English 309 <sup>1</sup> .....	3	
Senior Seminar.....	3	9

Fields of Concentration	
First concentration (approved A&S minor) <sup>2</sup>	18-21
Second concentration <sup>3</sup>	12-18
Third concentration	12-18
Other*	9-18 .....42-48
<b>Minimum Electives</b>	17-23
<b>Minimum Total</b>	<b>121</b>

At least 50 of the total minimum hours required must be at the 300 level or above with at least six credit hours in each of two of the three Divisions of the College. Up to 24 credit hours outside the College of Arts and Sciences may be accepted toward the baccalaureate degree.

- <sup>1</sup> Fulfills one WR requirement.
  - <sup>2</sup> Students identifying Middle Grades Education as their goal may substitute a state-approved "Teaching Field" for the department minor. If two teaching fields are selected, a third area of concentration is unnecessary. See program advisor for additional information.
  - <sup>3</sup> The Third Area of Concentration may be a block of courses from one of five University divisions outside the College of Arts and Sciences: College of Business and Public Administration, College of Education and Human Development, School of Music, School of Nursing or Speed Scientific School.
- \* Some majors choose to include additional concentration(s).

## Management

Bachelor of Science in Business Administration in Management

**Major:** MGMT

**Degree:** BSB

**Unit:** College of Business and Public Administration (BU)

+ See general education requirements in the General Information section of this Catalog.

	Semester Hours	Total
<b>University wide General Education</b>		
English 101 and 102.....	6	
Comm 111, 112, 115, PoIS 111, or WMST 203.....	3	
Math (See Programmatic Req.).....	*(3)	
+ Natural Sciences.....	7	
+ Arts & Humanities.....	6	
+ Social & Behavioral Sciences.....	*(9)6	28(34)
* <b>Note:</b> Programmatic Requirements include six hours of the Gen. Ed. (3 hours Math and 3 hours Social & Behavioral Sciences)		
Programmatic Requirements of the CBPA		
Camp 100 Campus Culture.....	1	
Mathematics 107; 111 or 205* (completes Math Gen Ed).....	6 <sup>1</sup>	
Logic, Phil 311 or 312.....	3	
Ethics, Phil 222, 225, 321, or 323.....	3	
English 306 Business Writing.....	3	
Accounting 201-202.....	6	
Economics 201-202 *(Completes 3 hours of Soc. & Beh. Sci.).....	6	
Management 201 (Statistics).....	3	
CIS 100 Microcomputer Applications.....	3	34
Business Breadth		
FIN 301 Corporate Finance.....	3	
MKT 301 Principles of Marketing.....	3	
MGMT 301 Management and Org. Behavior.....	3	
CLAW 301 Legal Environment of Business.....	3	
CIS 300 Computer Information Systems.....	3	
MGMT 401 Operations Management.....	3	18
Management Depth		
MGMT 305 Human Resource Management.....	3	
MGMT 404 Project Management.....	3	
MGMT 441 Business Strategy and Policy.....	3	
MGMT 458 Managerial Decision Making.....	3	
MGMT 460 Images of Leadership (last semester).....	3	
Management Electives.....	3	
Business Electives.....	9	
Arts and Sciences Electives.....	15	42
<b>Minimum Total</b>		<b>122<sup>2</sup></b>

<sup>1</sup> If Math 205 is taken, there will be 7 total hours of Math.

<sup>2</sup> Six hours of cultural diversity courses are required and may be incorporated within the degree program.

\*\* Co-operative Education is an elective curriculum option for up to three (3) hours of credit. Pass/Fail credit is given for approved CBPA co-op work experiences. Participation in the CBPA Co-op program is encouraged to strengthen the B.S.B.A. degree for enhanced student marketability.

\*\*\* All prerequisites must be followed (see undergraduate catalog).

## Marketing

Bachelor of Science in Business Administration in Marketing

**Major:** MKT

**Degree:** BSB

**Unit:** College of Business and Public Administration (BU)

+ See general education requirements in the General Information section of this Catalog.

	Semester Hours	Total
<b>University wide General Education</b>		
English 101 and 102.....	6	
Comm 111, 112, 115, PoIS 111, or WMST 203.....	3	
Math (See Programmatic Req.).....	*(3)	
+ Natural Sciences.....	7	
+ Arts & Humanities.....	6	
+ Social & Behavioral Sciences.....	*(9)6	28(34)
* <b>Note:</b> Programmatic Requirements include six hours of the Gen. Ed. (3 hours Math and 3 hours Social & Behavioral Sciences)		

Programmatic Requirements of the CBPA

Camp 100 Campus Culture.....	1	
Mathematics 107; 111 or 205* (Completes Math Gen Ed).....	6 <sup>1</sup>	
Logic, Phil 311 or 312.....	3	
Ethics, Phil 222, 225, 321, or 323.....	3	
English 306 Business Writing.....	3	
Accounting 201-202.....	6	
Economics 201-202 *(Completes 3 hours of Soc. & Beh. Sci.).....	6	
Management 201 (Statistics).....	3	
CIS 100 Microcomputer Applications.....	3	34
Business Breadth		
FIN 301 Corporate Finance.....	3	
MKT 301 Principles of Marketing.....	3	
MGMT 301 Management and Org. Behavior.....	3	
CLAW 301 Legal Environment of Business.....	3	
CIS 300 Computer Information Systems.....	3	
MGMT 401 Operations Management.....	3	18
Marketing Depth		
MKT 350 Consumer Behavior.....	3	
MKT 360 Professional Relationship Selling.....	3	
MKT 397 MKT 398, and/or MKT 399**.....	3	
MKT 441 Marketing Research.....	3	
MKT 460 Integrative Marketing Strategy.....	3	
Marketing Electives**.....	9	
Business Electives (not Marketing).....	6	
Arts and Sciences Electives.....	12	42
<b>Minimum Total</b>		<b>122<sup>2</sup></b>

<sup>1</sup> If Math 205 is taken, there will be 7 total hours of Math.

<sup>2</sup> Six hours of cultural diversity courses are required and may be incorporated within the degree program.

\*\* The Marketing major requires 3 credits of co-op work experience. These 3 credits may be earned in either MKT 397, 398, and/or 399. Co-op is also an elective curriculum option for up to 3 additional hours of credit beyond the 3 required co-op credits. A maximum of 3 co-op credits may be taken in any one semester. Pass/Fail credit is given for approved CBPA co-op work experiences.

\*\*\* All prerequisites must be followed (see undergraduate catalog).

## Marketing

### Minor in Marketing

**Minor:** Mkt

**Unit:** College of Business and Public Administration (BU)

To pursue a minor in marketing the student must have completed 51 or more semester hours, with a cumulative grade point average of 2.5 or higher. Students interested in pursuing a minor in marketing must complete the business program prerequisites. Students must have a grade point average of 2.5 or higher in the business program prerequisites to be permitted to pursue the marketing program core. Upon completion of the admission requirements and formal application, the student is admitted into the Marketing Minor program based on the student's academic performance.

	Semester Hours	Total
Program Prerequisites		
CIS 100 Microcomputer Applications <sup>1</sup> .....	3	
MGMT 201 Business Statistics or equivalent .....	3	6
Program Core*		
MKT 301 Principles of Marketing.....	3	
Marketing Electives <sup>2</sup> .....	9	12
<b>Minimum Total</b> .....		<b>18</b>

<sup>1</sup> Students have the option to "test out" of CIS 100.

<sup>2</sup> Marketing electives are to be chosen by the individual student, preferably, with the advice and counsel of the student's advisor or the academic unit's advising office. The flexibility inherent in the use of marketing electives would enable the individual student to pursue those courses that would be most consistent with his/her academic interests and career objectives. For example, an engineering student planning to go into industrial sales may want to take Business to Business Marketing, Personal Selling, and Sales Management. On the other hand, a Sports Administration major who is interested in the promotion of sporting events may want to take Consumer Behavior, Marketing Research, and Market Promotion.

\* Marketing Minors are not permitted to take CBPA Co-ops (Mkt 397, 398, or 399) or Mkt 460.

Students must maintain a grade point average of 2.5 or higher in the program core courses to remain in good standing in the Marketing Minor program and to be awarded the minor upon graduation.

## Mathematics

### Bachelor of Arts in Mathematics

**Major:** MATH

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

The Bachelor of Arts in Mathematics is designed for students wishing to obtain a broad yet substantial background in mathematics as well as general education. The Bachelor of Arts covers a wide variety of topics such as algebra, geometry, and probability. This breadth is particularly well suited for students preparing for secondary certification in mathematics.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		<b>34</b>
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		

### Arts & Sciences Programmatic Requirements

General 101: A&S Orientation .....	1
Foreign Language .....	12
(completion of the intermediate level of a single foreign language)	
Electives in Humanities or Social Sciences	
(in addition to courses counted toward General Education;	
6 hours must be at 300 level or above) .....	
9	22
WR—two approved courses at the 300 level or above	
(may be incorporated into other degree requirements)	

### Mathematics Department

Mathematics 2051-206, 301.....	12
Mathematics 311 .....	3
Mathematics 325 .....	3
Mathematics 387 .....	3
Mathematics 501 and 521 .....	6
Mathematics 550 or 551 .....	3
Mathematics 560 or 561 .....	3
Mathematics electives chosen in	
consultation with departmental advisor .....	3
3	36

### Supporting Courses

One of the following sequences: .....	6-10
Physics 295-296 and 298-299 <sup>1</sup>	
Chemistry 201-202 <sup>1</sup> , 207, 208, 209	
Biology 240, 242, 244 <sup>1</sup>	
Elective in second science discipline .....	3
MCS 210.....	3
Electives in Natural Sciences, other than Mathematics .....	2-5
18	
<b>Minimum Electives</b> .....	<b>11</b>
<b>Minimum Total</b> .....	<b>121</b>

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree. Mathematics courses at the 100-level do not count toward hours in the major.

At least 50 of the total minimum hours required must be at the 300 level or above. A minimum of 9 hours in courses numbered 311 or higher must be successfully completed in the Department of Mathematics at the University of Louisville.

<sup>1</sup> Fulfills general education requirement.

## Mathematics

### Bachelor of Science in Mathematics

**Major:** MATH

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

The Bachelor of Science offers a solid, in-depth knowledge of mathematics, combined with a concentration in an area of application. Students preparing to enter a traditional graduate program in mathematics should focus on the concentration in pure mathematics; those preparing for graduate school in a specialized area should use the appropriate concentration. The concentration in actuarial mathematics also includes many of the courses that prepare the student for the Actuarial Examinations.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		<b>34</b>
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		

### Arts & Sciences Programmatic Requirements

General 101: A&S Orientation .....	1
Electives in Humanities or Social Sciences,	
at the 300 level or above (in addition to courses	
counted toward General Education) .....	6
6	7
WR—two approved courses at the 300 level or above	
(may be incorporated into other degree requirements)	

Mathematics Department

**Mathematics Core Requirements**

Mathematics 205 <sup>1</sup> -206, 301 .....	12
Mathematics 311 .....	3
Mathematics 325 .....	3
Mathematics 405 .....	3
Mathematics 501 or 521 .....	3
Mathematics electives chosen in consultation with departmental advisor .....	6
Concentration in one of areas below .....	27
	57

Each concentration has its own set of electives; consult the department advisor for appropriate courses.

**Mathematics Concentrations**

*Actuarial Science*

Mathematics 561.....	3
Mathematics 562 .....	3
Mathematics 570.....	3
Mathematics 572.....	3
Application Area electives .....	15
(No more than 6 hours may be in mathematics)	

*Computational and Applied Mathematics*

Mathematics 387.....	3
Mathematics 407.....	3
Mathematics 535.....	3
Mathematics 536.....	3
Application Area electives.....	15
(No more than 6 hours may be in mathematics)	

*Probability and Statistics*

Mathematics 560.....	3
Mathematics 561.....	3
Mathematics 562.....	3
Mathematics 564.....	3
Application Area electives.....	15
(No more than 6 hours may be in mathematics)	

*Pure Mathematics*

Mathematics 387.....	3
Mathematics 502.....	3
Mathematics 522.....	3
Mathematics 561.....	3
Application Area electives .....	15
(No more than 6 hours may be in mathematics)	

**Supporting Courses**

One of the following sequences: .....	7-10
Physics 298-299 and 295-296 <sup>1</sup>	
Chemistry 201-202 <sup>1</sup> , 207, 208, 209	
Biology 240, 242, 244 <sup>1</sup>	
Elective in second science discipline .....	3
MCS 210.....	3
One computer related course chosen in consultation with departmental advisor .....	3
	16-19

**Minimum Electives** .....4-7

**Minimum Total**.....121

Only 60 hours in the major department may be applied toward the Bachelor of Science degree. Mathematics courses at the 100 level do not count toward hours in the major.

At least 50 of the total minimum hours required must be at the 300 level or above. A minimum of 12 hours in courses numbered 311 or higher must be successfully completed in the Department of Mathematics at the University of Louisville.

<sup>1</sup> Fulfills general education requirement.

Mathematics

Minor in Mathematics

**Minor:** MATH

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Mathematics 205-206 .....	8	
Mathematics 311 .....	3	
Mathematics electives in courses numbered 190 <sup>1</sup> or above .....	10	

**Minimum Total** .....21

For a minor in Mathematics, 6 hours in courses numbered 311 or higher must be successfully completed in the Department of Mathematics at the University of Louisville.

<sup>1</sup> Mathematics 111 and 112 may be substituted for 190, but only 4 hours credit will be applied toward the electives in the minor.

Mathematics

Minor in Actuarial Mathematics

**Minor:** MATA

**Unit:** College of Arts and Sciences (AS)

	Semester Total	Hours
Mathematics 205-206, 301 .....	12	
Mathematics 561 .....	3	
Mathematics 570 .....	3	
Mathematics 562 or 572.....	3	

**Minimum Total**..... 21

Note: For a minor in Mathematics, 6 hours in courses numbered 311 or higher must be successfully completed in the Department of Mathematics at the University of Louisville.

Mechanical Engineering

Bachelor of Science in Mechanical Engineering

**Major:** ME

**Degree:** BMC

**Unit:** SS

Students specializing in Mechanical Engineering will complete the program outlined below: four semesters in the General Engineering Studies Division and a further period of study in the Professional School of Engineering - eight semesters in the Basic Studies Division (for the Bachelor of Science degree) and the graduate/professional year in the Higher Studies Division (for the Master of Engineering degree). This curriculum is designed as an integrated five-year program, with a cooperative education component, culminating in the Master of Engineering degree that is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET).

	Semester Hours	Total
<b>General Engineering Studies Division</b>		
Arts/CD/Hum/SBS Electives <sup>1</sup> .....	3	
CEE 205 .....	3	
CHE 253 .....	3	
CHEM 201 <sup>1</sup> , 202, 207.....	7	
COMM 111 <sup>1</sup> , 112 <sup>1</sup> , or 115 <sup>1</sup> .....	3	
EAC 101 <sup>1</sup> , 102, 104, 201, 205.....	15	
ENGL 101 <sup>1</sup> , 102 <sup>1</sup> .....	6	
PHYS 295 <sup>1</sup> , 298 <sup>1</sup> , 299.....	9	
EG 105, 214 .....	2	
ME 180, 181, 206, 251, 280, 288 .....	12	63



Basic Studies Division	
Arts/CD/Hum/SBS Electives <sup>1</sup> .....	9
CEE 307 .....	2
ECE 252 .....	3
HIST XXX <sup>1</sup> .....	3
IE 360, 570 .....	6
ME 289, 310, 311, 314, 315, 323, 380, 389, 401	
415, 422, 432, 435, 440, 442, 548 or 521, 489, 497 .....	47
<b>Minimum Total</b> .....	<b>133</b>

The curriculum in this degree program is structured to require that students develop skills and competency in Computer and Information Literacy.

<sup>1</sup> General Education Content Area requirement for this program; the University-wide General Education requirements are detailed elsewhere in this publication.

## Mechanical Engineering

Master of Engineering in Mechanical Engineering

**Major:** ME  
**Degree:** MEN  
**Unit:** SS

	Semester Hours	Total
Higher Studies Division		
ECE 535, 536 .....	4	
ME 697 <sup>1,2</sup> .....	6	
ME Program Electives <sup>3, 4, 5</sup> .....	21	
<b>Minimum Total</b> .....		<b>31<sup>6</sup></b>

<sup>1</sup> Upon admission into the Higher Studies Division, M.Eng. candidates are assigned a faculty academic advisor. Thesis students are encouraged to select a thesis topic and advisor during the first term of the graduate/professional year. The thesis advisor then serves as the student's academic advisor. Students must obtain the consent of their thesis advisor prior to enrolling in ME 697.

<sup>2</sup> The faculty of the Mechanical Engineering Department has approved a non-thesis M.Eng. curriculum alternative that permits students to satisfy EAC/ABET accreditation criteria by replacing the six M.Eng. thesis hours (ME 697) with one three-hour 600-level course selected from the list of approved Mechanical Engineering Program Electives, and a three-hour structured research project (ME 645).

<sup>3</sup> At least 12 of the 21 credit hours must be at the 600 level or above.

<sup>4</sup> Courses to meet the program elective requirements are selected with the assistance of the student's advisor.

<sup>5</sup> The Mechanical Engineering Department's B.S. curriculum includes 16.5 EAC/ABET design hours. The 500 and 600 level M.Eng. Program Electives must contain a minimum of 9.5 additional design hours, for a combined program total of 26 semester hours of design.

<sup>6</sup> The five-year total for the M.Eng. degree is 164 semester hours.

Master of Science in Mechanical Engineering

In addition to the M.Eng. program, the Mechanical Engineering Department offers a Master of Science degree in Mechanical Engineering through the Graduate School. This program is appropriate for students not holding a mechanical engineering baccalaureate degree from the University of Louisville. Both thesis and non-thesis options are available. Consult the Graduate School catalog for degree requirements and contact information.

Doctor of Philosophy in Mechanical Engineering

Through the Graduate School, the Mechanical Engineering Department offers a program of study leading to the Doctor of Philosophy degree in Mechanical Engineering. This program provides an opportunity for students to complete advanced course work and conduct independent research in one of a number of specialization areas. Persons interested in the Ph.D. program should consult the Graduate School catalog for requirements and contact information.

## Middle Grades Education

Middle Grades Education (5-9)

### Teacher Certification

**Unit:** College of Education and Human Development

Students interested in teacher certification first complete a baccalaureate degree in an appropriate academic field before entering the teacher certification program at the graduate level. Students must apply and be accepted into the Master of Arts in Teaching degree program in order to complete teacher certification.

The following courses are pre-requisites for application to the Master of Arts in Teaching degree in Middle Grades Education. They may be taken as part of the baccalaureate degree program. In addition to these courses, other application credentials must be submitted. For a complete listing of admission requirements, contact the College of Education and Human Development Advising Center at (502) 852-5597.

	Semester Hours	Total
<b>A Bachelor's degree including:</b>		
Speech Communication		
(OR Speech Proficiency Exam) .....	3	
Middle Grade Teaching Field		
(To be selected from: English, Mathematics,		
Science and Social Studies) .....	24-29	

For a listing of specific courses, which meet the requirements listed above, contact the College of Education and Human Development Advising Center.

### Note Regarding Certification in Special Education:

Certification in special education is offered in Learning and Behavior Disorders (Grades P-12), Moderate and Severe Disabilities (Grades P-12), and Vision Impairment (Grades P-12). Coursework is taken after the completion of the Master of Arts in Teaching degree program. The option of a "stand alone" program for certification in Learning and Behavioral Disorders or Moderate and Severe Disabilities is also available for students who hold a bachelor's degree and a 2.5 or above grade point average. Specific information regarding teacher certification in special education is available from the College of Education and Human Development Advising Center.

## Military Science

Minor in Military Science

**Minor:** MILS

**Unit:** College of Arts and Sciences (AS)

**Track I: (for students with no prior military service)**

	Semester Hours	Total
Military Science 101: Leadership and Adventure I .....	1	
Military Science 102: Leadership and Adventure II .....	1	
Military Science 201: Leadership Skills Development I .....	2	
Military Science 202: Leadership Skills Development II .....	2	
Military Science 301: Leadership and Management I .....	3	
Military Science 302: The Military Team I .....	3	
Military Science 401: Leadership and Management II .....	3	
Military Science 402: Theory and Dynamics of the Military Team II ...	3	
History 418: U.S. Military History or		
History 419: Western Military History .....	3	
Physical Training: Military Science 311, 312, 411, or 412 (any two) ...	2	
<b>Minimum Total</b> .....		<b>23</b>

Track II: (for students with two or more years prior military service or completion of basic training; students in this track are exempt from Military Science 101, 102, 201, and 202.)

	Semester Hours	Total
Military Science 301: Leadership and Management I.....	3	
Military Science 302: The Military Team I.....	3	
Military Science 401: Leadership and Management II.....	3	
Military Science 402: Theory and Dynamics of the Military Team II ...	3	
History 418: U.S. Military History		
or History 419: Western Military History.....	3	
Physical Training:		
Military Science 311, 312, 411, or 412 (any two).....	2	
Three hours to be chosen from the following: .....	3	
History 314: History of American Foreign Relations		
History 359: Arab-Israeli Conflict		
History 362: The U.S. and the Middle East		
History 376: War in the Modern Middle East		
History 386: Modern Germany, 1848-1945		
History 399: The Vietnam War		
History 522: The American Revolution and the Confederation		
History 524: U.S. Civil War and Reconstruction		
History 559: U.S. and Cold War Policy		
History 563: Middle Eastern Wars II		
Political Science 330: International Relations		
Political Science 333: American Foreign Policy		
Political Science 338: National and International Security		
<b>Minimum Total.....</b>		<b>20</b>

## Music

Bachelor of Arts

**Degree:** BA

**Unit:** MU

	Semester Hours	Total
Program Courses		
University-wide General Education requirements <sup>1</sup> .....	34	
(refer to page 14)		
Music Theory 141-242 (four 4-hour courses) .....	16	
Music Literature 361 (four 3-hour courses) .....	12	
Principal Ensemble (minimum of eight 1-hour courses) .....	8	
(Strings take section 01, others solely dependent on the ensemble audition. Music Industry majors take 4 semesters of Principal Ensemble and 4 semesters of Jazz Ensemble; Jazz Studies majors take 6 semesters of Jazz Ensemble and 2 semesters of a different Principal Ensemble.)		
Recital Attendance 097 (six semesters of "S") .....	0	
Applied Instrument or Voice <sup>2</sup> (four 1-hour courses or four 2-hour courses for Jazz Studies majors) .....	4-8	
Piano Class <sup>3,4</sup> (two 1-hour courses).....	2	
Analysis 347 .....	2	
Introduction to Music Study 100 .....	1	
Piano Proficiency Examination .....	0	79-83

<sup>1</sup> It is recommended that students consider PAS 214 African American Music (Arts and Humanities content) and ANTH 205 Music in World Cultures (Social and Behavioral Sciences content: Cultural Diversity competency).

<sup>2</sup> The Piano Proficiency Examination is required for applied piano and organ majors. The exam must be passed before receiving credit for the 4th semester of applied piano or organ study.

<sup>3</sup> If the applied area is piano or organ, Piano Class is replaced with 2 hours of music electives. The Piano Proficiency Examination may be taken in lieu of two semesters of Piano Class.

<sup>4</sup> Students must pass the complete Piano Proficiency Examination before receiving credit for the final semester of the piano requirement. Students must be enrolled continuously in the class until their piano requirement has been completed.

## Emphasis in Music General

**Major:** MUSI

	Semester Hours	Total
Plan Courses		
Music Electives.....	13	13
General Electives .....	34	34
(Non-music electives which include 18 hours in one area of concentration. At least 9 hours in the area of concentration, and a total of 12 of the 34 hours, must be at the 300-level or above. The student may choose to pursue a second major or take a minor in a non-music area.)		
<b>Minimum Total.....</b>		<b>126</b>

## Emphasis in Jazz Studies

**Major:** MUSI

	Semester Hours	Total
Plan Courses		
<b>Jazz Area</b>		
The Evolution of Jazz 355 .....	3	
Jazz Improvisation I 138.....	2	
Jazz Improvisation II 340.....	2	
Jazz Theory 351 .....	2	
Jazz Style & Analysis 539-01 .....	2	
Jazz Piano 130 .....	1	
(Students may substitute 1 hour of elective providing they pass the Jazz Piano Proficiency)		
Jazz Piano Proficiency Exam 198 .....	0	
Jazz Electives.....	4	16
Two 2-hour courses chosen from:		
Jazz Arranging 435, 436, 437		
Jazz Improvisation III 440		
Jazz Methods 338		
Music Industry 535-536		
Computers & Music 553-554		
General Electives .....	31	31
(Non-music electives which include 18 hours in one area of concentration. At least 9 hours in the area of concentration, and a total of 12 of the 31 hours, must be at the 300-level or above. The student may choose to pursue a second major or take a minor in a non-music area.)		
<b>Minimum Total.....</b>		<b>130</b>

## Emphasis in Music Industry

**Major:** MUSI

	Semester Hours	Total
Plan Courses		
<b>Music Industry Area</b>		
Music Industry 535-536 .....	4	
Computers & Music 553-554 .....	4	
Evolution of Jazz 355 or History of Rock & Roll MUH 212 .....	3	
Jazz Electives.....	4	
Two 2-hour courses chosen from:		
Jazz Arranging 435, 436, 437		
Jazz Improvisation 138, 340		
Jazz Theory 351		
Jazz Methods 338		
Jazz Style & Analysis 539-01		
Music Elective.....	1	16
General Electives .....	31	31
(Non-music electives which include 18 hours in one area of concentration. At least 9 hours in the area of concentration, and a total of 12 of the 31 hours, must be at the 300-level or above. The student may choose to pursue a second major or take a minor in a non-music area.)		
<b>Minimum Total.....</b>		<b>126</b>

## Music

Bachelor of Music

**Degree:** BM

**Unit:** MU

	Semester Hours	Total
Program Courses		
University-wide General Education requirements <sup>1</sup> .....	34	
(refer to page 14)		
Music Theory 141-242 (four 4-hour courses) .....	16	
Music Literature 361 (four 3-hour courses) .....	12	
Principal Ensemble (seven or eight 1-hour courses) .....	7-8	
(Strings take section 01, others solely dependent on the ensemble audition. Students in music education Pre-Certification take eight 1-hour courses; all other music education students need only seven 1-hour courses; students in all other majors need eight.		
Music Education students who are woodwind, brass, or percussion principals are required to fulfill two years of ensemble performance in the marching band. Entering students will be expected to fulfill this requirement during the freshman and sophomore years. Transfer students will be required to fulfill a minimum of one year. A second year may be required based upon evaluation of the transcript.)		
Recital Attendance 097 (six semesters of "S") .....	0	
Introduction to Conducting 359 .....	2	
Analysis 347 .....	2	
Applied Lessons .....	8	
Introduction to Music Study 100 .....	1	
Piano Proficiency Examination .....	0	82-83

<sup>1</sup> It is recommended that students consider PAS 214 African American Music (Arts and Humanities content) and ANTH 205 Music in World Cultures (Social and Behavioral Sciences content: Cultural Diversity competency). In addition, Music Therapy majors should consider COMM 115 Interpersonal Skills (Oral Communication content) and PSYC 201 Introduction to Psychology (Social and Behavioral Sciences content).

### Emphasis in Composition

**Major:** COMP

	Semester Hours	Total
Plan Courses		
<b>Major Area</b>		
Composition 243-444 (six 2-hour courses) .....	12	
Composition Seminar (six 1/2-hour courses) .....	3	
Orchestration 345-346 .....	4	
Analysis 348 .....	2	
Choral Arranging 445 .....	2	
Chromatic Harmony & Analysis/Analysis of Twentieth-Century Music 547-548 .....	4	
Counterpoint 549-550 .....	4	
Senior Recital <sup>1</sup> .....	0	31
Supportive Area		
Conducting II 360 .....	2	
Applied Lessons (four additional 2-hour courses) .....	8	
Methods Classes (three 1-hour courses) .....	3	
Piano Class <sup>2,3</sup> (four 1-hour courses) .....	4	
French or German 121 <sup>4</sup> .....	4	21
Minimum Total .....		135

<sup>1</sup> Students must present a recital of original works.

<sup>2</sup> If applied principal is piano, Piano Class is replaced with 4 hours of electives. For students with a piano background, two semesters of MUS 121-122 (Secondary Piano) may be substituted.

<sup>3</sup> Students must pass the Piano Proficiency Examination before receiving credit for the 4th semester of the piano requirement. Students must be enrolled continuously in the class until their piano requirement has been completed. Students who pass the Piano Proficiency Examination before the 4th semester of Piano Class are encouraged to continue keyboard study for a total of four semesters.

<sup>4</sup> Composition majors are strongly advised to take a second semester of language study.

### Admission to Senior College

No B.M. degree student may enroll for 400-level music courses until all of the following requirements have been satisfied:

1. Completion of at least 48 credits toward the degree.
2. MUS 232 Piano Class (for non-keyboard principals) or Piano Proficiency Examination (for keyboard principals).
3. MUS 212. The examination for MUS 212 will be graded by an expanded jury. The student must prepare at least 11 minutes of music. Keyboard principals must pass the Piano Proficiency Examination before taking the examination for MUS 212.
4. MUS 242 Theory IV.
5. MUS 361-01 and -02 Music Literature.
6. MUS 097 Recital Attendance, four semesters with grade of "S".
7. ENGL 101 or ENGL 105 and at least three additional general education courses.
8. MUS 244. The examination for MUS 244 will require submission of a portfolio of compositions to the faculty of the theory/composition department.
9. GPA of 2.5.

### Emphasis in Music Education (Pre-Certification - Instrumental)

**Major:** MUED

	Semester Hours	Total
Plan Courses		
<b>Major Area</b>		
Brass Methods and Techniques 135, 136 <sup>1</sup> .....	2	
Woodwind Methods and Techniques 235, 236 <sup>1</sup> .....	2	
String Methods and Techniques 335, 336 <sup>1</sup> .....	2	
Elementary School Music Methods 228 .....	2	
Middle and Junior High School Music Methods 328 .....	2	
Voice Class 227 .....	1	
Marching Band Techniques 337 .....	2	
Introduction to Music Education 116 .....	1	
Introduction to Jazz Improvisation 118 .....	1	
Jazz Methods 338 .....	2	
Learning Theory and Human Growth and Development ECPY 507 .....	3	
Exploring Teaching in the Sociopolitical Contexts of P-12 Schools EDTP 502 .....	3	23
<b>Supportive Area</b>		
Applied Lessons (three additional 2-hour courses) .....	6	
Piano Class 131-232 <sup>2</sup> (four 1-hour courses) .....	4	
Orchestration 345 .....	2	
Orchestration 346 or Band Scoring 446 .....	2	
Conducting II 360-02 .....	2	
Minor Ensemble 119 (four 1/2-hour courses) .....	2	
Music Electives .....	3	
Health Education 184 .....	3	
Geography 307 .....	3	27
<b>Minimum Total</b> .....		<b>133</b>

<sup>1</sup> Brass students shall substitute MUS 137 for MUS 136. Woodwind students shall substitute MUS 137 for MUS 236. String students will complete only one semester each of brass and woodwind methods along with one semester of percussion methods and two semesters of string methods. They will also be required to take MUS 339 String Pedagogy and Educational String Literature.

<sup>2</sup> Students must pass the Piano Proficiency Examination before receiving credit for the 4th semester of the piano requirement. Students must be enrolled continuously in the class until their piano requirement has been completed. Students who pass the Piano Proficiency Examination before the 4th semester of Piano Class are encouraged to continue keyboard study for a total of four semesters.

### Admission to Senior College

No B.M. degree student may enroll for 400-level music courses until all of the following requirements have been satisfied:

1. Completion of at least 48 credits toward the degree.
2. MUS 232 Piano Class.
3. MUS 212. The examination for MUS 212 will be graded by an expanded jury. The student must prepare at least 11 minutes of music.
4. MUS 242 Theory IV.
5. MUS 361-01 and -02 Music Literature.
6. MUS 097 Recital Attendance, four semesters with grade of "S".
7. ENGL 101 or ENGL 105 and at least three additional general education courses.
8. GPA of 2.5.

Emphasis in Music Education  
(Pre-Certification - Keyboard)

Major: MUED

	Semester Hours	Total
Plan Courses		
<b>Major Area</b>		
Brass Methods and Techniques 135 .....	1	
Woodwind Methods and Techniques 235 .....	1	
String Methods and Techniques 335 .....	1	
Elementary School Music Methods 228 .....	2	
Middle and Junior High School Music Methods 328.....	2	
Choral Techniques 428 .....	2	
Choral Arranging 445 .....	2	
Introduction to Music Education 116 .....	1	
Introduction to Jazz Improvisation 118 .....	1	
Jazz Methods 338 .....	2	
Learning Theory and Human Growth and Development ECPY 507 ...3		
Exploring Teaching in the Sociopolitical Contexts of P-12 Schools EDTP 502.....	3	21
<b>Supportive Area</b>		
Applied Lessons (three additional 2-hour courses) .....	6	
Applied Voice 133-334 (six 1-hour courses).....	6	
Diction 123-124 .....	2	
Seminar in Voice pedagogy 571.....	2	
Conducting II 360-01 .....	2	
Music Electives.....	3	
Health Education 184 .....	3	
Geography 307.....	3	27
<b>Minimum Total.....</b>		<b>131</b>

Admission to Senior College

No B.M. degree student may enroll for 400-level music courses until all of the following requirements have been satisfied:

1. Completion of at least 48 credits toward the degree.
2. Piano Proficiency Examination.
3. MUS 212. The examination for MUS 212 will be graded by an expanded jury. The student must prepare at least 11 minutes of music. Keyboard principals must pass the Piano Proficiency Examination before taking the examination for MUS 212.
4. MUS 242 Theory IV.
5. MUS 361-01 and -02 Music Literature.
6. MUS 097 Recital Attendance, four semesters with grade of "S"
7. ENGL 101 or ENGL 105 and at least three additional general education courses.
8. GPA of 2.5.

Emphasis in Music Education  
(Pre-Certification - Vocal)

Major: MUED

	Semester Hours	Total
Plan Courses		
<b>Major Area</b>		
Brass Methods and Techniques 135 .....	1	
Woodwind Methods and Techniques 235 .....	1	
String Methods and Techniques 335 .....	1	
Elementary School Music Methods 228 .....	2	
Middle and Junior High School Music Methods 328.....	2	
Choral Techniques 428 .....	2	
Choral Arranging 445 .....	2	
Introduction to Music Education 116 .....	1	
Introduction to Jazz Improvisation 118 .....	1	
Jazz Methods 338 .....	2	
Learning Theory and Human Growth and Development ECPY 507 ...3		
Exploring Teaching in the Sociopolitical Contexts of P-12 Schools EDTP 502.....	3	21

**Supportive Area**

Applied Lessons (three additional 2-hour courses) .....	6
Seminar in Voice Pedagogy 571 .....	2
Piano Class 131-332 <sup>1</sup> (six 1-hour courses).....	6
Diction 123-124 .....	2
Conducting II 360-01 .....	2
Music Electives.....	3
Health Education 184 .....	3
Geography 307.....	3
<b>Minimum Total.....</b>	<b>27</b>
<b>Minimum Total.....</b>	<b>131</b>

<sup>1</sup> Students must pass the Piano Proficiency Examination before receiving credit for the 4th semester of the piano requirement. Students must be enrolled continuously in the class until their piano requirement has been completed. Students who pass the Piano Proficiency Examination before the 4th semester of Piano Class are encouraged to continue keyboard study for a total of four semesters.

Admission to Senior College

No B.M. degree student may enroll for 400-level music courses until all of the following requirements have been satisfied:

1. Completion of at least 48 credits toward the degree.
2. MUS 232 Piano Class.
3. MUS 212. The examination for MUS 212 will be graded by an expanded jury. The student must prepare at least 11 minutes of music.
4. MUS 242 Theory IV.
5. MUS 361-01 and -02 Music Literature.
6. MUS 097 Recital Attendance, four semesters with grade of "S"
7. ENGL 101 or ENGL 105 and at least three additional general education courses.
8. GPA of 2.5.

Music Education (P-12)

**Teacher Certification**

Unit: ED

Students interested in pursuing P-12 Music Teacher Certification may do so through an undergraduate degree program or a graduate degree program:

1. A Bachelor of Music Education degree with Vocal Emphasis or a Bachelor of Music Education degree with Instrumental Emphasis through the School of Music.
2. A Master of Arts in Teaching degree through the College of Education and Human Development. See the prerequisites below:  
Completion of a Bachelor's Degree  
Speech Communication course  
Teaching major in Music  
Learning Theory and Human Growth and Development ECPY 507  
Exploring Teaching in the Sociopolitical Contexts of P-12 Schools EDTP 502

Students must apply and be accepted into the teacher education program.

Contact the College of Education and Human Development Advising Center for specific admission requirements, including an application packet.

Emphasis in Music Education  
(Instrumental)

Major: MUED

	Semester Hours	Total
Plan Courses		
<b>Major Area</b>		
Brass Methods and Techniques 135 <sup>4</sup> , 136 <sup>2,4</sup> .....	2	
Woodwind Methods and Techniques 235 <sup>4</sup> , 236 <sup>2,4</sup> .....	2	
String Methods and Techniques 335 <sup>4</sup> , 336 <sup>2,4</sup> .....	2	
Elementary School Music Methods 228 <sup>3,4</sup> .....	2	
Middle and Junior High School Music Methods 328.....	2	
Voice Class 227 <sup>4</sup> .....	1	
or Marching Band Techniques 337 <sup>4</sup> .....	2	
Introduction to Music Education 116 .....	1	
Introduction to Jazz Improvisation 118 .....	1	
Jazz Methods 338 .....	2	
Learning Theory and Human Growth and Development ECPY 507 <sup>4</sup> .....	3	
Exploring Teaching in the Sociopolitical Contexts of P-12 Schools EDTP 502 <sup>4</sup> .....	3	
Human Interaction Prof Growth MUED 533 <sup>5</sup> .....	2	
Sp Method-Instrumental Music MUED 556 <sup>5,6</sup> .....	3	
Student Teaching-Elementary MUED 520 <sup>5</sup> .....	4	
Student Teaching-Secondary School MUED 534 <sup>5</sup> .....	4	34-35

**Supportive Area**

Applied Lessons (three additional 2-hour courses) .....	6
Piano Class 131-232 <sup>1,4</sup> (four 1-hour courses) .....	4
Orchestration 345 .....	2
Orchestration 346 or Band Scoring 446 .....	2
Conducting II 360-02 <sup>4</sup> .....	2
Minor Ensemble 119 (four 1/2-hour courses) .....	2
Health Education 184 .....	3
Geography 307 .....	3
<b>Minimum Total</b> .....	<b>24</b>

**Minimum Total** .....140-141

- <sup>1</sup> Students must pass the Piano Proficiency Examination before receiving credit for the 4th semester of the piano requirement. Students must be enrolled continuously in the class until their piano requirement has been completed. Students who pass the Piano Proficiency Examination before the 4th semester of Piano Class are encouraged to continue keyboard study for a total of four semesters.
- <sup>2</sup> Brass students shall substitute MUS 137 for MUS 136. Woodwind students shall substitute MUS 137 for MUS 236. String students will complete only one semester each of brass and woodwind methods along with one semester of percussion methods and two semesters of string methods. They will also be required to take MUS 339 String Pedagogy and Educational String Literature.
- <sup>3</sup> This course is necessary for admittance to teacher education. Upon enrollment in MUS 228, the student shall secure an application for admission to teacher education from the College of Education and Human Development Advising Center.
- <sup>4</sup> These courses are prerequisites for student teaching.
- <sup>5</sup> Admission to Teacher Education is required before enrolling in these courses.
- <sup>6</sup> MUED 556 must be taken prior to MUED 520 or MUED 534.

**Admission to Senior College**

No B.M. degree student may enroll for 400-level music courses until all of the following requirements have been satisfied:

1. Completion of at least 48 credits toward the degree.
2. MUS 232 Piano Class.
3. MUS 212. The examination for MUS 212 will be graded by an expanded jury. The student must prepare at least 11 minutes of music.
4. MUS 242 Theory IV.
5. MUS 361-01 and -02 Music Literature.
6. MUS 097 Recital Attendance, four semesters with grade of "S".
7. ENGL 101 or ENGL 105 and at least three additional general education courses.
8. GPA of 2.5.

**Emphasis in Music Education (Vocal)**

**Major:** MUED

**Plan Courses**

**Major Area**

Brass Methods and Techniques 135 <sup>3</sup> .....	1	
Woodwind Methods and Techniques 235 <sup>3</sup> .....	1	
Percussion Methods and Techniques 137 <sup>3</sup> .....		
or String Methods and Techniques 335 <sup>3</sup> .....	1	
Elementary School Music Methods 228 <sup>2,3</sup> .....	2	
Middle and Junior High School Music Methods 328 <sup>3</sup> .....	2	
Introduction to Music Education 116 .....	1	
Introduction to Jazz Improvisation 118 .....	1	
Jazz Methods 338 .....	2	
Choral Techniques 428 .....	2	
Learning Theory and Human Growth and Development ECPY 507 <sup>3</sup> .....	3	
Exploring Teaching in the Sociopolitical Contexts of P-12 Schools EDTP 502 <sup>3</sup> .....	3	
Human Interaction Prof Growth MUED 533 <sup>4</sup> .....	2	
Sp Method-Vocal Music MUED 556 <sup>3,4,5</sup> .....	3	
Student Teaching-Elementary School MUED 520 <sup>4</sup> .....	4	
Student Teaching-Secondary School MUED 534 <sup>4</sup> .....	4	32

**Semester Hours Total**

**Supportive Area**

Applied Lessons (three additional 2-hour courses) .....	6
Seminar in Voice Pedagogy 571 .....	2
Piano Class 131-332 <sup>1,3</sup> or Voice 133-334 <sup>3</sup> (six 1-hour courses) .....	6
Diction 123-124 .....	2
Conducting II 360-01 <sup>3</sup> .....	2
Health Education 184 .....	3
Geography 307 .....	3
<b>Minimum Total</b> .....	<b>24</b>

**Minimum Total** .....138

- <sup>1</sup> Students must pass the Piano Proficiency Examination before receiving credit for the 4th semester of the piano requirement. Students must be enrolled continuously in the class until their piano requirement has been completed. Students who pass the Piano Proficiency Examination before the 4th semester of Piano Class are encouraged to continue keyboard study for a total of four semesters.
- <sup>2</sup> This course is necessary for admittance to teacher education. Upon enrollment in MUS 228, the student shall secure an application for admission to teacher education from the College of Education and Human Development Advising Center.
- <sup>3</sup> These courses are prerequisites for student teaching.
- <sup>4</sup> Admission to Teacher Education is required before enrolling in these courses.
- <sup>5</sup> MUED 556 must be taken prior to MUED 520 or MUED 534.

**Admission to Senior College**

No B.M. degree student may enroll for 400-level music courses until all of the following requirements have been satisfied:

1. Completion of at least 48 credits toward the degree.
2. MUS 232 Piano Class.
3. MUS 212. The examination for MUS 212 will be graded by an expanded jury. The student must prepare at least 11 minutes of music. Keyboard principals must pass the Piano Proficiency Examination before taking the examination for MUS 212.
4. MUS 242 Theory IV.
5. MUS 361-01 and -02 Music Literature.
6. MUS 097 Recital Attendance, four semesters with grade of "S"
7. ENGL 101 or ENGL 105 and at least three additional general education courses.
8. GPA of 2.5.

**Emphasis in Music History**

**Major:** MUHM

**Plan Courses**

**Major Area**

Music History 370 (three 3-hour courses) .....	9	
Analysis 348 .....	2	
Senior Research Paper/Project 499 .....	0	11

**Supportive Area**

Advanced Theory .....	8
Two 4-hour sequences chosen from:	
Composition 143-144	
Orchestration 345-346	
Chromatic Harmony and Analysis/Analysis of Twentieth-Century Music 547-548	
Counterpoint 549-550	
Applied Lessons <sup>1</sup> (four additional 2-hour courses) .....	8
Piano Class <sup>2,3</sup> (four 1-hour classes) .....	4
German or French 121, 122, 221 .....	12
Music Electives .....	3
General Electives .....	5
<b>Minimum Total</b> .....	<b>35</b>

**Minimum Total** .....134

- <sup>1</sup> If the applied principal is voice, 2 hours of Diction (MUS 123-124) are required in addition to the 16 hours of voice.
- <sup>2</sup> If the applied principal is piano, Piano Class is replaced with 4 hours of music electives. For students with a piano background, four semesters of Secondary Piano (MUS 121-222) may be substituted for Piano Class.
- <sup>3</sup> Students must pass the Piano Proficiency Examination before receiving credit for the 4th semester of the piano requirement. Students must be enrolled continuously in the class until their piano requirement has been completed. Students who pass the Piano Proficiency Examination before the 4th semester of Piano Class are encouraged to continue keyboard study for a total of four semesters.

Admission to Senior College

No B.M. degree student may enroll for 400-level music courses until all of the following Requirements have been satisfied:

1. Completion of at least 48 credits toward the degree.
2. MUS 232 Piano Class.
3. MUS 212. The examination for MUS 212 will be graded by an expanded jury. The student must prepare at least 11 minutes of music. Keyboard principals must pass the Piano Proficiency Examination before taking the examination for MUS 212.
4. MUS 242 Theory IV.
5. MUS 361-01 and -02 Music Literature.
6. MUS 097 Recital Attendance, four semesters with grade of "S".
7. ENGL 101 or ENGL 105 and at least three additional general education courses.
8. GPA of 2.5.

Minor in Music History

Minor: MUHA

Unit: MU

	Semester Hours	Total
Music History 301 or Music 141 <sup>1</sup> .....	3-4	
Select 18 hours from the following:		
Music History 212, 303-311, 313;		
Humanities 365;		
Sociology 344.....	18	
<b>Minimum Total</b> .....		<b>21-22</b>

In addition, participation in the Early Music Ensemble, the University Chorus, Band or Orchestra for two semesters without credit is strongly advised though not required.

<sup>1</sup> A student may be exempted from Music 141 through a School of Music departmental examination and, if so, elect to take Music 142 or 18 hours from 300/400 level courses listed in the minor.

Emphasis in Instrumental Performance

Major: MUSP

	Semester Hours	Total
Plan Courses		
<b>Major Area</b>		
Applied Lessons <sup>2</sup> (six additional 4-hour courses).....	24	
Senior Recital <sup>1</sup> .....	0	
Minor Ensembles (eight 1/2-hour courses).....	4	28
<b>Supportive Area</b>		
Analysis 348.....	2	
Advanced Theory.....	4	
One 4-hour course sequence chosen from:		
Composition 143-144		
Orchestration 345-346		
Chromatic Harmony and Analysis/Analysis of Twentieth-Century Music 547-548		
Counterpoint 549-550		
Piano Class <sup>3,4</sup> (four 1-hour classes).....	4	
Conducting II 360.....	2	
Music Electives.....	7	19
General Electives.....	4	4
<b>Minimum Total</b> .....		<b>134</b>

<sup>1</sup> Senior recital for all performance degrees is a public recital.

<sup>2</sup> Woodwind option: Students with a major in flute, oboe, clarinet, bassoon, or saxophone may devote as many as 14 of the 32 hours required in the major instrument to the study of other woodwind instruments. After completing one semester of study in the major instrument with a grade of "A" or "B", the student may elect the above option with the approval of the woodwind faculty. Continued enrollment in the option will be dependent upon satisfactory progress in the major instrument studied. An outline of the applied music study must be approved by the teacher of the major instrument. One-half of the senior recital may consist of solo or ensemble performance of one or more secondary instruments.

<sup>3</sup> For students with a piano background, four semesters of Secondary Piano (MUS 121-222) may be substituted.

<sup>4</sup> Students must pass the Piano Proficiency Examination before receiving credit for the 4th semester of the piano requirement. Students must be enrolled continuously in the class until their piano requirement has been completed. Students who pass the Piano Proficiency Examination before the 4th semester of Piano Class are encouraged to continue keyboard study for a total of four semesters.

Admission to Senior College

No B.M. degree student may enroll for 400-level music courses until all of the following requirements have been satisfied:

1. Completion of at least 48 credits toward the degree.
2. MUS 232 Piano Class.
3. MUS 204. The examination for MUS 204 will be graded by an expanded jury. The student must prepare at least 11 minutes of music.
4. MUS 242 Theory IV.
5. MUS 361-01 and -02 Music Literature.
6. MUS 097 Recital Attendance, four semesters with grade of "S".
7. ENGL 101 or ENGL 105 and at least three additional general education courses.
8. GPA of 2.5

Emphasis in Organ Performance

Major: MUSP

	Semester Hours	Total
Plan Courses		
<b>Major Area</b>		
Applied Lessons (six additional 4-hour courses).....	24	
Service Playing (two 2-hour courses).....	4	
Organ Literature (two 2-hour courses).....	4	
Senior Recital <sup>1</sup> .....	0	32
<b>Supportive Area</b>		
Analysis 348.....	2	
Advanced Theory.....	4	
Two 2-hour courses chosen from:		
Composition 143-144		
Orchestration 345-346		
Chromatic Harmony and Analysis/Analysis of Twentieth-Century Music 547-548		
Counterpoint 549-550		
Secondary Piano (three 1-hour courses).....	3	
Conducting II 360.....	2	
Music Electives.....	4	15
General Electives.....	4	4
<b>Minimum Total</b> .....		<b>134</b>

<sup>1</sup> Senior recital for all performance degrees is a public recital.

Admission to Senior College

No B.M. degree student may enroll for 400-level music courses until all of the following requirements have been satisfied:

1. Completion of at least 48 credits toward the degree.
2. Piano Proficiency Examination
3. MUS 204. The examination for MUS 204 will be graded by an expanded jury. The student must prepare at least 11 minutes of music. Keyboard majors must pass the Piano Proficiency Examination before taking the examination for MUS 204.
4. MUS 242 Theory IV.
5. MUS 361-01 and -02 Music Literature.
6. MUS 097 Recital Attendance, four semesters with grade of "S".
7. ENGL 101 or ENGL 105 and at least three additional general education courses.
8. GPA of 2.5.

Emphasis in Piano Performance

Major: MUSP

	Semester Hours	Total
<b>Plan Courses</b>		
<b>Major Area</b>		
Applied Lessons (six additional 4-hour courses) .....	24	
Piano Literature (461, 561, 562) .....	6	
Piano Ensemble (six 1/2-hour courses).....	3	
Piano Pedagogy (one 3-hour course).....	3	
Senior Recital <sup>1</sup> .....	0	36
<b>Supportive Area</b>		
Analysis 348 .....	2	
Advanced Theory .....	4	
Two 2-hour courses chosen from:		
Composition 143-144		
Orchestration 345-346		
Chromatic Harmony and Analysis/Analysis of Twentieth-Century Music 547-548		
Counterpoint 549-550		
Organ, Harpsichord, or Voice (two 1-hour courses) .....	2	
Conducting II 360 .....	2	
Music Electives .....	1	11
General Electives .....	4	4
<b>Minimum Total.....</b>		<b>134</b>

<sup>1</sup> Senior recital for all performance degrees is a public recital. A junior recital is strongly recommended for piano performance majors.

Admission to Senior College

No B.M. degree student may enroll for 400-level music courses until all of the following requirements have been satisfied:

1. Completion of at least 48 credits toward the degree.
2. Piano Proficiency Examination
3. MUS 204. The examination for MUS 204 will be graded by an expanded jury. The student must prepare at least 11 minutes of music. Keyboard major must pass the Piano Proficiency Examination before taking the examination for MUS 204.
4. MUS 242 Theory IV.
5. MUS 361-01 and -02 Music Literature.
6. MUS 097 Recital Attendance, four semesters with grade of "S".
7. ENGL 101 or ENGL 105 and at least three additional general education courses.
8. GPA of 2.5.

Emphasis in Piano Performance with concentration in Piano Pedagogy

Major: MUSP

Concentration: PDG

	Semester Hours	Total
<b>Plan Courses</b>		
<b>Major Area</b>		
Applied Lessons (four additional 4-hour courses) .....	16	
Piano Literature (461, 561, 562).....	6	
Piano Pedagogy (four 3-hour courses).....	12	
Piano Pedagogy Practicum (two 2-hour courses) .....	4	
Senior Recital <sup>1</sup> .....	0	38
<b>Supportive Area</b>		
Analysis 348 .....	2	
Advanced Theory .....	4	
Two 2-hour courses chosen from:		
Composition 143-144		
Orchestration 345-346		
Chromatic Harmony and Analysis/Analysis of Twentieth-Century Music 547-548		
Counterpoint 549-550		
Piano Ensemble (two 1/2-hour courses) .....	1	
Conducting II 360 .....	2	9
General Electives <sup>2</sup> .....	4	4
<b>Minimum Total.....</b>		<b>134</b>

<sup>1</sup> For the B.M. with concentration in Piano Pedagogy, the senior recital may be presented before the departmental faculty. A junior recital is strongly recommended for pedagogy majors.

<sup>2</sup> Students are strongly encouraged to take a course in Educational Psychology or Child Development.

Admission to Senior College

No B.M. degree student may enroll for 400-level music courses until all of the following requirements have been satisfied:

1. Completion of at least 48 credits toward the degree.
2. Piano Proficiency Examination.
3. MUS 202. The examination for MUS 202 will be graded by an expanded jury. The student must prepare at least 11 minutes of music. Keyboard majors must pass the Piano Proficiency Examination before taking the examination for MUS 202.
4. MUS 242 Theory IV.
5. MUS 361-01 and -02 Music Literature.
6. MUS 097 Recital Attendance, four semesters with grade of "S".
7. ENGL 101 or ENGL 105 and at least three additional general education courses.
8. GPA of 2.5.

Emphasis in Vocal Performance

Major: MUSP

	Semester Hours	Total
<b>Plan Courses</b>		
<b>Major Area</b>		
Applied Lessons (additional hours) .....	22	
Vocal Literature 561-562 .....	4	
Diction 123-124 .....	2	
Seminar in Voice Pedagogy 571 .....	2	
Senior Recital <sup>1</sup> .....	0	30
<b>Supportive Area</b>		
Piano Class/Secondary Piano <sup>2</sup> (six 1-hour courses).....	6	
(131-132, 231-232, 121-122)		
Two 8-hour course sequences chosen from:		
Italian 121-122		
German 121-122		
French 121-122 .....	16	22
<b>Minimum Total.....</b>		<b>135</b>

<sup>1</sup> The senior recital for all performance degrees is a public recital.

<sup>2</sup> Students must pass the Piano Proficiency Examination before receiving credit for the 4th semester of the piano requirement. Students must be enrolled continuously in the class until their piano requirement has been completed. Students who pass the Piano Proficiency Examination before the 4th semester of Piano Class are encouraged to continue keyboard study for a total of four semesters.

Admission to Senior College

No B.M. degree student may enroll for 400-level music courses until all of the following requirements have been satisfied:

1. Completion of at least 48 credits toward the degree.
2. MUS 232 Piano Class.
3. MUS 204. The examination for MUS 204 will be graded by an expanded jury. The student must prepare at least 11 minutes of music.
4. MUS 242 Theory IV.
5. MUS 361-01 and -02 Music Literature.
6. MUS 097 Recital Attendance, four semesters with grade of "S".
7. ENGL 101 or ENGL 105 and at least three additional general education courses.
8. GPA of 2.5.

Emphasis in Music Theory

Major: THEO

	Semester Hours	Total
Plan Courses		
<b>Major Area</b>		
Composition 243-344 (four 2-hour courses).....	8	
Composition Seminar 441 (four 1/2-hour courses).....	2	
Orchestration 345-346.....	4	
Analysis 348.....	2	
Choral Arranging 445.....	2	
Chromatic Harmony and Analysis/Analysis of Twentieth-Century Music 547-548.....	4	
Counterpoint 549-550.....	4	
Senior Paper 498.....	0	26
<b>Supportive Area</b>		
Conducting II 360.....	2	
Applied Lessons (four additional 2-hour courses).....	8	
Methods (three 1-hour courses).....	3	
Piano Class <sup>1,2</sup> (four 1-hour classes).....	4	
German 121 <sup>3</sup> .....	4	21
General Electives.....	4	4
<b>Minimum Total.....</b>		<b>134</b>

<sup>1</sup> If applied principal is piano, Piano Class is replaced with 4 hours of electives.  
For students with a piano background, four semesters of MUS 121-122 (Secondary Piano) may be substituted.

<sup>2</sup> Students must pass the Piano Proficiency Examination before receiving credit for the 4th semester of the piano requirement. Students must be enrolled continuously in the class until their piano requirement has been completed. Students who pass the Piano Proficiency Examination before the 4th semester of Piano Class are encouraged to continue keyboard study for a total of four semesters.

<sup>3</sup> Theory majors are strongly advised to take a second semester of German.

Admission to Senior College

No B.M. degree student may enroll for 400-level music courses until all of the following Requirements have been satisfied:

1. Completion of at least 48 credits toward the degree.
2. MUS 232 Piano Class (for non-keyboard principals) or Piano Proficiency Examination (for keyboard principals).
3. MUS 212. The examination for MUS 212 will be graded by an expanded jury. The student must prepare at least 11 minutes of music. Keyboard principals must pass the Piano Proficiency Examination before taking the examination for MUS 212.
4. MUS 242 Theory IV.
5. MUS 361-01 and -02 Music Literature.
6. MUS 097 Recital Attendance, four semesters with grade of "S".
7. ENGL 101 or ENGL 105 and at least three additional general education courses.
8. MUS 244. The examination for MUS 244 will require submission of a portfolio of compositions to the faculty of the theory/composition department.
9. GPA of 2.5.

Emphasis in Music Therapy

Major: MUTH

	Semester Hours	Total
The Music Therapy Curriculum meets the competency requirements of the American Music Therapy Association (AMTA). Students must complete a minimum of 1200 hours of clinical training which includes at least 180 hours in pre-internship experiences and at least 900 hours in internship experiences. Students completing the Music Therapy curriculum are eligible to take the examination to become a Board Certified Music Therapist, offered by the Certification Board for Music Therapists.		
Plan Courses		
<b>Major Area</b>		
Introduction to Music Therapy MUTH 101.....	1	
Music Therapy Techniques I & II MUTH 201-202.....	6	
Clinical Music Therapy Applications I-VI MUTH 213-414.....	3	
Psychology of Music MUTH 301.....	3	
Improvisation for Music Therapy I & II MUTH 311-312.....	2	
Practicum in Music Therapy VI MUTH 321-422.....	4	
Piano Accompaniment for Music Therapy MUTH 315.....	1	
Principles and Practices of Music Therapy 1 & 2 MUTH 431-432.....	6	
Introduction to Research in Music Therapy MUTH 441.....	3	
Music Therapy Training Group I & II MUTH 325-326.....	2	
Music Therapy Internship MUTH 451 <sup>3</sup> .....	2	33
<b>Supportive Area</b>		
Piano Class MUS 131-232 <sup>1,2</sup> (four 1-hour courses).....	4	
Computers and Music I MUS 553.....	2	
Percussion Methods and Techniques MUS 137.....	1	
Introduction to Jazz Improvisation MUS 118.....	1	
Guitar Class I & II MUS 217-218.....	2	
Voice Class MUS 227.....	1	
Developmental Psychology PSYC 361 or Life-Span Developmental Psychology PSYC 363.....	3	
Human Anatomy and Physiology I BIOL 260.....	3	
Abnormal Psychology PSYC 385.....	3	
Introduction to Exceptional Children EDSP 540.....	3	23
<b>Minimum Total.....</b>		<b>139</b>

<sup>1</sup> If applied principal is piano, Piano Class is replaced with 4 hours of electives.

<sup>2</sup> Students must pass the Piano Proficiency Examination before receiving credit for the 4th semester of the piano requirement. Students must be enrolled continuously in the class until their piano requirement has been completed. Students who pass the Piano Proficiency Examination before the 4th semester of Piano Class are encouraged to continue keyboard study for a total of four semesters.

<sup>3</sup> The internship is done after all other music therapy course work has been completed. The American Music Therapy Association requires that a student receive a grade of C- or better in all music therapy courses in order to be eligible for the internship. It must be completed within 24 months of completion of music therapy course work.

Admission to Senior College

No B.M. degree student may enroll for 400-level music courses until all of the following requirements have been satisfied:

1. Completion of at least 48 credits toward the degree.
2. MUS 232 Piano Class (for non-keyboard principals) or Piano Proficiency Examination (for keyboard principals).
3. MUS 212. The examination for MUS 212 will be graded by an expanded jury. The student must prepare at least 11 minutes of music. Keyboard principals must pass the Piano Proficiency Examination before taking the examination for MUS 212.
4. MUS 242 Theory IV.
5. MUS 361-01 and -02 Music Literature.
6. MUS 097 Recital Attendance, four semesters with grade of "S".
7. ENGL 101 or ENGL 105 and at least three additional general education courses.
8. GPA of 2.5.



## Nursing

Bachelor of Science in Nursing (Pre-Licensure Option)

**Major:** NURS

**Degree:** BSN

**Unit:** NU

	Semester Hours	Total
Pre-Professional Curriculum		
NURS 101, S.T.A.T. for Nursing Students(Campus Culture).....	1	
ENGL 101, Introduction to College Writing.....	3	
ENGL 102, Intermediate College Writing .....	3	
PSYC 201, Introduction to Psychology.....	3	
Oral Communication General Education Requirement .....	3	
CHEM 105, Chemistry for Health Professionals.....	4	
BIOL 102, Introduction to Biological Systems .....	3	
BIOL 260, Anatomy and Physiology I.....	3	
BIOL 261, Anatomy and Physiology II.....	3	
BIOL 262, Anatomy and Physiology Lab.....	1	
Humanities General Education Requirement .....	3	
(Selected Humanities courses cross count for the Culture Diversity Gen Ed requirement)		
MATH 107, Finite Mathematics or .....	3	
MATH 111, College Algebra or		
MATH 112, Trigonometry or		
MATH 180, Elements of Calculus or		
MATH 190, Precalculus or		
MATH 205, Calculus or any higher number Mathematics courses		
HISTORICAL STUDIES General Education Requirement.....	3	
ARTS General Education Requirement.....	3	
(Selected Arts courses cross count for Culture Diversity Gen Ed requirement)		
ECON 201, Principles of Microeconomics.....	3	
SOC 203, Self & Society or .....	3	
SOC 202, Social Problems* or		
SOC 209, Principles and Concepts of Sociology or		
SOC 210, Race in the United States* or		
SOC 313, Community Organization or		
SOC 314, Public Policy and Social Services or		
SOC 323, Diversity & Inequity		
(*SOC 202 or SOC 210 fulfills the Sociology requirement and cross counts for Cultural Diversity Gen Ed requirement)		
PSYC 363, Lifespan Development Psychology.....	3	
BIOL 257, Introductory Microbiology .....	3	
BIOL 258, Microbiology Lab .....	1	
PHIL 311, Introduction to Logic or		
PHIL 211, Critical Thinking		
(will fulfill Gen Ed Humanities requirement).....		
PHIL 323, Medical Ethics or .....	3	
PHIL 321, Ethics or		
PHIL 222, Contemporary Ethical Problems		
(will fulfill Gen Ed Humanities requirement)		
MATH 109, Elementary Statistics or.....	3	
SOC 301, Introduction to Social Statistics or		
PSYC 312, Quantitative Methods in Psychology		
HPES 303, Human Nutrition.....	3	
Culture Diversity General Education Requirement .....	3	
(6 hours required: 3 fulfilled in NURS 340; 3 hours can be fulfilled by taking any Gen Ed approved Culture Diversity course, some of which will cross count for Humanities, Arts, or Sociology requirement)		
Professional Curriculum		
<b>Junior Level</b>		
NURS 338, Lifespan Pathophysiology .....	4	
NURS 340, Lifeskills for Nursing I .....	15	
NURS 395, Basic Pharmacology.....	3	
NURS 350, Lifeskills for Nursing II .....	15	37
<b>Senior Level</b>		
NURS 440, Lifeskills for Nursing III .....	15	
NURS 450, Lifeskills for Nursing IV .....	15	30
<b>Minimum Total .....</b>		<b>128</b>

**Note:** Before beginning the Nursing Clinical Courses students must provide documentation of completion of a Certified Nursing Assistant Course or the equivalent.

## Nursing

Bachelor of Science in Nursing (Accelerated BSN Program for Second Degree Students)

**Major:** NURA

**Degree:** BSN

**Unit:** NU

Second degree students must present official transcripts of course work completed in their first degree. By virtue of having completed a first bachelors degree, it is assumed that many of the course requirements in the pre-professional curriculum will be complete.

The following science and non-science courses, or an acceptable transfer equivalency, must be completed prior to beginning the nursing clinical course sequence (N340, 350, 440, 450). It is essential that each individual receive specific advising on their program of study.

### Prerequisite Courses

#### Science Courses

CHEM 105, Chemistry for Health Professionals.....	4
BIOL 102, Introduction to Biological Systems .....	3
BIOL 257, Introductory Microbiology .....	3
BIOL 258, Microbiology Lab .....	1
BIOL 260, Anatomy and Physiology I.....	3
BIOL 261, Anatomy and Physiology II.....	3
BIOL 262, Anatomy and Physiology Lab.....	1
NURS 338, Lifespan Pathophysiology .....	4
NURS 395, Pharmacology .....	3

#### Non-Science Courses

PSYC 363, Lifespan Developmental Psych.....	3*
(or acceptable equivalent see advisor)	
HPES 303, Human Nutrition .....	3
MATH 109, Elementary Statistics .....	3*
(or SOC 301 or PSYC 312)	
NURS 330-01, Bioethics .....	1* .....

\*May take as Pass/Fail option

#### Required Nursing Clinical Courses

NURS 340, Lifeskills for Nursing I .....	15
NURS 350, Lifeskills for Nursing II .....	15
NURS 440, Lifeskills for Nursing III .....	15
NURS 450, Lifeskills for Nursing IV .....	15 .....
Minimum hours from previous baccalaureate degree.....	28

**Minimum total.....123**

**Note:** Before beginning the Nursing Clinical Courses students must provide documentation of completion of a Certified Nursing Assistant Course or the equivalent.

## Nursing

Bachelor of Science in Nursing (Accelerated RN-BSN Option)

**Major:** NUR

**Degree:** BSN

**Unit:** NU

**Note:** This option is for students who are already Registered Nurses.

RN-BSN students must present official transcripts of course work completed in their first degree. By virtue of having completed a first degree, it is assumed that many of the course requirements in the pre-professional curriculum will be complete. It is essential that each individual receive specific advising on their program of study.

	Semester Hours	Total
<b>Pre-Professional Curriculum</b>		
ENGL 101, Introduction to College Writing.....	3	
ENGL 102, Intermediate College Writing .....	3	
PSYC 201, Introduction to Psychology.....	3	
Oral Communication General Education Requirement .....	3	
CHEM 101, Introduction to Chemistry or.....	3	
CHEM 105, Chemistry for Health Professionals (4)		
BIOL 102, Introduction to Biological Systems .....	3	
(Pre-requisite to BIOL 260, 261, 262)		
BIOL 260, Anatomy and Physiology I.....	3	
BIOL 261, Anatomy and Physiology II.....	3	
BIOL 262, Anatomy and Physiology Lab.....	1	
Humanities General Education Requirement .....	3	
(Selected Humanities courses cross count for Culture Diversity Gen Ed requirement)		
MATH 107, Finite Mathematics or.....	3	
MATH 111, College Algebra or		
MATH 112, Trigonometry or		
MATH 180, Elements of Calculus or		
MATH 190, Precalculus or		
MATH 205, Calculus or any higher number Mathematics courses		
HISTORICAL STUDIES General Education Requirement.....	3	
ARTS General Education Requirement.....	3	
(Selected Arts courses cross count for Culture Diversity Gen Ed requirement)		
ECON 201, Principles of Microeconomics.....	3	
SOC 203, Self & Society or .....	3	
SOC 202, Social Problems or		
SOC 209, Principles and Concepts of Sociology or		
SOC 210, Race in the United States or		
SOC 313, Community Organization or		
SOC 314, Public Policy and Social Services or		
SOC 323, Diversity & Inequity		
*SOC 202 or SOC 210 fulfills the Sociology requirement and cross counts for Cultural Diversity Gen Ed requirement		
BIOL 257, Introductory Microbiology .....	3	
BIOL 258, Microbiology Lab .....	1	
PHIL 311, Introduction to Logic or		
PHIL 211, Critical Thinking		
(will fulfill Gen Ed Humanities requirement) .....	3	
PHIL 323, Medical Ethics or .....	3	
PHIL 321, Ethics or		
PHIL 222, Contemporary Ethical Problems		
(will fulfill Gen Ed Humanities requirement)		
MATH 109, Elementary Statistics or.....	3	
SOC 301, Introduction to Social Statistics or		
PSYC 312, Quantitative Methods in Psychology		
HPES 303, Human Nutrition* .....	3	
Cultural Diversity General Education Requirement .....	3	
(6 hours required: 3 fulfilled in NURS 470; 3 hours can be fulfilled by taking any Gen Ed approved Culture Diversity course, some of which will cross count for Humanities, Arts, or Sociology requirement)		
Free Electives (if needed) at 300 level or above .....	2	
<b>SUBTOTAL .....</b>	<b>65</b>	

\* Passing the NLN Normal Nutrition & Diet Therapy and Applied Nutrition exams will meet requirements for this course

**Note:** Students must have a minimum total of 65 credit hours for the pre-professional curriculum.

## Bridge Courses

### Summer Semester

NURS 355, RN Portfolio Development & Evaluation.....	3	
(Upon successful completion, students will be awarded 15 credit hours. Students must pay 1/2 the regular tuition for 15 hours in order to have credits posted to transcript).....	15	18

### Accelerated Nursing Courses

#### Fall Semester

NURS 360, Health Status Assessment .....	3	
NURS 395, Basic Pharmacology.....	3	
NURS 370, Integration for Practice .....	3	
NURS 338, Lifespan Pathophysiology .....	4	13

#### Spring Semester

NURS 465, Research in Clinical Practice.....	3	
NURS 470, Community Health Nursing .....	9	12

#### Summer Semester

NURS 475, Professional Issues.....	1	
NURS 480, Complex Health Management .....	8	
NURS 485, Management of Health Care.....	3	12

**Minimum Total.....120**

#### Notes:

All Foundational courses & NURS 355 must be completed prior to enrolling in the Accelerated Nursing courses.

60 credits of the 120 credits required for a baccalaureate degree must be completed at a four-year university.

30 of the last 36 credits must be completed at the University of Louisville.

All accelerated nursing courses are taught on-line.

## Occupational Training and Development

Bachelor of Science in Occupational Training and Development with concentration in Training and Development or Career and Technical Education

**Major:** OTD

**Concentration:** TDE

**Concentration:** CTE

**Degree:** BS

**Unit:** College of Education and Human Development

A minimum of 123 hours with an overall GPA of 2.25 is required. A 2.50 grade point average is required in the major. 34 hours of general education courses and a minimum of 50 hours at the 300 level or above is also required. Students must apply for the practicum one semester in advance of enrollment. Prior extensive and documented work experience or technical courses in a training area or occupation is required. Students must earn 12 hours of EDTD courses with a "B" or better average before they are considered for the granting of specialization credit.

	Semester Hours	Total
<b>University-wide General Education requirements .....</b>	<b>34</b>	<b>34</b>
(refer to page 14)		
<b>Professional Courses</b>		
<b>Core Courses (26 hours)</b>		
ELFH 312 Occupational Analysis and Curriculum Development .....	3 <sup>1</sup>	
ELFH 316 Training Methods and Techniques .....	3 <sup>1,3</sup>	
ELFH 332 Evaluation of Training ( <i>Prerequisite is ELFH 312</i> ) .....	3 <sup>1,3</sup>	
ELFH 341 Planning and Coordinating Training Facilities .....	3 <sup>1</sup>	
ELFH 445 Prior Learning Seminar .....	3 <sup>1</sup>	
ELFH 540 Practicum in Occupational Subjects		
(Prerequisite is ELFH 316 & 332) .....	8 <sup>1,4,5</sup>	
EDTD 574 Using Productivity Tools .....	3 <sup>1</sup>	
<b>Concentration: Training and Development (9 hours)</b>		
ELFH 411 Introduction to Human Resource Development .....	3 <sup>1</sup>	
ELFH 460 Adult Development and Learning.....	3 <sup>1</sup>	
ELFH 490 Management Principles for Training and Development .....	3 <sup>1</sup>	
<b>Concentration: Career and Technical Education</b>		
ELFH 310 Teaching Career and Technical Education .....	3 <sup>1,2</sup>	
ELFH 330 Special Occupational Education.....	3 <sup>1</sup>	
ECPY 507 Learning Theory and Human Growth and Development .....	3 <sup>1</sup>	

Specialization Credit:

ELFH 290, Occupational Subjects .....	(2-42)
ELFH 291, Occupational Experience.....	(2-48)
ELFH 315, Supervised Work Experience Internship.....	(3-24)
ELFH 390, Advanced Occupational Subjects .....	(2-18)
ELFH 391, Advanced Occupational Experience.....	(2-18)
ELFH 515, Staff-Industry Exchange .....	(1-3)
Electives .....	6
<b>Minimum Total.....</b>	<b>123</b>

- 1 ELFH 445 must be successfully completed prior to enrolling in additional courses in the major.
- 2 The appropriate agency must certify work experience prior to admission to teacher education.
- 3 ELFH 312 is a prerequisite.
- 4 Requirements for posting the specialization credits: prior extensive documented work learning; completion of an additional 12 hours in the major courses with a B or better grade point average.
- 5 Applications for ELFH 540 must be submitted by mid-term week of the semester prior to enrollment. A program portfolio is required. Prerequisites: ELFH 312, 316, 332 and all but 2 courses in the major must be completed prior to enrollment

## Pan-African Studies

### Bachelor of Arts in Pan-African Studies

**Major:** PAS  
**Degree:** BA  
**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....	34	
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation.....	1	
Foreign Language .....	12	
(completion of the intermediate level of a single foreign language)		
Electives in Humanities or Natural Sciences		
(in addition to courses counted toward General Education;		
6 hours must be at 300 level or above) .....		
9	22	
WR—two approved courses at the 300 level or above		
(may be incorporated into other degree requirements)		
Department of Pan-African Studies		
<b>Pan African Studies Core:</b>		
Pan African Studies 200 <sup>1</sup> .....	3	
Pan African Studies: additional course at the 200 level .....	3	
Pan African Studies 408 <sup>2</sup> .....	3	
Pan African Studies 500 or 586 .....	3	
Capstone Elective: Any 500 level Pan African Studies		
course approved by the advisor .....		
3		
<b>Pan African Studies Subfields:</b>		
Cultural Studies: Pan African Studies courses focusing on		
art, music, literature, philosophy or religion .....		
9		
Historical Studies: Pan African Studies courses focusing on		
African American, African and African Diaspora history .....		
6		
Social Studies: Pan African Studies courses focusing on race,		
gender, family, health, psycho-social, geography,		
economics, education, or politics .....		
6	36	
Supporting Courses		
Electives in Social Sciences, other than		
Department of Pan African Studies .....		
6		
Electives in the Humanities or Natural Sciences,		
of which 6 hours must be at 300 level or above .....		
12	18	
<b>Minimum Electives</b> .....	11	
<b>Minimum Total.....</b>	<b>121</b>	

<sup>1</sup> Fulfills general education requirement.  
<sup>2</sup> Fulfills WR requirement.

## Pan-African Studies

### Bachelor of Science in Pan-African Studies

**Major:** PAS  
**Degree:** BS  
**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....	34	
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation .....	1	
Electives in Humanities or Natural Sciences at the		
300 level or above (in addition to courses counted		
toward General Education) .....		
6	7	
WR—two approved courses at the 300 level or above		
(may be incorporated into other degree requirements)		
Department of Pan-African Studies		
<b>Pan African Studies Core:</b>		
Pan African Studies 200 <sup>1</sup> .....	3	
Pan African Studies: additional course at 200 level .....	3	
Pan African Studies 408 <sup>2</sup> .....	3	
Pan African Studies 500 or 586 .....	3	
Capstone Elective: any Pan African Studies course at the		
500 level or above, approved by the advisor .....		
3		
<b>Pan African Studies Subfields:</b>		
Cultural Studies: Pan African Studies courses focusing on		
art, music, literature, philosophy, or religion .....		
6		
Historical Studies: Pan African Studies courses focusing on		
African American, African, and African Diaspora history .....		
9		
Social Studies: Pan African Studies courses focusing on race,		
gender, family, health, psycho-social, geography, economics,		
education, or politics .....		
9	39	
Supporting Courses		
Electives in the Division of Social Sciences,		
other than Pan African Studies .....		
12		
Electives in Humanities or Natural Sciences,		
of which 6 hours must be at the 300 level or above .....		
18	30	
<b>Minimum Electives</b> .....	10	
<b>Minimum Total</b> .....	<b>121</b>	
Only 60 hours in the major department may be applied toward the Bachelor of Science degree.		
At least 50 of the total minimum hours required must be at the 300 level or above.		
<sup>1</sup> Fulfills general education requirement.		
<sup>2</sup> Fulfills WR requirement.		
Department of Pan-African Studies		
<b>Minor in Pan-African Studies</b>		
<b>Minor:</b> PAS		
<b>Unit:</b> College of Arts and Sciences (AS)		
	Semester Hours	Total
Pan African Studies 200 .....	3	
Cultural Studies: Pan African Studies courses focusing on		
art, music, literature, philosophy and religion.....		
6		
Historical Studies: Pan African Studies courses focusing on		
African American, African and African Diaspora history .....		
6		
Social Studies: PAS courses focusing on race, gender,		
family, health, psychosocial, geography, economics,		
education or politics .....		
6		
<b>Minimum Total</b> .....	<b>21</b>	

**Minor in Cultural Performance**

**Minor:** CLPF

**Unit:** College of Arts and Sciences (AS)

The Minor in Cultural Performance is a joint program of the Departments of Theatre Arts and Pan-African Studies.

Global Performance focus:

Pan African Studies 210 .....	3
Theatre Arts 326 .....	3
Pan African Studies 315 or Theatre Arts 366 .....	3
Theatre Arts 322 or 323 .....	3
Pan African Studies 342, 350, or 385 .....	3
Pan African Studies 550 .....	3
Electives from courses listed above or Pan African Studies 323, 360, 395, 396 .....	3

**Minimum total** .....21

United States Performance focus:

Pan African Studies 215 .....	3
Theatre Arts 323 .....	3
Theatre Arts 366 .....	3
Theatre Arts 363 or Pan African Studies 340 .....	3
Theatre Arts 322 or 326 .....	3
Pan African Studies 319, 320, or 329 .....	3
Pan African Studies 378 or any of the above as electives .....	3

**Minimum Total** .....21

**Minor in Race/Gender Studies**

The Minor in Race/Gender Studies is a joint program of the Department of Pan African Studies and the Women's Studies Program

**Minor:** RGS

**Unit:** College of Arts and Sciences (AS)

	<b>Semester Hours</b>	<b>Total</b>
Pan African Studies 200 .....	3	
Women's Studies 201 .....	3	
Pan African Studies 364/Women's Studies 347 .....	3	
Six hours chosen from the following: .....	6	
Pan African Studies 392/Women's Studies 343/ Sociology 392		
Pan African Studies 340/Women's Studies 340		
Pan African Studies 385/Women's Studies 346		
Pan African Studies 332/Women's Studies 348		
Pan African Studies 350/Women's Studies 380/Theatre Arts 363		
Pan African Studies 562/Women's Studies 540		
Pan African Studies 542/Women's Studies 543 (Other courses may be substituted with advisor approval.)		
Elective in Pan African Studies at 300-level or above (may not be cross-listed with Women's Studies) .....	3	
Elective in Women's Studies at 300-level or above (may not be cross-listed with Pan African Studies) .....	3	
<b>Minimum Total</b> .....		<b>21</b>

**Paralegal Studies**

Associate in Arts in Paralegal Studies

**Major:** PRLS

**Degree:** AA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the program's Learning Outcomes Measurement. For details, contact the program director.

	<b>Semester Hours</b>	<b>Total</b>
<b>General Education</b> .....		<b>34</b>
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation .....	1	
WR—one approved course at the 300 level or above (may be incorporated into other degree requirements)		
<b>Paralegal Studies Program</b>		
Paralegal Studies 101, 102, 203, 399 .....	10	
Any five of the following: .....	15	
Paralegal Studies 305, 310, 320, 325, 326, 330, 335, 340, 350, 360, 370, 380, 391		
Paralegal Studies 390, Internship (required of students with no paralegal background) .....	0-3	
Political Science 2011 .....	3	28-31
<b>Minimum Total</b> .....		<b>63-66</b>

<sup>1</sup> Fulfills general education requirement.

**Point Standing Requirement:**

In order to be graduated from the program, the student must earn a cumulative 2.5 overall program grade point average and a cumulative 2.75 grade point average in Paralegal Studies courses.

**Post-Baccalaureate Program**

Students with a bachelor's degree from an accredited college or university may be eligible to complete the Paralegal program by taking only the Paralegal Studies courses and showing completion of History 101 or 102 or equivalent. Such students will receive an Associate in Arts degree. Consult the paralegal advisor in the Arts and Sciences Advising Center.

## Philosophy

Bachelor of Arts in Philosophy with concentration in Humanities

**Major:** PHIL

**Concentration:** HUM

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	<b>Semester Hours</b>	<b>Total</b>
<b>General Education</b> .....	34	
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
Arts & Sciences Programmatic Requirements		
General 101: A&S Orientation .....	1	
Foreign Language .....	12	
(completion of the intermediate level of a single foreign language)		
Electives in Natural Sciences or Social Sciences		
(in addition to courses counted toward General Education;		
6 hours must be at 300 level or above) .....		
WR—two approved courses at the 300 level or above	9	22
(may be incorporated into other degree requirements)		
Department of Philosophy		
Philosophy 301-304 (any three) .....	9	
Philosophy 311, 312, or 512 (any one) .....	3	
Philosophy 321 .....	3	
Philosophy elective at 300 level or above .....	3	
Philosophy electives at 500 level .....	6	24
Supporting Courses		
Humanities 591, 592, 593, 594, 595, or 596 <sup>1</sup> .....	3	
Electives in Humanities Division, other than Philosophy,		
at 300 level or above .....	15	18
<b>Minimum Electives</b> .....		23
<b>Minimum Total</b> .....		121

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup>Fulfills WR requirement.

## Philosophy

Bachelor of Arts in Philosophy with concentration in Social Sciences

**Major:** PHIL

**Concentration:** SSC

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	<b>Semester Hours</b>	<b>Total</b>
<b>General Education</b> .....	34	
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		

Arts & Sciences Programmatic Requirements

  General 101: Modes of Inquiry .....

  Foreign Language .....

    (completion of the intermediate level of a single foreign language)

  Electives in Natural Sciences or Social Sciences

    (in addition to courses counted toward General Education;

    6 hours must be at 300 level or above) .....

  WR—two approved courses at the 300 level or above

    (may be incorporated into other degree requirements)

  Department of Philosophy

    Philosophy 301-304 (any three) .....

    Philosophy 311, 312, or 512 (any one) .....

    Philosophy 321 .....

    Philosophy elective at 300 level or above .....

    Philosophy electives at 500 level .....

  Social Science-related elective in Philosophy

    (PHIL 308, 317, 318, 323, 328, 329, 330,

    350, 504, 518, 523, 524, 535, 537,

    or other, by approval of undergraduate adviser).....

  Supporting Courses

    Humanities 591, 592, 593, 594, 595, or 596<sup>1</sup> .....

    Electives in Social Sciences Division at 300 level or above <sup>2,3</sup> .....

    Electives in Social Sciences Division at 400 level or above <sup>3</sup>.....

**Minimum Electives** .....

**Minimum Total** .....

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup>Fulfills WR requirement.

<sup>2</sup>It is strongly recommended that three hours be devoted to each of "theory" and "methods" as defined by a particular social science discipline. Student should seek advising with the departmental undergraduate adviser to determine appropriate courses.

<sup>3</sup>In addition to courses counted for general education or college programmatic requirements.

## Philosophy

Bachelor of Arts with concentration in Bioethics

**Major:** PHIL

**Concentration:** BIO

**Degree:** BA

**Unit:** Collge of Arts and Sciences (A&S)

	<b>Semester Hours</b>	<b>Total</b>
<b>General Education</b> .....	34	
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
Arts and Sciences Programmatic Requirements		
General 101: A&S Orientation .....	1	
Foreign Language (completion of the intermediate level		
of a single foreign language).....	12	
Electives in Natural Sciences or Social Sciences (in		
addition to courses counted toward General Education);		
6 hours must be at the 300 level or above.....	9	22
WR—two approved courses at the 300 level or above		
(may be incorporated into other degree requirements)		
Department of Philosophy		
Philosophy 301, 302, 303, 304 (select two).....	6	
Philosophy 311, 312, or 512.....	3	
Philosophy 321 .....	3	
Philosophy 323.....	3	
Philosophy 308, 320, 330, 350, 521, 522, 523, 535,		
536 (select 3, one of which must be at the 500 level).....	9	24

Supporting Courses  
 Humanities 591, 592, 593, 594, 595, or 596<sup>1</sup> .....3  
 Biology 240, 329, 330, 357, 360, 376, or 485 .....3

**Medicine and Health area:**  
 Select two courses from this area or one course from this area and one course from the Social Justice area .....6  
 Anthropology 350, 351; Communication 430;  
 History 328; Pan African Studies 366;  
 Pan African Studies 365/Psychology 366;  
 Pan African Studies 384/Geography 362;  
 Sociology 340, 342, 343/Women's Studies 312  
 Women's Studies 535/HPES 564

**Social Justice area:**  
 Anthropology 333; History 321;  
 History 322/Pan African Studies 322; Humanities 331/Women's Studies 303;  
 Pan African Studies 326;  
 Women's Studies 343/Pan African Studies 392/Sociology 392

Electives in Humanities Division, other than Philosophy,  
 at the 300 level or above .....9 .....21

**Minimum Electives** .....20  
**Minimum Total** .....121

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.  
 At least 50 of the total minimum hours required must be at the 300 level or above.  
<sup>1</sup>Fulfills WR requirement.

Arts & Sciences Programmatic Requirements  
 General 101: A&S Orientation .....1  
 Foreign Language .....12  
 (completion of the intermediate level of a single foreign language)  
 Electives in Humanities or Social Sciences  
 (in addition to courses counted toward General Education,  
 6 hours must be at the 300 level or above) .....9 .....22  
 WR—two approved courses at the 300 level or above  
 (may be incorporated into other degree requirements)

Department of Physics  
 Physics 295<sup>1</sup>, 296, 301 .....3  
 Physics 298<sup>1</sup>, 299, 300 .....11  
 Physics 460, 530, 541 .....9  
 Physics electives at the 300 level or above .....9 .....32

Supporting Courses  
 Mathematics 205<sup>1</sup>, 206, 301 .....12  
 Chemistry 201, 202, 207, 208, 209 .....9  
 Biology 240 and 244 .....5  
 Geosciences 301 .....3 .....29

**Minimum Electives** .....3  
**Minimum Total** .....121

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.  
 At least 50 of the total minimum hours required must be at the 300 level or above.  
<sup>1</sup> Fulfills general education requirement.

## Minor in Philosophy

**Minor:** PHIL  
**Unit:** College of Arts and Sciences (AS)

	<b>Semester Hours</b>	<b>Total</b>
Philosophy 301, 302, 303, 304 (any one) .....	3	
Philosophy 211, 311, 312, 512, (any one) .....	3	
Philosophy 222, 225, 321, 323, 331 (any one) .....	3	
Philosophy electives at 300 level or above .....	6	
Philosophy elective at 500 level .....	3	
<b>Minimum total</b> .....		<b>18</b>

## Physics

Bachelor of Arts in Physics

**Major:** PHYS  
**Degree:** BA  
**Unit:** College of Arts and Sciences (AS)

The B.A. degree in Physics is designed for substantial pre-professional education for such fields as medicine, patent law, teaching, technical writing, and technical sales. Students preparing for secondary school science teaching may choose electives to fulfill teaching certification requirements and, if desired, to complete a 21-hour teaching minor.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	<b>Semester Hours</b>	<b>Total</b>
<b>General Education</b> .....		<b>34</b>

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

## Physics

Bachelor of Science in Physics

**Major:** PHYS  
**Degree:** BS  
**Unit:** College of Arts and Sciences (AS)

The B.S. Degree is intended as preparation for entry into graduate programs in physics and other scientific or engineering fields. It also provides suitable training for entering the workforce in a technical position.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	<b>Semester Hours</b>	<b>Total</b>
<b>General Education</b> .....		<b>34</b>

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

Arts & Sciences Programmatic Requirements  
 General 101: A&S Orientation .....1  
 Electives in Humanities or Social Sciences at 300 level or above,  
 in addition to courses counted toward General Education .....6 .....7  
 WR—two approved courses at the 300 level or above  
 (may be incorporated into other degree requirements)

Department of Physics  
**Core Courses**  
 Physics 295<sup>1</sup>, 296, 301 .....3  
 Physics 298<sup>1</sup>, 299, 300 .....11  
 Physics 351 .....2  
 Physics 390, 450, 460, 541, 555 .....15  
 Professional, Applied Optics, Astronomy and Astrophysics,  
 Computational Science, or Materials Science concentration  
 (see below) .....11-14 .....42-45

Physics Concentrations

**Professional**

Physics 530 .....	3
Physics 542 .....	3
Physics 556 .....	3
Physics 498 .....	3

**Applied Optics**

Physics 355, 356 .....	5
Physics 542 or Electrical & Computer Engineering 540 .....	3
Physics 545 or Electrical & Computer Engineering 545 .....	3

**Astronomy and Astrophysics**

Physics 307 .....	3
Physics 308 .....	1
Physics 355 .....	3
Physics 589 .....	3
Physics 590 .....	3

**Computational Science**

Physics 565 .....	3
Computer Engineering & Computer Science 120 .....	1
Computer Engineering & Computer Science 121 .....	2
Computer Engineering & Computer Science 303 .....	1
Computer Engineering & Computer Science 306 .....	1
Electrical & Computer Engineering 210 .....	3
Electrical & Computer Engineering 412 .....	3

**Materials Science**

Chemical Engineering 251 .....	4
Chemical Engineering 253 .....	3
Electrical & Computer Engineering 542 .....	3
Physics 575 .....	3

Supporting Courses

Chemistry 201 and 202 <sup>1</sup> .....	6
Mathematics 205 <sup>1</sup> , 206, 301 .....	12

**Minimum Electives** .....16-20

**Minimum Total** .....121

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

Physics

Minor in Physics

**Minor:** PHYS

**Unit:** College of Arts and Sciences (AS)

	<b>Semester Hours</b>	<b>Total</b>
Physics 221, 222, 223, 224, or 295, 296, 298, 299 .....	8-10	
Physics 300, 301 .....	4	
Physics electives numbered 302 through 599 (No more than 3 hours may be taken in Independent Study) .....	4-6	
<b>Minimum Total</b> .....		<b>18</b>

Political Science

Bachelor of Arts in Political Science

**Major:** POLS

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	<b>Semester Hours</b>	<b>Total</b>
<b>General Education</b> .....		<b>34</b>

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

Arts & Sciences Programmatic Requirements

General 101: A&S Orientation.....1

Foreign Language .....12

(completion of the intermediate level of a single foreign language)

Electives in Humanities or Natural Sciences

(in addition to courses counted toward General Education;

6 hours must be at 300 level or above) .....9

WR—two approved courses at the 300 level or above

(may be incorporated into other degree requirements)

Department of Political Science

**Option 1:**

Political Science 201<sup>1</sup> and either

Political Science 111<sup>2</sup>, 202<sup>1</sup>, 203, or 299<sup>1</sup>

**or**

**Option 2:**

Political Science 111<sup>2</sup>, 202<sup>1</sup>, 203, or 299<sup>1</sup>

and one 300+ level course in American Politics .....6

Political Science 390 .....3

One course from three of the following areas .....9

*American Politics:* 306, 311-319, 321, 322, 324, 327, 501

*Urban and Public Policy:* 302, 304, 305, 325, 326,

392, 426, 505, 519<sup>3</sup>

*Comparative Politics:* 340, 341, 345<sup>3</sup>, 349<sup>3</sup>, 350, 355, 362,

363, 365<sup>3</sup>, 366, 367, 370, 371, 437, 502, 554, 563

*International Relations:* 330, 331<sup>3</sup>, 332<sup>3</sup>, 333-339,

436, 450, 506, 530, 535

*Political Theory:* 380<sup>3</sup>, 381, 382, 383, 384<sup>3</sup>,

386<sup>3</sup>, 387, 388, 504<sup>3</sup>, 568<sup>3</sup>

Political Science 495<sup>3</sup> .....3

Political Science electives .....9

Supporting Courses

Economics 202<sup>1</sup> .....3

Two courses in one department in Social Sciences Division,

other than Political Science .....6

Electives in the Division of Social Sciences,

other than Political Science, at the 300 level or above .....9

**Minimum Electives** .....17

**Minimum Total** .....121

**Note:** No more than 6 hours of Political Science 450 and no more than 6 hours of Political Science 510 may count toward the major.

Only 40 hours in the major department may be applied toward the Bachelor of Arts Degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

<sup>2</sup> Fulfills SP requirement.

<sup>3</sup> Fulfills WR requirement.

<sup>4</sup> Additional hours in language and logic are recommended.

## Political Science

Bachelor of Science in Political Science with Concentration in Law and Public Policy

**Major:** POLS

**Concentration:** LPP

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
<b>General Education</b> .....		34
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation .....	1	
Electives in Humanities or Natural Sciences at 300 level or above, in addition to courses counted toward General Education .....	6	
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
<b>Department of Political Science</b>		
Political Science 201 <sup>1</sup> or 299 <sup>1</sup> .....	3	
Political Science 390 .....	3	
Political Science 325 or 326 .....	3	
<b>Law and Jurisprudence Area:</b>		
Political Science 312, 313, 314, 315, 332 <sup>2</sup> ; 337, Paralegal Studies 325, 326 (select 4) .....	12	
<b>Public Policy Area:</b>		
Political Science 302, 325, 326, 333, 392, 426, 505, 519 <sup>2</sup> (select 3) .....	9	
<b>International/Comparative/Theory Area:</b>		
Political Science 330, 331 <sup>2</sup> , 334, 335, 336, 339, 362, 363, 382, 383, 388 (select one) .....	3	
Political Science 495 <sup>2</sup> : Senior Seminar .....	3	
Electives in Political Science .....	6	42
<b>Supporting Courses</b>		
Economics 201 and 202 <sup>1</sup> .....	6	
Economics electives at 300 level or above .....	6	
Mathematics 107 <sup>1</sup> or 180 <sup>1</sup> .....	3	
Philosophy 211 or 311 .....	3	
Sociology 301, Psychology 301, Mathematics 109, or Management 201 .....	3	
Electives in the Division of Social Sciences, other than Political Science and Economics, at 300 level or above .....	6	28
<b>Minimum Electives</b> .....		10
<b>Minimum Total</b> .....		121

Note: No more than 6 hours of Political Science 450 and no more than 6 hours of Political Science 510 may count toward the major.

<sup>1</sup> Fulfills general education requirement.

<sup>2</sup> Fulfills WR requirement.

## Political Science

Bachelor of Science with Concentration in Paralegal Studies

**Major:** POLS

**Concentration:** PARA

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
<b>General Education</b> .....		34
All degrees require the completion of the University-wide General Education program. See page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>A&amp;S Programmatic Requirements</b>		
General 101: A&S Orientation .....	1	
Humanities or Natural Sciences at 300+ level, in addition to courses counted toward General Education .....	6	7
WR—two approved courses at 300+ level (may be incorporated into other degree requirements)		
<b>Department of Political Science</b>		
Political Science 201 <sup>1</sup> or 299 <sup>1</sup> .....	3	
Political Science 390 .....	3	
Political Science 325 or 326 .....	3	
Political Science 495 <sup>2</sup> : Senior Seminar .....	3	
<b>Law and Jurisprudence Area:</b>		
Political Science 312, 313, 314, 332 <sup>2</sup> ; 337, (select three) .....	9	
<b>Policy Area:</b>		
Political Science 302, 325, 326, 333, 392, 426, 505, 519 <sup>2</sup> (select two) .....	6	
<b>International/Comparative/Theory Area:</b>		
Political Science 330, 331 <sup>2</sup> , 334, 335, 336, 339, 362, 363, 382, 383, 388, (select one) .....	3	30
<b>Paralegal Concentration:</b>		
Paralegal Studies 101, 102, 203, 399, and 390 .....	13	
Electives in Paralegal Studies .....	15	28
<b>Supporting Courses</b>		
Economics 201 and 202 <sup>1</sup> .....	6	
Sociology 301, Psychology 301, Mathematics 109, or Management 201 .....	3	
Philosophy 211 or 311 .....	3	
Mathematics 107 <sup>1</sup> or 180 <sup>1</sup> .....	3	
Electives in the Division of Social Sciences at the 300-level or above, other than Political Science or Paralegal Studies .....	6	21
<b>Minimum Electives</b> .....		1
<b>Minimum Total</b> .....		121

<sup>1</sup> Fulfills general education requirement.

<sup>2</sup> Fulfills WR requirement.

## Political Science

Minor in Political Science

**Minor:** POLS

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Political Science 201 <sup>1</sup> and 202 <sup>1</sup> .....	6	
One course each in any 3 of the 5 subfields listed under the B.A. program .....	9	
Political Science electives .....	6	
<b>Minimum Total</b> .....		21

<sup>1</sup> Fulfills general education requirement.



## Psychology

Bachelor of Arts in Psychology with concentration in Natural Sciences

**Major:** PSYC

**Concentration:** NSC

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
Arts & Sciences Programmatic Requirements		
General 101: A&S Orientation .....	1	
Foreign Language .....	12	
(completion of the intermediate level of a single foreign language)		
Electives in Humanities or Natural Sciences		
(in addition to courses counted toward General Education;		
6 hours must be at 300 level or above) .....		
	9	22
WR—two approved courses at the 300 level or above		
(may be incorporated into other degree requirements)		
Department of Psychology		
Psychology 2011, 301-302.....	9	
Four courses from the following:		
313, 321, 322, 331, 344, 361 or 363, 372, 375, 385, 501 .....	12	
Electives in Psychology .....	9	30
Supporting Courses		
Electives in the Division of Natural Sciences, in addition to		
courses counted toward General Education, to bring		
total hours in Natural Sciences to 21, with no more than		
12 hours in any one department .....		
		11
<b>Minimum Electives</b> .....		24
<b>Minimum Total</b> .....		121

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

## Psychology

Bachelor of Arts in Psychology with concentration in Social Science

**Major:** PSYC

**Concentration:** SSC

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		34
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
Arts & Sciences Programmatic Requirements		
General 101: A&S Orientation .....	1	
Foreign Language .....	12	
(completion of the intermediate level of a single foreign language)		
Electives in Humanities or Natural Sciences		
(in addition to courses counted toward General Education;		
6 hours must be at 300 level or above) .....		
	9	22
WR—two approved courses at the 300 level or above		
(may be incorporated into other degree requirements)		
Department of Psychology		
Psychology 2011, 301-302.....	9	
Four courses from the following:		
313, 321, 322, 331, 344, 361 or 363, 372, 375, 385, 501 .....	12	
Electives in Psychology .....	9	30
Supporting Courses		
Electives in one Social Science Department,		
other than Psychology .....		
		6
Electives in a second Social Science department,		
other than Psychology .....		
		6
Electives in Social Sciences, other than Psychology .....		18
<b>Minimum Electives</b> .....		17
<b>Minimum Total</b> .....		121

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

## Psychology

Bachelor of Science in Psychology

**Major:** PSYC

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

	<b>Semester Hours</b>	<b>Total</b>
<b>General Education</b> .....	34	
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>A&amp;S Programmatic Requirements</b>		
General 101: A&S Orientation .....	1	
Electives in Humanities or Natural Sciences at 300+level .....	6	7
(in addition to courses counted toward General Education)		
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
<b>Department of Psychological and Brain Sciences</b>		
Psychology 201, 301-302 .....	9	
Four courses from the following:.....	12	
Psychology 313, 321, 322, 331, 343, 344, 361 or 363, 372, 375, 385, or 501		
Electives in Psychology .....	18	39
<b>Supporting Courses</b>		
Biology 240, 242, 244 .....	8	
Chemistry 201, 202, 207, 208, 209.....	9	
Computer Engineering and		
Computer Science 121, 303, and 306.....	3	
Mathematics 205 (or higher level course).....	3-4	
Physics 221, 222, 223, 224.....	8	31-32
Minimum Electives .....	9-10	
<b>Total Minimum</b> .....		<b>121</b>

**Note:** Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

## Psychology

Minor in Psychology

**Minor:** PSYC

**Unit:** College of Arts and Sciences (AS)

	<b>Semester Hours</b>	<b>Total</b>
Psychology 201 .....	3	
Psychology 301-302 .....	6	
Three courses from the following:		
313, 321, 322, 331, 344, 361 or 363, 372, 375, 385, 501 .....	9	
Electives in Psychology .....	3	
<b>Minimum Total</b> .....		<b>21</b>

## Religious Studies

Minor in Religious Studies

**Minor:** RS

**Unit:** College of Arts and Sciences (AS)

**Note:** The Religious Studies Minor is housed in the Humanities Division Program

	<b>Semester Hours</b>	<b>Total</b>
Humanities 510 (Area A) .....	3	
One course from Area B .....	3	
One course from Area C .....	3	
One course from Area D .....	3	
One course from Area E .....	3	
One course from Area F .....	3	
<b>Minimum Total</b> .....		<b>18</b>

**Area A: Methods and Theories**

Humanities 510

**Area B: Overview of Religious Studies**

Humanities 215, 216

Anthropology 331

Philosophy 345

Sociology 346

**Area C: Christianity**

Humanities 312, 319, 335

History 350, 572

**Area D: Eastern Religions or Islamic Studies**

Humanities 306, 316, 341, 342, 343, 345

Philosophy 315

Women's Studies 345

**Area E: Jewish Studies**

Humanities 309, 311, 317, 318

**Area F: Topical Courses**

Humanities 338, 339, 340, 344, 377, 379, 511, 512, 513, 514;

Pan African Studies 317, 328;

Women's Studies 340

## Science-Dentistry

Bachelor of Science in Science-Dentistry

**Major:** SDE

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

	<b>Semester Hours</b>	<b>Total</b>
<b>General Education</b> .....		<b>34</b>
All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.		
<b>Arts &amp; Sciences Programmatic Requirements</b>		
General 101: A&S Orientation .....	1	
Electives in Humanities or Social Sciences at 300 level or above (in addition to courses counted toward General Education) .....	6	7
WR—two approved courses at the 300 level or above (may be incorporated into other degree requirements)		
<b>Division of Natural Sciences</b>		
Mathematics 180 or 205 <sup>1</sup> .....	3-4	
Biology 240, 242, 244, 329 .....	11	
Biology 330-331, 347, 348, 400, 465, 485, 540, or Chemistry 445 (select two) .....	6-9	
Chemistry 201-202, 207, 208, 209 .....	9	
Chemistry 341-342, 343-344 .....	8	
Physics 221-222, 223-224 .....	8	44-49
<b>Minimum Electives</b> .....		<b>1-6</b>
<b>Minimum Total College of Arts and Sciences</b> .....		<b>91</b>

**Professional Program**

Completion of regular first year courses in School of Dentistry.

Completion of 30 of the last 36 hours of non-professional work in the College of Arts & Sciences at the University of Louisville

<sup>1</sup> Fulfills general education requirement.

## Secondary Education

### Secondary Education (8-12)

#### Teacher Certification

**Unit:** College of Education and Human Development

Students interested in teacher certification first complete a baccalaureate degree in an appropriate academic field before entering the teacher certification program at the graduate level. Students must apply and be accepted into the Master of Arts in Teaching degree program in order to complete teacher certification.

The following courses are pre-requisites for application to the Master of Arts in Teaching degree in Secondary Education. They may be taken as part of the baccalaureate degree program. In addition to these courses, other application credentials must be submitted. For a complete listing of admission requirements and application deadlines, contact the College of Education and Human Development Advising Center at 852-5597.

#### Semester Hours

#### A Bachelor's degree including:

Speech Communication  
(OR Speech Proficiency Exam).....3  
Secondary Teaching Field (English, Mathematics, Social Studies, Biological Science, Chemistry, Physics, Earth Space Sciences or Business and Marketing Education).....Minimum of 30 hours

For a listing of specific courses, which meet the requirements listed above, contact the College of Education and Human Development Advising Center.

#### Note Regarding Certification in Special Education:

Certification in special education is offered in Learning and Behavior Disorders (Grades P-12), Moderate and Severe Disabilities (Grades P-12), and Vision Impairment (Grades P-12). Coursework is taken after the completion of the Master of Arts in Teaching degree program. The option of a "stand alone" program for certification in Learning and Behavioral Disorders or Moderate and Severe Disorders is also available for students who hold a bachelor's degree and a 2.5 or above grade point average. Specific information regarding teacher certification in special education is available from the College of Education and Human Development Advising Center.

## Sociology

### Bachelor of Arts in Sociology

**Major:** SOC

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

#### Semester Hours

**General Education** .....34

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

#### Arts & Sciences Programmatic Requirements

General 101: A&S Orientation.....1

Foreign Language .....12

(completion of the intermediate level of a single foreign language)

#### Electives in Humanities or Natural Sciences

(in addition to courses counted toward General Education;

6 hours must be at 300 level or above) .....9 .....22

WR—two approved courses at the 300 level or above

(may be incorporated into other degree requirements)

#### Department of Sociology

Sociology 209<sup>1</sup>, 301, 303, 320, 323 .....15

Sociology electives at 300 level .....6

Sociology electives at 400 level or above .....9

Sociology electives at any level .....3 .....33\*

\* 9 hours must come from the following list of restricted electives in Sociology:

314, 315, 325, 327, 334, 336, 371, 374, 410, 452, 454, 455, 456, 464, 474, 503

#### Supporting Courses

(in addition to courses counted toward general education)

Electives in one department in the Division of Social Sciences,

other than Sociology .....6

Electives in a second department in the

Division of Social Sciences, other than Sociology .....6

Electives in Social Sciences other than Sociology,

at 300 level or above .....6 .....18

**Minimum Electives** .....14

**Minimum Total** .....121

Only 40 hours in the major department may be applied toward the Bachelor of Arts degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

## Sociology

### Bachelor of Science in Sociology

**Major:** SOC

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

#### Semester Hours

**General Education** .....34

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

#### Arts & Sciences Programmatic Requirements

General 101: A&S Orientation .....1

Electives in Humanities or Natural Sciences at 300 level or above,

in addition to courses counted toward general education .....6 .....7

WR—two approved courses at the 300 level or above

(may be incorporated into other degree requirements)

#### Department of Sociology

Sociology 209<sup>1</sup>, 301, 303, 320, 323 .....15

Sociology electives at 300 level .....9

Sociology electives at 400 level or above .....12

Sociology electives at any level .....3 .....39\*

\*12 hours must come from the following list of restricted electives in Sociology:

314, 315, 325, 327, 334, 336, 371, 374, 410, 452, 454, 455, 456, 464, 474, 503

#### Supporting Courses

Electives in Division of Social Sciences, other than Sociology,

of which 6 hours must be at the 300 level or above

(in addition to courses counted toward general education) .....24

**Minimum Electives** .....17

**Minimum Total** .....121

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Fulfills general education requirement.

## Sociology

Minor in Sociology

**Minor:** SOC

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Sociology 209, 301, 303, 320, 323 .....	15	
Sociology electives at any level .....	3	
Sociology electives at 300 level or above .....	3	
<b>Minimum Total</b> .....		<b>21</b>

## Spanish

Bachelor of Arts in Spanish

**Major:** SPAN

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education</b> .....		<b>34</b>

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

Arts & Sciences Programmatic Requirements

General 101: A&S Orientation .....

Foreign Language .....

(completion of the intermediate level of a single foreign language)

Electives in Natural Sciences or Social Sciences

(in addition to courses counted toward General Education;

6 hours with 3 hours at the 300 level or above)<sup>1</sup> .....

WR—two approved courses at the 300 level or above

(may be incorporated into other degree requirements)

Program in Spanish

Spanish 201, 202, 321, 322, 355, 523<sup>2</sup>, 524 and 590 .....

Spanish 401 **or** 402 .....

Spanish 403 **or** 404 .....

Spanish (one elective at the 300 level or above) .....

Spanish (one elective at the 500 level).....

Supporting Courses

Humanities 591, 592, 593, 594, 595, or 596 .....

Electives in Humanities Division disciplines,

other than Spanish, at 300 level or above<sup>3</sup> .....

Anthropology 316, 325, 328; History 331, 332, 375, 533;

Political Science 370, 371 (select one) .....

**Minimum Electives** .....

**Minimum Total** .....

No more than 40 hours in Spanish may be applied toward the Bachelor of Arts degree. Spanish 121-123 and 141-142 do not count toward the 40 hour maximum in Spanish.

At least 50 of the total minimum hours required must be at the 300 level or above.

<sup>1</sup> Note: additional 3 hours of Arts & Sciences programmatic requirement in Natural Sciences or Social Sciences is met in Supporting Courses.

<sup>2</sup> Fulfills WR requirements

<sup>3</sup> Majors in one foreign language may count courses at the 300 level or above in another foreign language toward this requirement.

## Spanish

Minor in Spanish

**Minor:** SPAN

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Spanish 201, 202, 321, 322, 355 .....	15	
Spanish 401, 402, 403, 404 (select one) .....	3	
Elective at 300 or 500 level .....	3	
<b>Minimum Total</b> .....		<b>21</b>

## Sport Administration

Bachelor of Science in Sport Administration

**Major:** SPAD

**Degree:** BS

**Department:** HPES

**Unit:** College of Education and Human Development

A minimum of 123 hours with an overall GPA of 2.25 is required including a minimum of 50 hours at the 300 level. Only one "D" in HPES or SPAD courses is allowed.

	Semester Hours	Total
<b>University-wide General Education requirements</b>		

(refer to p. 14) .....

Program Requirements

HPES 181 Academic Orientation .....

HPES 101-167 Physical Education Activity Courses .....

HPES 184 Healthy Lifestyles I.....

**or**

HPES 310, Healthy Lifestyles II.....

**Core Courses in Sport Administration**

SPAD 381 Principles of Sport Administration.....

SPAD 382 Organizational Behavior in Sport.....

SPAD 383 Sport Marketing .....

SPAD 384 Current Trends and Issues in Sport Administration.....

SPAD 389 Legal Aspects of Sport.....

SPAD 390 Sport Governance.....

SPAD 391 Sport in American Society .....

SPAD 402 Cooperative Internship in Sport Admin.....

SPAD 404 Financial Principles in Sport .....

SPAD 472 The Sport Industry .....

SPAD 505 Sport Facility Management.....

SPAD 525, Sport Event Management .....

SPAD electives:

Select from SPAD 360, 529, 561, or HPES 293

or other class approved by advisor .....

Electives (consult advisor) .....

HPES concentration or an approved minor is highly recommended.

Suggested minors include: Marketing, Business Administration,

Communications, Exercise Science & Sports Medicine, Health Promotion,

and Physical Education

Consult advisor for recommended areas.

**Minimum Total**.....

## Sport Administration

Minor in Sport Administration

**Minor:** SADM

**Department:** HPES

**Unit:** College of Education and Human Development

	Semester Hours	Total
Core Courses		
SPAD 381, 383, 384, 389.....	12	
Six hours from the following: SPAD 360, 382, 390, 391, 402, 404, 472, 505, 525, 529, 561 .....	6	
<b>Minimum Total.....</b>		<b>18</b>

**Note:** A 2.5 gpa is required in the minor. Only one "D" will be accepted in courses for the minor.

## Theatre Arts

Bachelor of Science in Theatre Arts

**Major:** TA

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

	Semester Hours	Total
<b>General Education .....</b>		<b>34</b>

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

Arts & Sciences Programmatic Requirements

General 101: A&S Orientation.....1

Electives in Social Sciences or Natural Sciences,  
at 300 level or above .....6 .....

WR—two approved courses at the 300 level or above  
(may be incorporated into other degree requirements)

Department of Theatre Arts

**Academic Core:** .....12

Theatre Arts 360, 361, 362, and 371

**Performance Core:** .....12

Theatre Arts 320 or 322

Theatre Arts 321

Theatre Arts 323, 330, 420, 421, 533 (select 2)

**Production Core:** .....12

Theatre Arts 240 and 241

Theatre Arts 340, 345, 349 (select 2)

**African American Theatre Core:** .....12

Theatre Arts 326, 343, 366, 367

Performance/Production Projects: Theatre Arts 350 .....3

Electives in Theatre Arts .....9 .....

Supporting Courses

Humanities 591, 592, 593, 594, 595, or 596 .....3

Electives in the Division of Humanities, other than Theatre Arts,  
at the 300 level or above .....12

Health Promotion, Physical Education and

Sports Studies 101-167 (select 2) .....2 .....

**Minimum Electives .....**

**Minimum Total.....**

Only 60 hours in the major department may be applied toward the Bachelor of Science degree.

At least 50 of the total minimum hours required must be at the 300 level or above.

## Theatre Arts

Minor in Theatre Arts

**Minor:** TA

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Theatre Arts 240, 320 or 322, 350, 371 .....	10	
Three courses from a single one of the following areas: .....	9	
Acting/Directing (321, 323, 330, 420, 421)		
Design/Technical Theatre (241, 340, 349, 540, 541, 543, 545, 549)		
Theatre History/Literature (360, 361, 362, 363, 366, 368, 369, 567, 571)		
African-American Theatre (322, 323, 343, 363, 366, 367, 460)		
<b>Minimum Total .....</b>		<b>19</b>

## Theatre Arts

Minor in African American Theatre

**Minor:** AATA

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Theatre Arts 322, 323 (select one) .....	3	
Theatre Arts 326 .....	3	
Theatre Arts 350 .....	1	
Theatre Arts 362, 363, 365, 366, 367 (select four) .....	12	
<b>Minimum Total .....</b>		<b>19</b>

## Cultural Performance

Minor in Cultural Performance

**Minor:** CLPF

**Unit:** College of Arts and Sciences (AS)

The Minor in Cultural Performance is a joint program of the Departments of Theatre Arts and Pan African Studies.

**Global Performance focus:**

Pan African Studies 210 .....3

Theatre Arts 326 .....3

Pan African Studies 315 or Theatre Arts 366 .....3

Theatre Arts 322 or 323 .....3

Pan African Studies 342, 350, or 385 .....3

Pan African Studies 550 .....3

Electives from courses listed above or

Pan African Studies 323, 360, 395, 396 .....3

**Minimum total .....**

**United States Performance focus:**

Pan African Studies 215 .....3

Theatre Arts 323 .....3

Theatre Arts 366 .....3

Theatre Arts 363, or Pan African Studies 340 .....3

Theatre Arts 322 or 326 .....3

Pan African Studies 319, 320, or 329 .....3

Pan African Studies 378 or any of the above as electives .....3

**Minimum total.....**

## Urban and Regional Analysis

Minor in Urban and Regional Analysis

**Minor:** U&RA

**Department:** GEOG

**Unit:** College of Arts and Sciences (AS)

	Semester Hours	Total
Geography 200, 327, 328 .....	9	
Any 4 of Geography 331, 378, 390 <sup>1</sup> , 531, 535, 538, 561, 590 <sup>1</sup> .....	12	
<b>Minimum Total</b> .....		<b>21</b>

<sup>1</sup> Must be an urban topic.

## Women's and Gender Studies

Bachelor of Arts

**Major:** WGST

**Degree:** BA

**Unit:** College of Arts and Sciences (AS)

**General Education** .....34

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

**Arts and Sciences Programmatic Requirements**

Gen 101 .....1

9 hours of electives in HUM or NS, 300+  
(incorporated into supporting courses requirement)

Foreign language .....12

WR (incorporated into other degree requirements)

**Women's and Gender Studies core courses**

WGST 201<sup>2</sup> .....3

WGST 401 .....3

WGST 500<sup>3</sup> or WGST 501<sup>3</sup> .....3

**WGST Humanities electives:**

Choose 3, of which one must meet the departmental diversity requirement, unless met in your concentration, and one must be at the 400+ level .....9  
WGST 203<sup>2</sup>, 303<sup>2</sup>, 325, 326, 340, 342<sup>\*2,3</sup>, 345<sup>\*2</sup>, 346\*, 360<sup>2</sup>, 373<sup>3</sup>, 380<sup>\*3,2</sup>, 381, 395<sup>2</sup>, 520, 522<sup>3</sup>, 560, 571<sup>\*3</sup>

**WGST Social Science electives:**

Choose 3, of which one must meet the departmental diversity requirement, unless met in your concentration, and one must be at the 400+ level .....9  
WGST 300\*, 312, 313, 331<sup>2</sup>, 332<sup>3</sup>, 333<sup>\*2</sup>, 343\*, 347<sup>\*2,3</sup>, 348<sup>\*3</sup>, 349\*, 355, 394, 411, 414, 415\*, 512\*, 530, 531<sup>3</sup>, 532<sup>3</sup>, 533<sup>3</sup>, 535<sup>2</sup>, 538, 540<sup>\*3</sup>, 543<sup>\*3</sup>, 556<sup>\*3</sup>, 558\*

**Supporting courses** (choose one set) .....27-33

1. Minor in SSC discipline (18-21 hours) with electives at 300+in HUM or NS (9 hours)
2. Minor in NS discipline (18-22 hours) with electives at 300+in SSC or HUM (9 hours)
3. Minor in HUM discipline (18-24 hours) with electives at 300+ in SSC or NS (9 hours)

**Completion of a WGS concentration,**

**in addition to core** (choose one) .....9

1. *Women's/Gender History*: three WGST courses chosen from the following, at least one at the 500-level: 331<sup>2</sup>, 332<sup>3</sup>, 333<sup>\*2</sup>, 530, 531<sup>3</sup>, 532<sup>3</sup>, 533<sup>3</sup>
2. *Race, Gender, and Global Feminisms*: three WGST courses chosen from the following, at least one at the 500-level: 300\*, 333<sup>\*2</sup>, 342<sup>\*2,3</sup>, 343<sup>\*3</sup>, 345<sup>\*2</sup>, 346\*, 347<sup>\*2,3</sup>, 348<sup>\*3</sup>, 349\*, 380<sup>\*2,3</sup>, 512\*, 540<sup>\*3</sup>, 543<sup>\*3</sup>, 558\*, 571<sup>\*3</sup>
3. *Gender in Literature, Media, and the Arts*: three WGST courses chosen from the following, at least one at the 500-level: 325, 326, 342<sup>\*2,3</sup>, 373<sup>3</sup>, 380<sup>\*2,3</sup>, 381, 395<sup>2</sup>, 520, 522<sup>3</sup>, 571<sup>\*3</sup>
4. *Humanities Perspectives on Women/Gender*: three WGST courses chosen from the following, at least one at the 500-level: 203<sup>2</sup>, 303<sup>2</sup>, 325, 340, 342<sup>\*2,3</sup>, 345<sup>\*2</sup>, 360<sup>2</sup>, 373<sup>3</sup>, 380<sup>\*2,3</sup>, 381, 395, 520, 522<sup>3</sup>, 560, 571<sup>\*3</sup>

Minimum electives .....5-11

**Minimum total** .....121

1. Consult your WGS advisor about how topics and independent study courses count in your major (WGST 390, 391, 392<sup>3</sup>, 393<sup>3</sup>, 396, 397<sup>3</sup>, 398, 399<sup>3</sup>, 498<sup>3</sup>, 499<sup>3</sup>, 589, 590, 591, 592<sup>3</sup>, 593, 594<sup>3</sup>).
2. Fulfills general education requirement.
3. Fulfills WR requirement.
4. Courses which meet the departmental diversity requirement are marked by an asterisk (\*).

## Women's and Gender Studies

Bachelor of Science

**This program is pending approval. Consult the Department or the Arts and Sciences Advising Center regarding its availability.**

**Major:** WGST

**Degree:** BS

**Unit:** College of Arts and Sciences (AS)

**General Education** .....34

All degrees require the completion of the University-wide General Education Program; see page 14 of this catalog for the General Education requirements and the courses which fulfill them. Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

Arts and Sciences Programmatic Requirements

Gen 101 .....1

9 hours of electives in HUM or NS, 300+  
(incorporated into supporting courses requirement)

WR (incorporated into other degree requirements)

Women's and Gender Studies core courses

WGST 201<sup>2</sup> .....3

WGST 401 .....3

WGST 500<sup>3</sup> or WGST 501<sup>3</sup> .....3

**WGST Humanities electives:**

Choose 4, of which one must meet the departmental diversity requirement, unless met in your concentration, and one must be at the 400+ level .....12  
WGST 203<sup>2</sup>, 303<sup>2</sup>, 325, 326, 340, 342<sup>2,3</sup>, 345<sup>2</sup>, 346\*, 360<sup>2</sup>, 373<sup>3</sup>, 380<sup>3,2</sup>, 381, 395<sup>2</sup>, 520, 522<sup>3</sup>, 560, 571<sup>3</sup>

**WGST Social Science electives:**

Choose 4, of which one must meet the departmental diversity requirement, unless met in your concentration, and one must be at the 400+ level .....12  
WGST 300\*, 312, 313, 331<sup>2</sup>, 332<sup>3</sup>, 333<sup>2</sup>, 343\*, 347<sup>2,3</sup>, 348<sup>3</sup>, 349\*, 355, 394, 411, 414, 415\*, 512\*, 530, 531<sup>3</sup>, 532<sup>3</sup>, 533<sup>3</sup>, 535<sup>2</sup>, 538, 540<sup>3</sup>, 543<sup>3</sup>, 556<sup>3</sup>, 558\*

**Supporting courses** (choose one set) .....27-33

1. Minor in SSC discipline (18-21 hours) with electives at 300+ in HUM or NS (9 hours)
2. Minor in NS discipline (18-22 hours) with electives at 300+ in SSC or HUM (9 hours)
3. Minor in HUM discipline (18-24 hours) with electives at 300+ in SSC or NS (9 hours)

**Statistics, Research Methods, or Logic** (choose one) .....3

MATH 109, JA 326, MGMT 201, PAS 408, POLS 390,  
PSYC 301 or 302, SOC 301, ANTH 371, PHIL 311

**Completion of a WGS concentration,**

**in addition to core** (choose one) .....12

1. *Women's/Gender History*: four WGST courses chosen from the following, at least one at the 500-level: 331<sup>2</sup>, 332<sup>3</sup>, 333<sup>2</sup>, 530, 531<sup>3</sup>, 532<sup>3</sup>, 533<sup>3</sup>
2. *Race, Gender, and Global Feminisms*: four WGST courses chosen from the following, at least one at the 500-level: 300\*, 333<sup>2</sup>, 342<sup>2,3</sup>, 343<sup>3</sup>, 345<sup>2</sup>, 346\*, 347<sup>2,3</sup>, 348<sup>3</sup>, 349\*, 380<sup>2,3</sup>, 512\*, 540<sup>3</sup>, 543<sup>3</sup>, 558\*, 571<sup>3</sup>
3. *Gender, Health and the Body*: four WGST courses chosen from the following, at least one at the 400+ level: 312, 313, 349\*, 411, 415\*, 522<sup>3</sup>, 532<sup>3</sup>, 535<sup>2</sup>, 538, 540<sup>3</sup>
4. *Gender and Institutions*: four WGST courses chosen from the following, at least one at the 400+ level: 313, 332<sup>3</sup>, 340, 345<sup>2</sup>, 355, 414, 512\*, 556<sup>3</sup>

Minimum electives .....5-11

**Minimum total** .....121

1. Consult your WGS advisor about how topics and independent study courses count in your major (WGST 390, 391, 392<sup>3</sup>, 393<sup>3</sup>, 396, 397<sup>3</sup>, 398, 399<sup>3</sup>, 498<sup>3</sup>, 499<sup>3</sup>, 589, 590, 591, 592<sup>3</sup>, 593, 594<sup>3</sup>).
2. Fulfills general education requirement.
3. Fulfills WR requirement.
4. Courses which meet the departmental diversity requirement are marked by an asterisk (\*).

## Women's and Gender Studies

Minor in Women's and Gender Studies

**Minor:** WGST

**Unit:** College of Arts and Sciences (AS)

	<b>Semester Hours</b>	<b>Total</b>
Women's and Gender Studies 201 .....	3	
Electives in Women's and Gender Studies <sup>1</sup> .....	12	
6 hours must be in Humanities;		
6 hours must be in Social Sciences		
Women's and Gender Studies 500 .....	3	
<b>Minimum total:</b> .....		<b>18</b>

<sup>1</sup>Nine hours must be at 300-level or above.

## Minor in Race/Gender Studies

**Minor:** RGS

**Unit:** College of Arts and Sciences (AS)

The Minor in Race/Gender Studies is a joint program of the Department of Pan African Studies and the Women's and Gender Studies Department.

	<b>Semester Hours</b>	<b>Total</b>
Women's and Gender Studies 201 .....	3	
Pan African Studies 200 .....	3	
Women's and Gender Studies 347/Pan African Studies 364 .....	3	
Six hours chosen from the following: .....	6	
Women's and Gender Studies 340/Pan African Studies 340		
Women's and Gender Studies 343/Pan African Studies 392/ Sociology 392		
Women's and Gender Studies 346/Pan African Studies 385		
Women's and Gender Studies 348/Pan African Studies 332		
Women's and Gender 380/Pan African Studies 350/Theatre Arts 363		
Women's and Gender Studies 540/Pan African Studies 562		
Women's and Gender Studies 543/Pan African Studies 542 (Other courses may be substituted with advisor approval.)		
Elective in Pan African Studies at 300-level or above (may not be cross-listed with Women's and Gender Studies) .....		
Elective in Women's and Gender Studies at 300-level or above (may not be cross-listed with Pan African Studies) .....		
<b>Minimum Total</b> .....		<b>21</b>

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Course descriptions are no longer printed in the catalog. The title; number of credit hours; and any prerequisite, corequisite, or special note will be printed on the following pages. You can view the descriptions on the web via Ulink at [www.ulink.louisville.edu](http://www.ulink.louisville.edu), then select "course catalog" off the main menu. If you have trouble logging on to ULink or are not a UofL student, you may also view the descriptions at [www.louisville.edu](http://www.louisville.edu), select "current students", "online services", then "catalogs" (under the Registrar's Office Services heading).

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The codes for the academic unit offering the courses are in parentheses after the course subject. The codes are:

AS	College of Arts and Sciences
BU	College of Business and Public Administration
DE	Dental Hygiene Program
ED	College of Education and Human Development
MU	School of Music
NU	School of Nursing
SS	J. B. Speed School of Engineering

## General Education Program

### General Education Course Codes

Course code designations (WC, OC, M, S, SL, B, H, A, SB, CD1, CD2) appear in the course title (as an extension of the title) for the General Education courses. These codes are used for tracking purposes. They indicate the general education requirement(s) that the course fulfills. Some courses are assigned more than one code if they fulfill more than one requirement. The codes can be interpreted as meeting the following General Education Requirements (GERs):

### Internal General Education Codes

B	Built-in Lab/no separate lab course under Natural Sciences Requirement
A	"Arts" Course under Arts & Humanities Requirement
CD1	African, Asian/Pacific Islander, Hispanic, or Native American ethnicities
CD2	Other ethnic groups or minorities

### Council on Postsecondary Education General Education (CPE) Codes

WC	Written Communication
H	"Humanities" Course under Arts & Humanities Requirement
M	Mathematics
S	Natural Sciences
SL	Natural Sciences Course with Laboratory (B indicates both S & SL coding)
OC	Oral Communications
SB	Social & Behavioral Sciences



## Accounting

### **ACCT 201 Principles of Accounting I (3.0)**

Prerequisites: MATH 111 or 205 (or concurrently), ENGL 101 or 105.

### **ACCT 202 Principles of Accounting II (3.0)**

Prerequisite: Acct 201.

### **ACCT 205 Honors Principles of Accounting (3.0-6.0)**

Prerequisites: MATH 111 or 205 (or concurrently).

### **ACCT 301 Intermediate Accounting I (3.0)**

Prerequisites: ACCT 201-202 or ACCT 205, ECON 201-202 (or concurrently), Math 111 or equiv., Engl 102 or 105.

### **ACCT 302 Intermediate Accounting II (3.0)**

Prerequisite: Grade of C or better in ACCT 301.

### **ACCT 310 Introduction to Accounting Information Systems (3.0)**

Prerequisites: Acct 302 (or concurrently), ACCT 320 (or concurrently), CIS 300.

### **ACCT 315 Introduction to Taxation (3.0)**

Prerequisites: ACCT 202 or 205, CIS 100, ECON 201& 202, MGMT 201, ENGL 102 or 105.

### **ACCT 320 Managerial Cost Accounting (3.0)**

Prerequisites: ACCT 202 or 205, CIS 100.

### **ACCT 353 Accounting for Not-For-Profit Organizations (3.0)**

Prerequisite: ACCT 301 or faculty consent.

### **ACCT 397 Co-op in Accounting I (1.0-3.0)**

Prerequisite: Completion of ACCT 301, University GPA 2.5. Application to the co-op program and completion of orientation processes should be accomplished prior to employment. Students must be Accounting majors.

### **ACCT 398 Co-op in Accounting II (1.0-3.0)**

Prerequisite: ACCT 397 for no more than 2 credit hours, University GPA 2.5 and validation through CBPA Co-op Office.

### **ACCT 399 Co-op in Accounting III (3.0)**

Prerequisite: Permission of CBPA Co-op Office.

### **ACCT 401 Advanced Accounting Problems (3.0)**

Prerequisite: ACCT 302.

### **ACCT 411 Advanced Accounting Information Systems (3.0)**

Prerequisites: ACCT 302, 310, 315, 320.

### **ACCT 415 Advanced Taxation (3.0)**

Prerequisite: ACCT 302 or concurrently, ACCT 315.

### **ACCT 420 Advanced Managerial Cost Accounting (3.0)**

Prerequisite: ACCT 320.

### **ACCT 430 Auditing Theory and Practice (3.0)**

Prerequisite: ACCT 302.

### **ACCT 490 Special Topics in Accounting (1.0-3.0)**

Prerequisite: Senior standing.

### **ACCT 499 Independent Study in Accounting (1.0-3.0)**

Prerequisite: Written proposal must be sponsored by at least one faculty member and approved by the Director.

## Aerospace Studies

### **AIRS 101 Foundations of the U.S. Air Force I (1.0-2.0)**

Corequisite: Concurrent enrollment in AIRS 151.

### **AIRS 102 Foundations of U.S. Air Force II (1.0-2.0)**

Corequisite: Concurrent enrollment in AIRS 152.

### **AIRS 151 Air Force ROTC Leadership Laboratory (0.0)**

Prerequisite: AIRS 101

### **AIRS 152 Air Force ROTC Leadership Laboratory (0.0)**

Prerequisite: AIRS 151

### **AIRS 201 Evolution of U.S. Air Power I (1.0-2.0)**

Corequisite: Concurrent enrollment in AIRS 251.

### **AIRS 202 Evolution of U.S. Air Power II (1.0-2.0)**

Corequisite: Concurrent enrollment in AIRS 252.

### **AIRS 251 Air Force ROTC Leadership Laboratory (0.0)**

Prerequisite: AIRS 101

### **AIRS 252 Air Force ROTC Leadership Laboratory (0.0)**

Prerequisite: AIRS 251

### **AIRS 310 Independent Study (1.0-6.0)**

Prerequisites: AIRS 202 and AIRS 252 or permission of departmental chair.

### **AIRS 311 Air Force Leadership Studies I (3.0)**

Corequisite: Concurrent enrollment in AIRS 351.

Prerequisite: Consent of department chair.

### **AIRS 312 Air Force Leadership Studies II (3.0)**

Corequisite: Concurrent registration in AIRS 352.

Prerequisite: Consent of department chair.

### **AIRS 351 Air Force ROTC Leadership Laboratory (0.0)**

Prerequisite: AIRS 311

### **AIRS 352 Air Force ROTC Leadership Laboratory (0.0)**

Prerequisite: AIRS 312

### **AIRS 411 National Security Affairs I (3.0)**

Corequisite: Concurrent enrollment in AIRS 451.

Prerequisite: Consent of department chair.

### **AIRS 412 National Security Affairs II (3.0)**

Corequisite: Concurrent enrollment in AIRS 452.

Prerequisite: Consent of department chair.

### **AIRS 451 Air Force ROTC Leadership Laboratory (0.0)**

Prerequisite: AIRS 411

### **AIRS 452 Air Force ROTC Leadership Laboratory (0.0)**

Prerequisite: AIRS 451

## Anthropology

### **ANTH 201 Introduction to Cultural Anthropology - SBCD2 (3.0)**

### **ANTH 202 Introduction to Biological Anthropology - S (3.0)**

### **ANTH 203 Introduction to World Prehistory - SBCD2 (3.0)**

### **ANTH 204 Introduction to Archaeology - SBCD1 (3.0)**

### **ANTH 205 Music in World Cultures - SBCD1 (3.0)**

Note: Crosslisted with MUH 205.

### **ANTH 303 Human Origins (3.0)**

Prerequisite: ANTH 202 or consent of instructor.

### **ANTH 306 Race and Human Biodiversity (3.0)**

Prerequisite: ANTH 202 or 3 hours of Biology.

### **ANTH 307 Darwin (3.0)**

### **ANTH 308 Primates (3.0)**

### **ANTH 309 Sex, Gender and Culture (3.0)**

Note: Cross-listed with WGST 300.

### **ANTH 310 Race, Culture, Identity (3.0)**

Note: Cross-listed with PAS 368.

### **ANTH 313 Introduction to World Musics (3.0)**

Note: Cross-listed with MUH 313.

### **ANTH 314 Topics in Old and New World Archaeology (3.0)**

### **ANTH 315 The Anthropology of Europe (3.0)**

### **ANTH 316 Ancient Civilizations of Mesoamerica (3.0)**

### **ANTH 318 African-American Cultural Traditions (3.0)**

Note: Cross-listed with PAS 318.

### **ANTH 319 Cultures of the Middle East (3.0)**

### **ANTH 320 Indians of North America (3.0)**

### **ANTH 321 American Indian Women (3.0)**

### **ANTH 322 Archaeology of North America (3.0)**

### **ANTH 323 Cultures of Africa - CD1 (3.0)**

Note: Cross-listed with PAS 383.

### **ANTH 324 Iberian Anthropology (3.0)**

### **ANTH 325 Modern Latin American Societies (3.0)**

### **ANTH 326 Archaeology of the Ohio Valley (3.0)**

### **ANTH 327 Fundamentals of Skeletal Forensics (3.0)**

### **ANTH 328 Indigenous Worlds of South America (3.0)**

### **ANTH 330 Urban and Historic Archaeology (3.0)**

### **ANTH 331 Comparative Religious Systems (3.0)**

### **ANTH 333 Globalizing Inequalities (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **ANTH 334 Conflict, Law, and Culture (3.0)**

### **ANTH 335 Culture and Community (3.0)**

### **ANTH 337 Nationalism, Violence, and the State (3.0)**

### **ANTH 338 Anthropology of Refugees (3.0)**

### **ANTH 339 The Anthropology of Space and Place (3.0)**

### **ANTH 340 Human Rights (3.0)**

### **ANTH 346 Cities, Society and Culture (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **ANTH 350 Pestilences and Plagues: an Introduction to Epidemiology (3.0)**

### **ANTH 351 Medical Anthropology (3.0)**

### **ANTH 352 Food and Body Politic (3.0)**

### **ANTH 353 Cultural Resource Management (3.0)**

### **ANTH 361 Special Topics in Anthropology (3.0)**

### **ANTH 371 Ethnographic Methods (3.0)**

Prerequisites: ANTH 201 or consent of instructor.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **ANTH 373 Methods in Biological Anthropology -WR (3.0)**

Prerequisites: ANTH 202. Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **ANTH 376 Archaeological Theory and Methods (3.0)**

Prerequisite: ANTH 204 (formerly 305). Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ANTH 377 Field Methods in Archaeology (2.0-6.0)**  
Prerequisites: Permission of instructor.  
Note: Crosslisted with HIST 303.  
Note: Summer only.

**ANTH 385 The Concept of Culture in the Social Sciences and Humanities (3.0)**

**ANTH 401 Cooperative Internship in Anthropology (3.0)**

Prerequisite: See general statement on cooperative internships, page 25.

**ANTH 410 Advanced Skeletal Forensics (3.0)**

Prerequisite: ANTH 327.

**ANTH 448 History of Anthropology (3.0)**

Prerequisite: Minimum of 9 hours in Anthropology at the 300-level or above or consent of instructor.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ANTH 450 Readings and Research (1.0-3.0)**

Prerequisite: 9 hours in anthropology or related areas and department chair consent.

**ANTH 451 Independent Study (1.0-3.0)**

Prerequisite: Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.

**ANTH 546 Problems in Urban Anthropology (3.0)**

Prerequisite: ANTH 201 or consent of instructor.

**ANTH 548 Special Topics in Cultural Anthropology (3.0)**

Prerequisite: Consent of instructor.

**ANTH 549 Special Topics in Archaeology (3.0)**

Prerequisites: ANTH 202 and ANTH 204 (formerly 305).

**ART 321 Introduction to Sculpture (3.0)**

Prerequisite: ART 105, 106, 115, 116.

**ART 331 Introduction to Clay (3.0)**

Prerequisite: ART 105, 106, 115, and 116.

**ART 341 Introduction to Printmaking (3.0)**

Prerequisite: ART 105, 106, 115, 116.  
Note: Formerly ART 325.

**ART 351 Introduction to Photography (3.0)**

Prerequisite: ART 105, 106, 115, 116.

**ART 361 Drafting for Designers (3.0)**

Prerequisites: ART 105, 106, 115, 116 or faculty consent.

**ART 371 Introduction to Graphic Design (3.0)**

Prerequisite: ART 105, 106, 115, 116.

**ART 381 Introduction to Fiber/Mixed Media (3.0)**

Prerequisite: ART 105, 106, 115, 116 or faculty consent.

**ART 390 Special Problems in Studio Art (3.0)**

**ART 407 Art Education (Elementary and Middle School) (3.0)**

**ART 440 Cooperative Internship in Art (1.0-3.0)**

Prerequisite: See requirements for Cooperative Internship Program on page 25.

**ART 470 Advanced Rendering Techniques (3.0)**

Prerequisite: ART 361 or faculty consent.

**ART 501 Advanced Painting (3.0)**

Prerequisites: ART 301; BFA Candidacy or faculty consent.

**ART 502 Directed Study in Painting (1.0-3.0)**

Prerequisites: ART 301; BFA Candidacy or faculty consent.

**ART 503 Art Workshop (0.5-3.0)**

Prerequisite: Consent of instructor.

**ART 507 Art Education (3.0)**

Prerequisite: M.A.T. candidacy in elementary education or consent of instructor.

**ART 508 Art Education Methods and Research I (3.0)**

Prerequisite: Fine Arts majors only.

**ART 515 Advanced Figure Drawing (3.0)**

Prerequisites: ART 315; BFA Candidacy or faculty consent.

**ART 516 Advanced Drawing Concepts (3.0)**

Prerequisites: ART 315; BFA Candidacy or faculty consent.

**ART 517 Directed Study in Drawing (1.0-3.0)**

Prerequisites: ART 515 or 516; BFA Candidacy or faculty consent.

**ART 518 Art Education Methods and Research II (3.0)**

Prerequisite: Fine Arts majors only.

**ART 521 Practice of Sculpture (3.0)**

Prerequisites: ART 321; BFA Candidacy or faculty consent.  
Note: Formerly taught as Sculpture II.

**ART 522 Sculpture Strategies (3.0)**

Prerequisites: ART 321; BFA Candidacy or faculty consent.  
Note: Formerly taught as Advanced Sculpture.

**ART 523 Directed Study in Sculpture (1.0-3.0)**

Prerequisites: ART 521; BFA Candidacy or faculty consent.

**ART 531 Advanced Ceramics: Wheelthrowing (3.0)**

Prerequisites: ART 331, and BFA Candidacy or consent of instructor.  
Note: Formerly taught as Advanced Ceramics I.

**ART 532 Advanced Ceramics: Sculptural Forms (3.0)**

Prerequisites: ART 331 and BFA Candidacy or consent of the instructor.  
Note: Formerly taught as Advanced Ceramics II.

**ART 533 Clay Glazes and Firing (3.0)**

Prerequisites: ART 331; BFA Candidacy or faculty consent.

**ART 534 Directed Study in Ceramics (1.0-3.0)**

Prerequisites: ART 531; BFA Candidacy or faculty consent.

**ART 541 Studio Practice in Printmaking (3.0)**

Prerequisites: ART 341.  
Note: Formerly ART 525.

**ART 542 Digital Printmaking (3.0)**

Prerequisites: BFA Candidacy or faculty consent.  
Note: Formally ART 526.

**ART 543 Directed Study in Printmaking (1.0-3.0)**

Prerequisites: ART 541; BFA Candidacy or faculty consent.  
Note: Formerly ART 527.

**ART 551 Photography Techniques and Processes (3.0)**

Prerequisites: ART 351; BFA Candidacy or faculty consent.  
Note: Formerly ART 511.

**ART 552 Color Photography (3.0)**

Prerequisites: ART 511; BFA Candidacy or faculty consent.  
Note: Formerly ART 512.

**ART 553 Advanced Photography (3.0)**

Prerequisites: ART 552; BFA Candidacy or faculty consent.  
Note: Formerly ART 513.

**ART 554 Digital Imaging (3.0)**

Prerequisites: ART 551; BFA Candidacy or faculty consent.  
Note: Formerly ART 514.

**ART 555 Directed Study in Photography (1.0-3.0)**

Prerequisites: ART 511 or 513; BFA Candidacy or faculty consent.

**ART 561 Interior Architecture: Design Process (3.0)**

Prerequisites: ART 361, BFA Candidacy or faculty consent.  
Note: Formerly taught as Interior Design Studio I.

**ART 562 Interior Architecture: Spatial Concepts (3.0)**

Prerequisites: ART 561; BFA Candidacy or faculty consent.  
Note: Formerly taught as Interior Design Studio II.

**ART 563 Interior Architecture: Hospitality Projects (3.0)**

Prerequisites: ART 562; BFA Candidacy or faculty consent.  
Note: Formerly taught as Interior Design Studio IV.

**ART 564 Interior Architecture: Institutional Projects (3.0)**

Prerequisites: ART 563; BFA Candidacy or faculty consent.  
Note: Formerly taught as Interior Design Studio V.

**ART 565 Directed Projects in Interior Architecture (3.0)**

Prerequisites: Senior standing; BFA Candidacy or faculty consent.  
Note: Formerly taught as Interior Design Studio VI.

**ART 566 Interiors Construction (3.0)**

Prerequisites: ART 361; BFA Candidacy or faculty consent.

**ART 567 Textiles and Finishes for Interior Design (3.0)**

Prerequisites: ART 361; BFA Candidacy or faculty consent.

**ART 568 Building Systems (3.0)**

Prerequisites: ART 361; BFA Candidacy or faculty consent.  
Note: Formerly taught as Environmental Systems.

**ART 571 Letterforms I (3.0)**

Prerequisites: ART 371; BFA Candidacy or faculty consent.  
Note: Formerly taught as Graphic Design II.

**ART 572 Letterforms II (3.0)**

Prerequisites: ART 571; BFA Candidacy or faculty consent.  
Note: Formerly taught as Graphic Design III.

**ART 573 Identity Systems (3.0)**

Prerequisites: ART 572; BFA Candidacy or faculty consent.  
Note: Formerly taught as Graphic Design IV.

**ART 574 The Book Form (3.0)**

Prerequisites: ART 572; BFA Candidacy or faculty consent.  
Note: Formerly taught as Graphic Design V.

**ART 575 Packaging (3.0)**

Prerequisites: ART 572; BFA Candidacy or faculty consent.  
Note: Formerly taught as Graphic Design VI.

**ART 576 Web Site Design (3.0)**

Prerequisite: BFA Candidacy or faculty consent.

## Art (Creative)

**ART 101 Fundamentals of Drawing and Design (3.0)**

**ART 105 Foundation 2-D Design (3.0)**

**ART 106 Foundation 3-D Design (3.0)**

**ART 115 Foundation Drawing I (3.0)**

**ART 116 Foundation Drawing II (3.0)**  
Prerequisite: ART 115.

**ART 301 Introduction to Painting (3.0)**

Prerequisites: ART 105, 106, 115, 116.

**ART 315 Drawing and Composition (3.0)**

Prerequisite: ART 105, 106, 115, 116.  
Note: Formerly taught as Intermediate Drawing.

**ART 577 Advanced Web Site Design (3.0)**

Prerequisites: ART 576; BFA Candidacy or faculty consent.

**ART 578 Video (3.0)**

Prerequisites: ART 514; BFA Candidacy or faculty consent.

**ART 579 Directed Study in Graphic Design (1.0-3.0)**

Prerequisites: ART 571; BFA Candidacy or faculty consent.

**ART 581 Advanced Fiber/Surface Design (3.0)**

Prerequisites: ART 381; BFA Candidacy or faculty consent.  
Note: Formerly taught as Fiber: Surface.

**ART 582 Advanced Fiber/ Mixed Media Art (3.0)**

Prerequisites: ART 381; BFA Candidacy or faculty consent.  
Note: Formerly taught as Fiber: Construction.

**ART 583 Papermaking (3.0)**

Prerequisites: BFA Candidacy or faculty consent.

**ART 584 Directed Study in Fiber and Mixed Media Art (1.0-3.0)**

Prerequisites: ART 581 or 582; BFA Candidacy or faculty consent.

**ART 590 Special Problems in Studio Art (3.0)**

Prerequisites: BFA Candidacy; or faculty consent.

**ART 592 BFA Seminar (2.0)**

Prerequisite: BFA candidacy.

**ART 595 Independent Study (1.0-3.0)**

Prerequisite: Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.

**ART 596 Professional Development in Interior Architecture (1.0)**

Prerequisites: Senior standing, BFA candidacy or faculty consent.

**ART 597 Professional Development in Studio Arts (1.0)**

Prerequisites: Senior standing; BFA Candidacy or faculty consent.

**ART 598 Portfolio Development in Graphic Design (1.0)**

Prerequisites: Senior standing, BFA Candidacy or faculty consent.

Art History

**ARTH 203 Introduction to Art - A (3.0)**

**ARTH 250 Ancient Through Medieval Art - A (3.0)**

**ARTH 270 Renaissance Through Modern Art - A (3.0)**

**ARTH 341 African Art: A Survey - CD1 (3.0)**

Note: Crosslisted with PAS 381.

**ARTH 342 Selected Topics in Art History (3.0)**

Prerequisites: Junior standing or faculty consent.

**ARTH 343 African - American Art to 1920 - CD1 (3.0)**

Note: Crosslisted with PAS 310.

**ARTH 344 African-American Art 1920 to Present - CD1 (3.0)**

Note: Crosslisted with PAS 311.

**ARTH 345 History of Drawing and Prints (3.0)**

Prerequisite: ARTH 270 or faculty consent.

**ARTH 347 Historic Interiors (3.0)**

Prerequisites: ARTH 250 and 270.

**ARTH 351 Greek Art and Architecture (3.0)**

Prerequisite: ARTH 250 or faculty consent.

**ARTH 352 Aegean Art and Architecture (3.0)**

Prerequisite: ARTH 250 or faculty consent.

**ARTH 353 Roman Art and Architecture (3.0)**

Prerequisite: ARTH 250 or faculty consent.

**ARTH 362 Early Medieval Art and Architecture -WR (3.0)**

Prerequisite: ARTH 250 or faculty consent.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ARTH 363 Late Medieval Art and Architecture - WR (3.0)**

Prerequisite: ARTH 250 or faculty consent.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ARTH 371 Italian Renaissance Art I (3.0)**

Prerequisite: ARTH 250 or 270 or faculty consent.

**ARTH 372 Italian Renaissance Art II (3.0)**

Prerequisites: ARTH 250 or 270 or faculty consent.

**ARTH 373 Northern Renaissance Art (3.0)**

Prerequisites: ARTH 250 or 270 or faculty consent.

**ARTH 381 Baroque Art (3.0)**

Prerequisite: ARTH 270 or faculty consent.

**ARTH 382 Eighteenth Century Art and Architecture -WR (3.0)**

Prerequisite: ARTH 270 or faculty consent.

**ARTH 383 Renaissance and Baroque Architecture (3.0)**

Prerequisite: ARTH 270 or faculty consent.

**ARTH 391 Nineteenth-Century Art (3.0)**

Prerequisite: ARTH 270 or faculty consent.

**ARTH 392 Twentieth-Century Art (3.0)**

Prerequisite: ARTH 270 or faculty consent.

**ARTH 393 Nineteenth-Century Architecture (3.0)**

Prerequisite: ARTH 270 or faculty consent.

**ARTH 394 Twentieth-Century Architecture (3.0)**

Prerequisite: ARTH 270 or faculty consent.

**ARTH 395 American Art I (3.0)**

Prerequisite: ARTH 270 or faculty consent.

**ARTH 396 American Art II (3.0)**

Prerequisites: ARTH 270 or faculty consent.

**ARTH 397 History of Photography (3.0)**

Prerequisite: Junior Standing or faculty consent.

**ARTH 398 History of Landscape Architecture (3.0)**

Prerequisite: ARTH 250 and 270.

**ARTH 440 Cooperative Internship in Art History (1.0-3.0)**

Prerequisite: See requirements for Cooperative Internship Program on page 25.

**ARTH 540 Approaches to Study of Art History - WR (3.0)**

Prerequisite: One undergraduate art history survey course or consent of instructor.

Note: Approved for the Arts and Sciences upper-level requirements in written communication (WR).

**ARTH 541 Modern Perspectives in the Visual Arts- WR (3.0)**

Prerequisites: Graduate standing or permission of the instructor.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ARTH 542 Special Topics (3.0)**

**ARTH 543 Independent Study (1.0-3.0)**

Prerequisite: Consent of instructor.

**ARTH 544 Pan-African Art: Form and Content (3.0)**

Prerequisite: Consent of instructor.

Note: Cross-listed with PAS 581.

**ARTH 547 Museum Methods I (3.0)**

Prerequisite: Consent of instructor.

**ARTH 548 Museum Methods II (3.0)**

Prerequisites: Consent of instructor.

**ARTH 551 Studies in Ancient Art (3.0)**

Prerequisites: ARTH 351, ARTH 352, ARTH 353, or consent of instructor.

**ARTH 552 Ancient Painting (3.0)**

Prerequisite: ARTH 351, ARTH 352, ARTH 353, or consent of instructor.

**ARTH 553 Ancient Cities (3.0)**

Prerequisite: ARTH 351, ARTH 352, ARTH 353, or consent of instructor.

**ARTH 561 Studies in Medieval Art (3.0)**

Prerequisite: One 300-level course in Medieval art or architecture, or consent of instructor.

**ARTH 562 Medieval Architecture (3.0)**

Prerequisite: One 300-level course in Medieval art or architecture, or consent of instructor.

**ARTH 563 Medieval Figural Arts (3.0)**

Prerequisite: One 300-level course in Medieval art or architecture, or consent of instructor.

**ARTH 571 Studies in Renaissance Art (3.0)**

Prerequisite: One 300-level course in Renaissance art or consent of instructor.

**ARTH 574 History of Prints (3.0)**

Prerequisite: 12 hours of art history or consent of instructor.

**ARTH 581 Studies in Baroque Art (3.0)**

Prerequisites: ARTH 381, ARTH 382, ARTH 383, or consent of instructor.

**ARTH 591 Studies in Modern Art (3.0)**

Prerequisite: One 300-level course in Modern art or consent of instructor.

**ARTH 593 Studies in Modern Architecture (3.0)**

Prerequisite: One 300-level course in Modern architecture or consent of instructor.

**ARTH 595 Studies in American Art (3.0)**

Prerequisite: One 300-level course in American art or architecture or consent of instructor.

**ARTH 597 Studies in Photographic History (3.0)**

Prerequisite: Consent of instructor.

**ARTH 598 Studies in the History of Landscape Architecture (3.0)**

Prerequisite: Consent of instructor.

**ARTH 599 Urban Design (3.0)**

Prerequisite: One 300-level course in architectural history or consent of instructor.

American Sign Language

**ASL 101 American Sign Language I (3.0)**

**ASL 102 American Sign Language II (3.0)**

Prerequisites: ASL 101 or permission of instructor.

**ASL 201 American Sign Language III (3.0)**

Prerequisites: ASL 102 or permission of instructor.

**ASL 202 American Sign Language IV (3.0)**

Prerequisite: ASL 201 or permission of instructor.

**ASL 213 Special Topics in American Sign Language (1.0-3.0)**

Prerequisite: Permission of instructor.

**ASL 301 American Sign Language V (3.0)**

Prerequisites: ASL 202 or permission of instructor.

**ASL 302 American Sign Language VI (3.0)**

Prerequisites: ASL 301 or permission of instructor.

## Bioengineering

**BE 497 Bioengineering Design Project (3.0)**

Prerequisites: 4th year status in engineering program; BIOL 465 or equivalent.

**BE 697 Master of Engineering Thesis in Bioengineering (1.0-6.0)**

Prerequisites: Graduate/Professional standing in bioengineering and BIOL 465 or equivalent.

## Biology

**BIOL 102 Introduction to Biological Systems - S (3.0)**

Prerequisite: Should be taken concurrently with BIOL 104.

**BIOL 104 Laboratory for Introduction to Biological Systems - SL (1.0)**

Prerequisite: Completion of or concurrent enrollment in BIOL 102 or equivalent.

**BIOL 240 Unity of Life - S (3.0)**

**BIOL 242 Diversity of Life - S (3.0)**

**BIOL 244 Principles of Biology Laboratory - SL (2.0)**

Prerequisites: successful completion of BIOL 240 and completion or concurrent enrollment in BIOL 242.

**BIOL 257 Introduction to Microbiology - S (3.0)**

Prerequisites: BIOL 102 or equivalent required and CHEM 105 strongly recommended.

**BIOL 258 Introduction to Microbiology Laboratory - SL (1.0)**

Prerequisites: BIOL 257, BIOL 357 or concurrent enrollment in BIOL 257.

**BIOL 260 Human Anatomy & Physiology I (3.0)**

Prerequisites: Biology 102 or equivalent with a grade of C or better and completion of CHEM 101 or 105 with a grade of C or better.

**BIOL 261 Human Anatomy & Physiology II (3.0)**

Prerequisites: Biology 260 with a grade of C or better.

**BIOL 262 Human Anatomy & Physiology Lab (1.0)**

Prerequisites: Completion of BIOL 260 with a grade of C or better and concurrent enrollment in BIOL 261.

**BIOL 263 Environmental Biology - S (3.0)**

**BIOL 300 Classification and Distribution of Plants (3.0)**

Prerequisites: BIOL 240 and BIOL 242 and BIOL 244.

**BIOL 301 Introduction to Ecology (3.0)**

Prerequisites: BIOL 240 and BIOL 242 and BIOL 244.

**BIOL 302 Introduction to Ecology: Laboratory (2.0)**

Prerequisite: Successful completion of or concurrent enrollment in BIOL 301.

**BIOL 305 Invertebrate Zoology (4.0)**

Prerequisites: BIOL 240 and BIOL 242 and BIOL 244.

**BIOL 310 Animal Behavior (3.0)**

Prerequisites: BIOL 240 and BIOL 242 and BIOL 244.

**BIOL 325 Plant Morphology -WR (4.0)**

Prerequisites: BIOL 240 and BIOL 242 and BIOL 244.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**BIOL 329 Cellular and Molecular Biology (3.0)**

Prerequisites: BIOL 240 and 242 and CHEM 201.

**BIOL 330 Genetics and Molecular Biology (3.0)**

Prerequisite: BIOL 329.

**BIOL 331 Genetics and Molecular Biology: Laboratory (2.0)**

Prerequisite: Successful completion of or concurrent enrollment in BIOL 330.

**BIOL 336 Plant Anatomy (4.0)**

Prerequisites: BIOL 240 and BIOL 242 and BIOL 244.

**BIOL 347 Comparative Vertebrate Anatomy (4.0)**

Prerequisites: BIOL 240 and BIOL 242 and BIOL 244.

**BIOL 348 Animal Development - WR (3.0)**

Prerequisite: BIOL 329 and BIOL 330.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Spring only.

**BIOL 350 Biostatistics (3.0)**

Prerequisites: Math 180 or Math 205.

**BIOL 357 General Microbiology (3.0)**

Prerequisites: BIOL 329 and BIOL 330.

**BIOL 358 Microbiology Laboratory (1.0)**

Prerequisites: Completion of or concurrent enrollment in BIOL 357 or BIOL 485.

**BIOL 360 Human Anatomy and Physiology for Non-Biology Majors (3.0)**

Prerequisites: BIOL 102 and BIOL 104 or BIOL 240 and BIOL 244 or equivalent.

**BIOL 372 Evolutionary Ecology of Disease (3.0)**

Prerequisites: BIOL 240, BIOL 242, or consent of instructor.

**BIOL 376 Medical Parasitology (3.0)**

Prerequisites: BIOL 240 and BIOL 242 and BIOL 244.

**BIOL 382 Introductory Insect Biology (3.0)**

Prerequisites: BIOL 240 and BIOL 242 and BIOL 244.

**BIOL 389 Undergraduate Seminar (1.0)**

**BIOL 390 Special Topics (1.0-4.0)**

Prerequisite: Biology core or faculty consent.

**BIOL 391 Special Topics in Biology - WR (1.0-4.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**BIOL 395 Basic Pharmacology (3.0)**

Prerequisites: consent of instructor. Note: Crosslisted with NURS 395.

**BIOL 396 Preview to Dentistry (3.0)**

Prerequisites: BIOL 329 and BIOL 330 or equivalent and consent of instructor.

**BIOL 400 Histology (4.0)**

Prerequisite: BIOL 329 or consent of instructor.

Note: Fall only.

**BIOL 404 Undergraduate Research (1.0-3.0)**

Prerequisite: Faculty and chair consent. Minimum cumulative grade point average of 3.0 and completion of biology core.

Note: No more than 6 hours of Undergraduate Research 404, 405, OR 406 WR or Independent Study 501, 502, or 504 WR may be used to meet the minimum in Biology for the B.A. or B.S.

**BIOL 405 Undergraduate Research (1.0-3.0)**

Refer to: BIOL 404

**BIOL 406 Undergraduate Research - WR (1.0-3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR). Prerequisites: Faculty and chair consent. Minimum cumulative grade point average of 3.0 and completion of biology core. Refer to: BIOL 404.

**BIOL 409 Evolutionary Biology (3.0)**

Prerequisites: BIOL 240 and BIOL 242 and BIOL 244 and BIOL 301 and BIOL 302 or consent of instructor.

**BIOL 410 Applied Ecology - WR (3.0)**

Prerequisite: BIOL 301-302. Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**BIOL 415 Biology of the Cell (3.0)**

Prerequisites: BIOL 329 & BIOL 330. Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**BIOL 416 Biotechnology Methods - WR (4.0)**

Prerequisites: BIOL 330 and BIOL 331 and CHEM 344 and consent of instructor.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**BIOL 420 Marine Biology (3.0)**

Prerequisites: BIOL 240 and BIOL 242 and BIOL 244 and BIOL 301 and BIOL 302.

**BIOL 440 Global Change Ecology (3.0)**

Prerequisites: BIOL 301 or GEOS 363 or GEOS 365.

**BIOL 465 Principles of Physiology (3.0)**

Prerequisites: BIOL 329 or consent of instructor.

**BIOL 475 Laboratory Experiments in Physiology - WR (3.0)**

Prerequisite: Biology 465 or concurrent enrollment.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**BIOL 485 Bacteriology (3.0)**

Prerequisites: BIOL 329 and BIOL 330 required. BIOL 357 and CHEM 341 recommended.

**BIOL 500 Plant Growth and Development (3.0)**

Prerequisites: BIOL 240 and BIOL 242 and BIOL 244 and BIOL 329 or consent of instructor.

**BIOL 501 Independent Study (1.0-3.0)**

Prerequisites: Faculty and chair consent. Minimum cumulative grade point average of 3.0, and completion of biology core.

Note: No more than 6 hours of Independent Study 501, 502 or 504 WR or Undergraduate Research 404, 405 or 406 WR may be used to meet the minimum in Biology for the B.A. or B.S.

**BIOL 502 Independent Study (1.0-3.0)**

Refer to: BIOL 501.

**BIOL 504 Independent Study -WR (1.0-3.0)**

Prerequisites: Faculty and chair consent. Minimum cumulative grade point average of 3.0, and completion of the biology core.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Refer to: BIOL 501.

**BIOL 506 Freshwater Invertebrates (4.0)**

Prerequisite: Consent of instructor. Note: Credit may not be earned in both 506 and 606.

**BIOL 507 Aquatic Entomology (3.0)**  
Prerequisite: BIOL 382 or BIOL 522.  
Note: Credit may not be earned in both 507 and 607.

**BIOL 509 Methods and Principles of Systematic Zoology (3.0)**  
Prerequisite: BIOL 242 and BIOL 301.  
Note: Credit may not be earned in both 509 and 609.

**BIOL 510 Behavioral Ecology (3.0)**  
Prerequisite: BIOL 301.  
Note: Credit may not be earned for both 510 and 610.

**BIOL 511 Behavioral Endocrinology (3.0)**  
Prerequisites: BIOL 240, BIOL 242, BIOL 244, BIOL 301-302, BIOL 329, BIOL 330-331.  
Note: Credit may not be earned in both 511 and 611.

**BIOL 512 Endocrinology (3.0)**  
Prerequisite: BIOL 465.  
Note: Credit may not be earned in both 512 and 612.

**BIOL 513 Comparative Physiology (3.0)**  
Prerequisite: BIOL 347 and BIOL 465.  
Note: Credit may not be earned in both 513 and 613.

**BIOL 514 Ornithology (3.0)**  
Prerequisite: BIOL 301 and BIOL 302 or consent of instructor.  
Note: Credit may not be earned in both 514 and 614.

**BIOL 515 Environmental Physiology (3.0)**  
Prerequisites: BIOL 465 or consent of instructor.  
Note: Credit may not be earned in both 515 and 615.

**BIOL 516 Genetic Manipulations With Bacteria and Fungi (4.0)**  
Prerequisites: BIOL 330 and BIOL 331 or equivalent experience and consent of instructor. Recommended: BIOL 357 or 485, BIOL 358, and BIOL 542 or BIOL 642.  
Note: Credit may not be earned in both 516 and 616.

**BIOL 519 Ichthyology (3.0)**  
Prerequisite: BIOL 301.

**BIOL 522 Aquatic Ecology (4.0)**  
Prerequisite: BIOL 301.  
Note: Credit may not be earned in both 522 and 622.

**BIOL 523 Plant Physiology (4.0)**  
Prerequisites BIOL 240 and BIOL 242 and BIOL 244.  
Note: Credit may not be earned in both 523 and 623.

**BIOL 524 Stream Ecology (4.0)**  
Prerequisites: BIOL 301 or permission of instructor.  
Note: Credit may not be earned in both 524 and 624.

**BIOL 529 Mammalogy (3.0)**  
Prerequisites: BIOL 301 and BIOL 302 or consent of instructor.  
Note: Credit may not be earned in both 529 and 639.

**BIOL 530 Developmental Neurobiology - WR (3.0)**  
Prerequisites: BIOL 329 and BIOL 330.  
Note: Approved for the Arts & Sciences upper-level requirement in written communication.

Note: Credit may not be earned for both 530 and 630.

**BIOL 539 Medical Entomology (3.0)**  
Prerequisite: BIOL 382 or consent of instructor.  
Note: Credit may not be earned in both 539 and 639.

**BIOL 540 Intermediary Metabolism (3.0)**  
Prerequisites: BIOL 329 and CHEM 342.  
Note: Credit may not be earned in both 540 and 640.

**BIOL 542 Gene Structure and Function -WR (3.0)**  
Prerequisite: BIOL 330 or equivalent.  
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).  
Note: Credit may not be earned for both 542 and 642.

**BIOL 544 Fisheries Management (4.0)**  
Prerequisite: BIOL 301 and 302.  
Note: Credit may not be earned in both 544 and 644.

**BIOL 550 Biostatistics (3.0)**  
Prerequisite: MATH 180 or MATH 205; an introductory course in statistics; or consent of instructor.  
Note: Credit may not be earned in both 550 and 650.

**BIOL 552 Evolutionary Medicine (3.0)**  
Prerequisites: BIOL 240 and BIOL 242 and BIOL 372 or BIOL 409 or equivalent.  
Note: Credit may not be earned in both 552 and 652.

**BIOL 555 Microbial Ecology (3.0)**  
Prerequisite: BIOL 485.  
Note: Credit may not be earned in both 555 and 655.

**BIOL 557 Industrial and Food Microbiology (3.0)**  
Prerequisite: BIOL 357 and BIOL 485 or consent of instructor.  
Note: Credit may not be earned in both 557 and 657.

**BIOL 560 Ecology of Urban and Suburban Landscapes (3.0)**  
Prerequisites: BIOL 301 or GEOS 365.

**BIOL 562 Ecosystems Ecology (3.0)**  
Prerequisite: BIOL 301; an advanced ecology course recommended.  
Note: Credit may not be earned in both 562 and 662.

**BIOL 563 Population and Community Ecology (3.0)**  
Prerequisite: BIOL 301.  
Note: Credit may not be earned in both 563 and 663.

**BIOL 567 Conservation Biology (3.0)**  
Prerequisites: BIOL 240 and BIOL 242 and BIOL 244 and BIOL 301.  
Note: Credit may not be earned for both 567 and 667.

**BIOL 569 Evolution (3.0)**  
Prerequisites: BIOL 240 and BIOL 242 and BIOL 244 and BIOL 301.  
Note: Credit may not be earned in both 569 and 669.

**BIOL 571 Selected Topics (1.0-4.0)**

**BIOL 572 Selected Topics - Laboratory (1.0-4.0)**

**BIOL 575 Molecular Evolution (3.0)**  
Prerequisites: BIOL 329, BIOL 330, BIOL 409, CHEM 342 or consent of instructor.  
Note: Credit may not be earned for both 575 and 675.

**BIOL 584 Interdisciplinary Frameworks in Environmental Science and Technology (3.0)**  
Note: Credit may not be earned in both 584 and 684.

**BIOL 591 Biology for Teachers I (3.0)**  
Prerequisites: Experience in teaching biology or biological principles in elementary, middle or secondary school.

**BIOL 592 Biology for Teachers II (3.0)**  
Prerequisites: Experience in teaching biology or biological principles in elementary, middle or secondary school.

## Campus Culture / Business

**CAMP 100 Campus Culture/Business Students (1.0)**  
Prerequisite: Admission to College of Business and Public Administration.

## Computer Engineering and Computer Science

*Computer Engineering and Computer Science courses are open only to students who have been admitted to the Computer Engineering and Computer Science program, or with permission of the Computer Engineering and Computer Science Department Chair.*

**CECS 120 Introduction to Structured Programming (2.0)**  
**CECS 121 Program Design in C (1.0)**

**CECS 230 Introduction to Computer Science and Engineering (3.0)**  
Prerequisite: CECS 121 or equivalent.

**CECS 288 Computer Engineering and Computer Science Cooperative Education Seminar (0.0)**  
Prerequisites: Eligibility for admission to the CECS Department.

**CECS 289 Computer Engineering and Computer Science Cooperative Education I (2.0)**  
Prerequisites: CECS 288, admission to academic department, and good standing within Speed School.

**CECS 302 Information Structures (3.0)**  
Prerequisites: CECS 230 and CECS 303 or permission of the dept chair.  
Note: Enrollment restricted to CECS students only.

**CECS 303 Program Design in C++ (1.0)**  
Prerequisite: CECS 121 or equivalent.

**CECS 306 Selected Programming Languages (1.0)**  
Prerequisite: CECS 121.

**CECS 310 Discrete Structures (3.0)**  
Prerequisite: Third-year standing.

**CECS 311 Ethics, Social, and Legal Aspects on the Electronic Frontier (3.0)**  
Prerequisite: Third Year standing.

**CECS 312 Fundamentals of Digital Electronics (2.0)**  
Prerequisite: ECE 210 and 211.

**CECS 335 Design of File Structures (3.0)**  
Prerequisite: CECS 302 and knowledge of C programming.

**CECS 389 Computer Engineering and Computer Science Cooperative Education II (2.0)**  
Prerequisites: CECS 288 and CECS 289.

**CECS 393 Independent Study in Computer Engineering and Computer Science (1.0-6.0)**

**CECS 412 Computer Interfacing (3.0)**  
Prerequisite: CECS 312 or faculty consent.  
Note: Cross-listed with ECE 412.

**CECS 420 Design of Operating Systems (3.0)**  
Prerequisite: CECS 335.

**CECS 440 Object Oriented Design (3.0)**  
Prerequisite: CECS 335.

**CECS 489 Computer Engineering and Computer Science Cooperative Education III (2.0)**  
Prerequisites: CECS 288 and CECS 389.

**CECS 502 Seminar in Computer Engineering and Computer Science (1.0)**  
Prerequisite: Fourth-year standing in CECS.

**CECS 503 Survey of Computer Engineering and Computer Science (3.0)**  
Prerequisites: Graduate Standing.

**CECS 504 Automata Theory (3.0)**  
Prerequisite: Discrete Structures (CECS 310).

**CECS 506 Modeling and Analysis of Engineering Systems (3.0)**

Prerequisite: Linear Algebra for Engineering (CEE 330).

**CECS 508 Numerical Analysis I (3.0)**

Prerequisite: Engineering Computation (CEE 307) and Linear Algebra for Engineering (CEE 330).

**CECS 510 Computer Design (3.0)**

Prerequisite: Logic Design (ECE 210) and assembly language experience as covered by Computer Interfacing (ECE/CECS 412), Introduction to Computer Science and Engineering, CECS 301, or experience acceptable to the instructor.  
Corequisite: ECE 511.  
Note: Cross-listed with ECE 510.

**CECS 516 Fundamentals of Computer Communications and Networks (3.0)**

Prerequisite: Probability and Statistics for Engineers (IE 360), and Computer Interfacing (CECS 412).  
Note: Cross-listed with ECE 518.

**CECS 522 Performance Evaluation of Computer Systems (3.0)**

Prerequisite: Probability & Statistics for Engineers (IE 360) and Design of Operating Systems (CECS 420).

**CECS 525 Microcomputer Design (4.0)**

Prerequisite: Computer Interfacing (ECE/CECS 412) or consent of instructor.  
Note: Cross-listed with ECE 516.

**CECS 530 Design of Compilers (3.0)**

Prerequisite: Design of Operating Systems (CECS 420).

**CECS 535 Introduction to Databases (3.0)**

Prerequisites: CECS 335.

**CECS 540 Object Oriented Information Technology (3.0)**

Prerequisites: Graduate Standing.

**CECS 542 Computer Control and Real Time Programming (3.0)**

Prerequisites: ECE 252, CECS 310, EAC 205 and consent of instructor.

**CECS 545 Artificial Intelligence (3.0)**

Prerequisite: Design of File Structures (CECS 335) and Use of Selected Programming Languages: LISP (CECS 303).

**CECS 546 Knowledge Engineering and Expert Systems (3.0)**

Prerequisites: CECS 302.

**CECS 550 Software Engineering (3.0)**

Prerequisite: Design of Operating Systems (CECS 420) and Object Oriented Design (CECS 440) or consent of instructor.

**CECS 563 Experimental Design in Engineering (3.0)**

Prerequisite: Probability & Statistics for Engineers (IE 360).

**CECS 564 Introduction to Cryptology (3.0)**

Prerequisites: CECS 310 and IE 360.

**CECS 566 Information Security (3.0)**

Prerequisites: CECS 311 and CECS 420.

**CECS 590 Special Topics in Computer Engineering and Computer Science (1.0-6.0)**

**CECS 593 Independent Study in Computer Engineering and Computer Science (1.0-6.0)**

Note: Chair Approval is required.

**CECS 602 Graduate Internship in Computer Engineering and Computer Science (2.0)**

Prerequisites: Student must be admitted for Graduate Study, and a sponsored member of the Graduate Intern Program.

**CECS 608 Advanced Design of Operating Systems (3.0)**

Prerequisite: Design of Operating Systems (CECS 420).

**CECS 609 Hypertext and Multimedia Processing (3.0)**

Prerequisite: Design of File Structures (CECS 335), or consent of instructor.

**CECS 611 Computer Architecture (3.0)**

Prerequisite: CECS 510.  
Note: Cross-listed with ECE 611.

**CECS 616 Communication and Network Architectures (3.0)**

Prerequisite: CECS 516 or equivalent.

**CECS 617 Mobile Computing (3.0)**

Prerequisites: CECS 516.

**CECS 619 Design and Analysis of Computer Algorithms (3.0)**

Prerequisite: Design of File Structures (CECS 335) and Discrete Structures (CECS 410).

**CECS 622 Simulation and Modeling of Discrete Systems (3.0)**

Prerequisite: Probability & Statistics for Engineers (IE 360).

**CECS 624 Advanced Simulation (3.0)**

Prerequisite: CECS 622.

**CECS 627 Digital Image Processing (3.0)**

Prerequisites: CECS 506 or ECE 420 or faculty consent.

**CECS 628 Computer Graphics (3.0)**

Prerequisite: Elementary Linear Algebra Methods in Engineering (CECS 335).

**CECS 629 Distributed System Design (3.0)**

Prerequisite: Design of Operating Systems (CECS 420) and CECS 516.

**CECS 630 Advanced Databases and Data Warehousing (3.0)**

Prerequisites: CECS 535.

**CECS 632 Data Mining (3.0)**

Prerequisites: IE 360, CECS 535.

**CECS 633 Computer Vision (3.0)**

Prerequisite: CECS 627, or ECE 618, or consent of instructor.

**CECS 640 Internet Application Design and Development (3.0)**

Prerequisites: CECS 516 and basic knowledge of Java and object-oriented design.

**CECS 641 Introduction to Medical Imaging (3.0)**

Prerequisites: ECE 520 or equivalent.  
Note: Crosslisted with ECE 641.

**CECS 643 Introduction to Biomedical Computing (3.0)**

Prerequisites: Graduate Standing.  
Note: Crosslisted with ECE 643.

**CECS 645 Advanced Artificial Intelligence (3.0)**

Prerequisite: CECS 545.

**CECS 650 Advanced Software Engineering (3.0)**

Prerequisite: CECS 550.

**CECS 660 Introduction to Bioinformatics (3.0)**

Prerequisites: CECS 302 or CECS 503.

**CECS 690 M.S. Thesis in Computer Science (1.0-6.0)**

**CECS 693 Independent Study in Computer Engineering and Computer Science (1.0-6.0)**

Note: Chair Approval is required.

**CECS 694 Special Topics in Computer Engineering and Computer Science (1.0-6.0)**

**CECS 695 Computer Engineering and Computer Science Seminar (1.0)**

**CECS 696 CECS Project (3.0)**

Prerequisites: Graduate Standing in CECS.

**CECS 697 Master of Engineering Thesis in Computer Engineering and Computer Science (1.0-8.0)**

Prerequisite: Graduate/Professional standing.

Note: This course may be repeated for a maximum total of eight semester hours.

**Civil and Environmental Engineering**

**CEE 201 Programming for CEE (2.0)**

Prerequisite: At least two years of high school algebra.

**CEE 205 Mechanics I: Statics (3.0)**

Prerequisites: EAC 101, PHYS 298 and 295.

**CEE 254 Mechanics of Solids (3.0)**

Prerequisite: CEE 205.

**CEE 255 Mechanics of Materials Laboratory (1.0)**

Corequisite: CEE 254.

**CEE 260 Civil Engineering Field Measurements (2.0)**

Prerequisite: Restricted to Civil Engineering Majors.  
Co-Requisite: Concurrent registration in CEE 261 Civil Engineering Field Measurements Laboratory.

**CEE 261 Civil Engineering Field Measurements Laboratory (1.0)**

Prerequisite: Restricted to Civil Engineering Majors.  
Corequisite: Concurrent registration required in CEE 260 Field Measurements.

**CEE 288 Civil and Environmental Engineering Cooperative Education Seminar (0.0)**

Prerequisite: Eligibility for admission to the CEE Department.

**CEE 289 Civil and Environmental Engineering Cooperative Education I (2.0)**

Prerequisites: CEE 288, admission to academic department, and good standing within Speed School.

**CEE 307 Numerical Methods for Engineering (2.0)**

Prerequisite: EAC 205.

**CEE 309 Introduction to Environmental Engineering (3.0)**

Prerequisites: CHEM 201, PHYS 298 and 299.

**CEE 320 Fundamentals of Structural Analysis (3.0)**

Prerequisites: CEE 201, 254, and EAC 102.

**CEE 330 Linear Algebra for Engineering (2.0)**

Prerequisite: EAC 205.

**CEE 370 Engineering Hydraulics (3.0)**

Prerequisites: ME 206, first-year Professional School standing and concurrent registration in CEE 371.

**CEE 371 Engineering Hydraulics Lab (1.0)**

Prerequisites: ME 206, first-year Professional School standing, and concurrent registration in CEE 370.

**CEE 380 Introduction to Civil & Environmental Engineering Capstone Design (1.0)**

Prerequisite: Admission to the Department of Civil and Environmental Engineering.

**CEE 389 Civil and Environmental Engineering Cooperative Education II (2.0)**

Prerequisites: CEE 288 and CEE 289.

**CEE 401 Civil Engineering Seminar on Professional Practices (2.0)**

**CEE 402 Professional Seminar in Civil Engineering (0.0)**

Prerequisite: Second-year professional school standing.

**CEE 420 Matrix Structural Analysis (3.0)**

Prerequisites: CEE 320 and EAC 205.

**CEE 421 Fundamentals of Concrete Design (3.0)**

Prerequisite: CEE 420.

**CEE 422 Fundamentals of Steel Design (3.0)**

Prerequisite: CEE 420.

**CEE 450 Geomechanics (3.0)**

Prerequisites: CEE 254, CEE 370,371, GEOS 301, and first-year professional school standing.

- CEE 451 Geomechanics Laboratory (1.0)**  
Prerequisite: CEE 450 Geomechanics (Concurrent).
- CEE 452 Foundation Engineering (3.0)**  
Prerequisite: Geomechanics (CEE 450).
- CEE 460 Transportation Systems Engineering (3.0)**  
Prerequisites: CEE 260 and first-year professional school standing.
- CEE 470 Surface Water Hydrology (3.0)**  
Prerequisites: CEE 309 and 370.
- CEE 471 Water Supply and Sewerage (3.0)**  
Prerequisite: CEE 370.
- CEE 480 Civil & Environmental Engineering Capstone Design - BSCE (3.0)**  
Prerequisite: CEE 380.
- CEE 489 Civil Engineering Cooperative Education III (2.0)**  
Prerequisites: CEE 288 and CEE 389.
- CEE 503 Fundamentals of Engineering Exam Review (2.0)**  
Prerequisite: 4th Year Standing.
- CEE 504 Fundamentals of Engineering Exam I (0.0)**  
Prerequisites: Fifth-year or graduate standing or permission of instructor.
- CEE 505 Fundamentals of Engineering Exam II (0.0)**  
Prerequisites: CEE 504 and fifth-year or graduate standing or permission of instructor.
- CEE 509 Environmental Processes and Systems (3.0)**  
Prerequisites: CEE 309 or (CHE 251 and 305 and 401) or permission of instructor.  
Note: Cross-listed with CHE 509.
- CEE 522 Fundamentals of Prestressed Concrete (3.0)**  
Prerequisite: Matrix Structural Analysis (CEE 420) and Fundamentals of Concrete Design (CEE 421).
- CEE 530 Construction Materials (3.0)**  
Prerequisites: CEE 254, CEE 255 and CEE 450.
- CEE 532 Experimental Stress Analysis (3.0)**  
Prerequisite: Construction Materials (CEE 530).
- CEE 534 Industrial Waste Management (3.0)**  
Prerequisite: Consent of instructor.  
Note: Cross-listed with CHE 534.
- CEE 535 Solid Waste Management (3.0)**  
Prerequisite: Consent of instructor.
- CEE 552 Earth Pressures and Retaining Structures (3.0)**  
Prerequisite: Geomechanics (CEE 450).
- CEE 560 Traffic Engineering (3.0)**  
Prerequisite: CEE 360 or 460.
- CEE 561 Environmental Analysis of Transportation Systems I (3.0)**  
Prerequisite: CEE 360 or 460.
- CEE 562 Geometric Design of Highways (3.0)**  
Prerequisite: CEE 560.
- CEE 570 Applied Hydraulics (3.0)**  
Prerequisite: CEE 572 Open Channel Hydraulics.
- CEE 571 Applied Hydrology (3.0)**  
Prerequisite: CEE 470.
- CEE 572 Open Channel Hydraulics (3.0)**  
Prerequisite: CEE 370.
- CEE 573 Groundwater Hydrology (3.0)**  
Prerequisites: CEE 450 and Surface Water Hydrology (CEE 470).
- CEE 574 Water & Wastewater Treatment (3.0)**  
Prerequisites: CEE 471 or equivalent and fifth-year or graduate standing, or permission of instructor.
- CEE 581 Environmental Impact Analysis (3.0)**  
Prerequisite: Fifth-year or graduate standing or permission of instructor.
- CEE 582 Environmental Engineering Design (3.0)**  
Prerequisite: Fifth-year or graduate standing or permission of instructor.
- CEE 590 Current Topics in Civil Engineering (1.0-4.0)**  
Prerequisite: Consent of instructor.
- CEE 602 Graduate Internship in Civil & Environmental Engineering (2.0)**  
Prerequisites: Student must be admitted for Graduate Study, and a sponsored member of the Graduate Intern Program.
- CEE 604 Interaction of Soils and Structures (3.0)**  
Prerequisites: CEE 421, 422 & 452.
- CEE 620 Advanced Mechanics of Solids (3.0)**  
Prerequisite: Consent of instructor.  
Note: Cross-listed with ME 620.
- CEE 621 Finite Element Analysis for Structural Engineers (3.0)**  
Co-Requisite: CEE 620 Advanced Mechanics of Solids.
- CEE 622 Theory of Plates and Shells (3.0)**  
Prerequisite: CEE 620.
- CEE 623 Advanced Structural Engineering (3.0)**  
Prerequisites: CEE 520 and 625.
- CEE 624 Nonlinear Material Behavior (3.0)**  
Prerequisite: Construction Materials (CEE 530).
- CEE 625 Structural Dynamics (3.0)**  
Prerequisite: Matrix Structural Analysis (CEE 420).
- CEE 630 Unit Processes in Environmental Engineering (3.0)**  
Prerequisite: Fifth-year or graduate standing or permission of instructor.
- CEE 650 Measurement of Soil Properties (2.0)**  
Prerequisite: CEE 450 Geomechanics.
- CEE 651 Measurement of Soil Properties Laboratory (2.0)**  
Prerequisite: CEE 650 Measurement of Soil Properties (corequisite).
- CEE 652 Advanced Earth Pressure and Retaining Structures (3.0)**  
Prerequisite: Earth Pressures and Retaining Structures (CEE 552).
- CEE 653 Design of Earth Structures (3.0)**  
Prerequisite: Geomechanics (CEE 450).
- CEE 654 Rock Mechanics (3.0)**  
Prerequisite: Geomechanics (CEE 450).
- CEE 655 Ground Modification (3.0)**  
Prerequisites: CEE 450 Geomechanics.
- CEE 660 Transportation Planning and Urban Development (3.0)**  
Prerequisite: CEE 360 or 460.
- CEE 661 Environmental Analysis of Transportation Systems II (3.0)**  
Prerequisite: Environmental Analysis of Transportation Systems I (CEE 561).
- CEE 662 Airport Planning & Design (3.0)**  
Prerequisite: Transportation Systems Engineering (CEE 360).
- CEE 663 Advanced Traffic Operations (3.0)**  
Prerequisite: CEE 560.
- CEE 664 Fundamentals of Intelligent Transportation Systems (3.0)**  
Prerequisites: CEE 560 & 660.
- CEE 665 Pavement Design (3.0)**  
Prerequisites: CEE 360 or 460 and CEE 450.
- CEE 670 Advanced Hydraulics (3.0)**  
Prerequisite: Engineering Hydraulics (CEE 370).
- CEE 671 Stochastic Processes in Hydrology (3.0)**
- CEE 672 Statistical Methods in Water Resources (3.0)**  
Prerequisite: Probability & Statistics for Engineers (IE 360).
- CEE 673 Advanced Hydrology (3.0)**  
Prerequisites: CEE 470 & IE 360.
- CEE 674 Water Resources Systems (3.0)**
- CEE 675 Surface Water Quality Modeling (3.0)**  
Prerequisite: Consent of instructor.
- CEE 676 Sediment Transport and River Mechanics (3.0)**  
Prerequisite: Engineering Hydraulics (CEE 370).
- CEE 677 Groundwater Modeling (3.0)**  
Prerequisites: Engineering Hydraulics (CEE 370) and CEE 573.
- CEE 680 Civil Engineering Capstone Design (3.0)**  
Prerequisites: CEE 380 and Graduate/Professional Standing.
- CEE 690 M.S. Thesis in Civil Engineering (1.0-6.0)**
- CEE 692 Interactions of the Environment and Society (3.0)**  
Prerequisite: Permission of instructor.
- CEE 693 Independent Study in Civil Engineering (1.0-6.0)**
- CEE 694 Special Topics in Civil Engineering (1.0-6.0)**
- CEE 695 Civil Engineering Seminar (1.0)**
- CEE 697 Master of Engineering Thesis in Civil Engineering (1.0-6.0)**  
Prerequisites: CEE 402 and graduate/professional school standing.
- CEE 698 CE PhD Seminar (3.0)**  
Prerequisite: Permission of the chair.
- CEE 699 CE PhD Research (1.0-18.0)**  
Prerequisite: Permission of dissertation director.

## Chemical Engineering

- CHE 251 Physical Chemistry (4.0)**  
Prerequisite: CHEM 202.  
Prerequisite or corequisite: EAC 201, EAC 104.
- CHE 253 Materials Science (3.0)**  
Prerequisite: CHEM 202.
- CHE 288 Chemical Engineering Cooperative Education Seminar (0.0)**  
Prerequisites: EAC 201, CHE 251, 305.
- CHE 289 Chemical Engineering Cooperative Education I (2.0)**  
Prerequisites: EAC 201, CHE 251, 288, 305.
- CHE 305 Material and Energy Balances (4.0)**  
Prerequisite or Corequisites: CHE 251, EAC 201 or equivalents.
- CHE 311 Chemical Engineering Thermodynamics I (3.0)**  
Prerequisites: EAC (201,205) CHE (251,305) PHYS (298).
- CHE 312 Chemical Engineering Thermodynamics II (3.0)**  
Prerequisites: CHE 311.
- CHE 331 Principles of Fluid Dynamics (3.0)**  
Prerequisites: CHE 251,305, PHYS 298.  
Prerequisite or corequisite: EAC 205, CHE 311.
- CHE 389 Chemical Engineering Cooperative Education II (2.0)**  
Prerequisites: EAC 205, CHE 288,289,311, 331.
- CHE 401 Safety, Health and Environment (1.0)**  
Prerequisite: CHE 305 and 251.
- CHE 402 Fundamentals of Biochemical Engineering (3.0)**  
Prerequisites: CHE 311, CHE 331.

**CHE 430 Computer Applications in Chemical Engineering (3.0)**

Prerequisite: CHE 305, CHE 251.  
Prerequisite or corequisites: CHE 311, 331, EAC 205.

**CHE 434 Heat Transfer Principles (3.0)**

Prerequisites: CHE 305, 311, 331, EAC 205.

**CHE 435 Mass Transfer Principles (3.0)**

Prerequisites: CHE 434,312.

**CHE 436 Separation Operations (3.0)**

Prerequisites: CHE 434 and CHE 312.  
Corequisite: CHE 435.

**CHE 441 Kinetics and Chemical Reactors (3.0)**

Pre or Co-requisites: CHE 311 and CHE 331.

**CHE 461 Elements of Process Control (3.0)**

Prerequisites: EAC 205, CHE 435.

**CHE 471 The Strategy of Design (3.0)**

Prerequisites: CHE 312, 401, 434, 441, CHEM 341.  
Pre or Co-requisites: CHE 435, 436.

**CHE 485 Unit Operations Laboratory I (2.0)**

Pre or Corequisites: CHE 434,441.

**CHE 486 Unit Operations Laboratory II (2.0)**

Pre or Corequisites: CHE 435,436.

**CHE 489 Chemical Engineering Cooperative Education III (2.0)**

Prerequisites: CHE 288, 389,434, 441.

**CHE 493 Undergraduate Research in Chemical Engineering (1.0-6.0)**

Prerequisites: Approval of a faculty sponsor.

**CHE 494 Current Topics in Chemical Engineering (3.0)**

Prerequisites: CHE 434 and CHE 441.

**CHE 502 Biochemical Engineering (3.0)**

Prerequisites: CHE 435 and CHE 441.

**CHE 503 Fundamentals of Engineering Examination Review (2.0)**

Prerequisite: 4th Year Standing.

**CHE 509 Environmental Processes and Systems (3.0)**

Prerequisites: CEE 309 or (CHE 251 and 305 and 401) or permission of instructor.  
Note: Cross-listed with CEE 509.

**CHE 532 Advanced Material Science (3.0)**

Prerequisite: 90 or more credit hours.

**CHE 533 Chemical Engineering Safety and Health (3.0)**

Prerequisite: 90 or more credit hours.

**CHE 534 Industrial Waste Management (3.0)**

Prerequisite: 90 or more credit hours.  
Note: Cross-listed with CEE 534.

**CHE 535 Pollution Prevention (3.0)**

Prerequisite: 90 or more credit hours.

**CHE 550 Kinetics of Polymer Reactions (3.0)**

Prerequisite: Kinetics & Chemical Reactors (CHE 441) and CHEM 341.

**CHE 551 Polymer Science (3.0)**

Prerequisites: CHE 441 and CHEM 341.

**CHE 562 Process Control Laboratory (1.0)**

Prerequisite: Elements of Process Control (CHE 461).

**CHE 572 Plant Process and Project Design (3.0)**

Prerequisite: For undergraduate students, second year professional standing or CHE 471 is required.

**CHE 574 Techniques of Research (3.0)**

Prerequisite: 90 or more credit hours.

**CHE 593 Independent Study in Chemical Engineering (1.0-6.0)**

**CHE 594 Special Topics in Chemical Engineering (3.0)**

**CHE 595 Seminar in Chemical Engineering (0.0-3.0)**

*The following courses are available to students enrolled in the professional school, division of higher studies or the Graduate School:*

**CHE 602 Graduate Internship in Chemical Engineering (2.0)**

Prerequisites: Student must be admitted for Graduate Study, and a sponsored member of the Graduate Intern Program.

**CHE 603 Tissue Engineering (3.0)**

Prerequisites: Graduate/Professional School standing, Biology 329 or consent of instructor.

**CHE 610 Advanced Thermodynamics (3.0)**

**CHE 612 Nonequilibrium Thermodynamics (3.0)**

**CHE 620 Transport Phenomena I (3.0)**

**CHE 621 Transport Phenomena II (3.0)**

Prerequisite: CHE 620.

**CHE 624 Introduction to Rheology (3.0)**

**CHE 631 Homogeneous Fluid Dynamics (3.0)**

**CHE 632 Heterogeneous Flow (3.0)**

**CHE 633 Heat Transfer (3.0)**

**CHE 637 Advanced Stagewise Processes (3.0)**

**CHE 638 Advanced Absorption (3.0)**

**CHE 640 Chemical Kinetics and Catalysis (3.0)**

**CHE 641 Advanced Reactor Design (3.0)**

**CHE 650 Membrane Separations (3.0)**

**CHE 653 Polymer Processing (3.0)**

**CHE 654 Engineering Properties of Polymers (3.0)**

**CHE 660 Optimization in Control Systems (3.0)**

**CHE 661 Control of Dynamic Processes (3.0)**

**CHE 662 Advanced Process Control (3.0)**

**CHE 663 Distillation Dynamics and Control (3.0)**

**CHE 671 Bioseparation (3.0)**

Prerequisites: EAC 205 or equivalent; Graduate/Professional school standing or consent of instructor.

**CHE 686 Chemical Engineering Analysis (3.0)**

**CHE 687 Modeling and Simulation of Chemical Processes (3.0)**

Prerequisite or corequisite: Consent of instructor.

**CHE 690 M.S. Thesis in Chemical Engineering (1.0-6.0)**

**CHE 693 Advanced Research in Chemical Engineering (1.0-12.0)**

**CHE 694 Special Topics in Chemical Engineering (1.0-6.0)**

**CHE 695 Chemical Engineering Seminar (1.0-4.0)**

**CHE 696 Independent Study in Chemical Engineering (1.0-6.0)**

**CHE 697 Master of Engineering Thesis in Chemical Engineering (1.0-8.0)**

Prerequisite: Graduate/Professional School standing.

**CHE 698 Chemical Engineering Project Management (3.0)**

Prerequisites: Graduate/Professional School standing.

**CHE 699 Chemical Engineering Project Communications (3.0)**

Prerequisites: Graduate/Professional School standing, CHE 698.

Chemistry

**CHEM 100 Elements of General Chemistry (3.0)**

Prerequisite: Completion of general education requirement in mathematics recommended.

Note: May not be counted toward major in Chemistry.

**CHEM 101 Introduction to Chemistry - S (3.0)**

Note: Not counted toward major in Chemistry.

**CHEM 103 Introductory Chemistry Laboratory - SL (1.0)**

Prerequisite: Concurrent registration in CHEM 100 or 101.

**CHEM 105 Chemistry for Health Professionals - S (4.0)**

Note: Not counted toward major in chemistry. Does not fulfill general education lab requirement.

**CHEM 201 General Chemistry I - S (3.0)**

Prerequisite: An ACT score of 25 or higher in mathematics or completion of MATH 111 or EAC 100; completion of one year of high school Chemistry is also recommended.

**CHEM 202 General Chemistry II - S (3.0)**

Refer to: CHEM 201

**CHEM 207 Introduction to Chemical Analysis I -SL (1.0)**

Prerequisites: successful completion of or concurrent registration in CHEM 201.

**CHEM 208 Introduction to Chemical Analysis II -SL (1.0)**

Prerequisites: CHEM 207.

**CHEM 209 Introduction to Chemical Analysis III -SL (1.0)**

Prerequisites: CHEM 208 and successful completion of or concurrent registration in CHEM 202.

**CHEM 210 Introduction to Chemical Analysis IV-SL (1.0)**

Prerequisites: CHEM 209.

**CHEM 320 Chemical Information Resources (1.0)**

Prerequisite: CHEM 341.

**CHEM 341 Organic Chemistry I (3.0)**

Prerequisite: CHEM 202 and 209; 341 is prerequisite for 342.

**CHEM 342 Organic Chemistry II (3.0)**

Refer to: CHEM 341.

**CHEM 343 Organic Chemistry Laboratory I (1.0)**

Prerequisite: Corequisite of CHEM 341 for 343; 341, 343 prerequisite and 342 corequisite for 344.

**CHEM 344 Organic Chemistry Laboratory II (1.0)**

Refer to: CHEM 343

**CHEM 391 Undergraduate Research (1.0-3.0)**

Prerequisite: Faculty consent.

**CHEM 392 Undergraduate Research (1.0-3.0)**

Prerequisite: Faculty consent.

**CHEM 420 Cooperative Internship in Chemistry (1.0-3.0)**

Prerequisite: Chemistry through 344, department chair consent and junior standing.

**CHEM 441 Elements of Physical Chemistry (3.0)**

Prerequisites: CHEM 202, PHYS 222 or 299, MATH 206. Note: Credit may not be earned for this course and CHEM 461-462.

**CHEM 445 Survey of Biochemistry (3.0)**

Prerequisite: CHEM 342.

Note: This course will not count as credit for BS major with concentration in biochemistry.

**CHEM 450 Introduction to Computational Chemistry and Molecular Modeling (3.0)**

Prerequisites: CHEM 342, MATH 206, and PHYS 299 or 222.



**CHEM 451 Senior Research Seminar (1.0)**

Prerequisite: CHEM 591 or 392 and permission of the research director.  
Note: Spring only.

**CHEM 461 Physical Chemistry I (3.0)**

Prerequisite: CHEM 202, PHYS 222 or 299; and concurrent enrollment in MATH 301.  
Note: CHEM 461 is a prerequisite for 462.

**CHEM 462 Physical Chemistry II (3.0)**

Refer to: CHEM 461.

**CHEM 470 Physical Chemistry Laboratory -WR (2.0)**

Prerequisites: CHEM 210.  
Corequisites: CHEM 441 or CHEM 461.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**CHEM 491 Undergraduate Research (1.0-3.0)**

Prerequisite: CHEM 462, senior standing, and faculty consent.

**CHEM 492 Undergraduate Research (1.0-3.0)**

Prerequisite: CHEM 462, senior standing, and faculty consent.

**CHEM 501 Chem 501 Independent Study (1.0-3.0)**

Prerequisites: Minimum GPA OF 3.0 overall; minimum GPA of 3.5 in department and at least 18 semester hours credit in the department.  
Note: Credit may not be applied to an advanced degree in Chemistry.

**CHEM 503 Special Topics in Chemistry (1.0-3.0)**

Prerequisite: As required by topic.  
Note: Not applicable toward graduate degree in chemistry.

**CHEM 515 Chemistry 515 Inorganic Chemistry (3.0)**

Prerequisite: CHEM 342 and concurrent enrollment in CHEM 441 or 461.

Note: Credit may not be applied to an advanced degree in Chemistry.

**CHEM 527 Introduction to Separations and Spectroscopy - WR (3.0)**

Prerequisites: CHEM 344 and 470.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**CHEM 528 Chemistry 528 Contemporary Methods of Synthesis and Analysis I (3.0)**

Prerequisites: CHEM 527.  
Note: Credit may not be applied to an advanced degree in Chemistry.

**CHEM 529 Chemistry 529 Contemporary Methods of Synthesis and Analysis II (3.0)**

Prerequisites: CHEM 527 and completion of or concurrent registration in CHEM 515.  
Note: Credit may not be applied to an advanced degree in Chemistry.

**CHEM 532 Chemistry Education for Secondary Teachers (4.0)**

Prerequisites: Completion of or concurrent enrollment in CHEM 527.  
Note: Does not count toward a degree in Chemistry except by departmental permission.

**CHEM 545 Biochemistry I (3.0)**

Prerequisite: Organic Chemistry II (CHEM 342).  
Note: Cross-listed with BIOC 545.  
Note: Credit may not be earned in both 545 and 645. Credit may not be applied toward an advanced degree in Chemistry.

**CHEM 546 Biochemistry Laboratory (2.0)**

Prerequisites: CHEM 445 or CHEM 545.

**CHEM 547 Biochemistry II (3.0)**

Prerequisite: CHEM 545/BIOC 545.  
Note: Cross-listed with BIOC 547.  
Note: Credit may not be earned in both 547 and 647. Credit may not be applied to an advanced degree in chemistry.

**CHEM 550 Group Theory and its Chemical Applications (3.0)**

Prerequisite: One year of physical chemistry.

**CHEM 557 Bio-Organic Phenomena (3.0)**

Prerequisite: One year of organic chemistry.

**CHEM 561 Advanced Physical Chemistry (3.0)**

Prerequisite: One year of physical chemistry, one semester of atomic and molecular physics.

**CHEM 562 Advanced Physical Chemistry (3.0)**

Refer to: CHEM 561

**CHEM 576 Polymer Chemistry (3.0)**

Prerequisite: One year each of organic chemistry and physical chemistry.

**CHEM 591 Chemistry for Teachers I (3.0)**

Prerequisite: For graduate education majors. Must have experience in teaching chemistry principles in elementary, middle, or secondary schools.

**CHEM 592 Chemistry for Teachers II (3.0)**

Refer to: CHEM 591

## Chinese

**CHNS 101 Elementary Chinese I (3.0)**

**CHNS 102 Elementary Chinese II (3.0)**

Prerequisites: CHNS 101 or equivalent.

**CHNS 201 Intermediate Chinese I (3.0)**

Prerequisites: Chinese 102 or equivalent.

**CHNS 202 Intermediate Chinese II (3.0)**

Prerequisites: Chinese 201 or equivalent.

**CHNS 301 Advanced Intermediate Chinese I (3.0)**

Prerequisites: Completion of Chinese 202 or equivalent.

**CHNS 302 Advanced Intermediate Chinese II (3.0)**

Prerequisites: Completion of Chinese 301 or equivalent.

**CHNS 455 Advanced Readings in Chinese I (3.0)**

Prerequisites: CHNS 302 or permission of the instructor.

**CHNS 456 Advanced Readings in Chinese II (3.0)**

Prerequisites: CHNS 455 or permission of the instructor.

## Chinese Studies

**CHST 313 Special Topics (3.0)**

Note: May be repeated once for credit. Topic varies by semester. Conducted in English.

**CHST 323 Doing Business in China (3.0)**

**CHST 331 Chinese Culture and Tradition (3.0)**

**CHST 333 Contemporary China (3.0)**

**CHST 335 China Through Film (3.0)**

**CHST 341 Ethnicity and Religion in China (3.0)**

**CHST 351 Chinese Literature in Translation I (3.0)**

**CHST 352 Chinese Literature in Translation II (3.0)**

**CHST 353 Chinese Literary Theory (3.0)**

**CHST 361 Western Literature in China (3.0)**

## Computer Information Systems

**CIS 100 Introduction to Microcomputer Applications (3.0)**

Prerequisites: Three units of high school math.

**CIS 201 Introduction to Web Programming (6.0)**

Prerequisites: CIS 100 (grade of C or better) and MATH 107 (grade of C or better).

**CIS 202 Web Programming II (3.0)**

Prerequisites: CIS 201 (grade of C or better).

**CIS 211 Operating Systems (3.0)**

Prerequisites: CIS 100 or CIS 201 (grade of C or better).

**CIS 215 Introduction to Computer Information Systems (2.0)**

Prerequisite: CIS 201 (grade of C or better).

**CIS 300 Computer Information Systems (3.0)**

Prerequisite: CIS 100.

**CIS 310 Database Design (3.0)**

Prerequisites: CIS 111 or CIS 202, CIS 115 or CIS 215, CIS 211, MATH 205\* (\* Students admitted prior to Fall 04 may substitute MATH 111 (grade of C or better) for MATH 205).

**CIS 320 Analysis and Design of Computer Information Systems (3.0)**

Prerequisites: CIS 111 or CIS 202, CIS 115 or CIS 215, CIS 211, MATH 205\* (\* Students admitted prior to 04 Fall may substitute MATH 111 (grade of C or better) for MATH 205).

**CIS 360 Business Data Communications (3.0)**

Prerequisites: CIS 111 or CIS 202, CIS 115 or CIS 215, CIS 211, MATH 205\* (\* Students admitted prior to Fall 04 may substitute MATH 111 (grade of C or better) for MATH 205).

**CIS 371 Excel Programming with VBA (1.5)**

Prerequisites: CIS 100 and CIS 300.

**CIS 380 Software for Business I (1.0-3.0)**

Prerequisites: CIS 300, Restricted to Accounting and Finance majors.

**CIS 381 Software for Business II (1.0-3.0)**

Prerequisites: CIS 300, Restricted to Accounting and Finance majors.

**CIS 390 Special Topics (1.0-3.0)**

Prerequisites: CIS 111 or CIS 202, CIS 115 or CIS 215, CIS 211.

**CIS 391 Windows Network Administration (1.5)**

Prerequisites: CIS 111 or CIS 202, CIS 115 or CIS 215, CIS 211.

**CIS 392 VB NET Programming (1.5)**

Prerequisites: CIS 111 or CIS 202, CIS 115 or CIS 215, CIS 211.

**CIS 397 Co-op in Computer Information Systems I (3.0)**

Prerequisites: CIS 111 or CIS 202, CIS 115 or CIS 215, CIS 211, University GPA 2.5.

**CIS 398 Co-op in Computer Information Systems II (3.0)**

Prerequisite: Enrollment in or completion of CIS 397, University GPA 2.5 and validation through the CBPA Co-op office.

**CIS 399 Co-op in Computer Information Systems III (3.0)**

Prerequisite: Permission of CBPA Co-op Office.

**CIS 410 Management of Information Systems (3.0)**

Prerequisites: CIS 310, CIS 215 or CIS 315, CIS 320, CIS 360.

**CIS 415 Careers in Information Systems III (1.0)**

Prerequisites: CIS 310 or CIS 215 or CIS 315, CIS 320, CIS 360.

**CIS 420 CIS Development Project (3.0)**

Prerequisites: CIS 310, CIS 215 or CIS 315, CIS 320, CIS 360.

**CIS 430 GUI Development (3.0)**

Prerequisites: CIS 310, CIS 215 or CIS 315, CIS 320, CIS 360.

**CIS 440 Object-Oriented Methods (3.0)**

Prerequisites: CIS 310, CIS 215 or CIS 315, CIS 320, CIS 360.

**CIS 450 Artificial Intelligence and Expert Systems (3.0)**

Prerequisites: CIS 310, CIS 215 or CIS 315, CIS 320, CIS 360.

**CIS 455 Computer Ethics, Social Issues and the Law (3.0)**

Prerequisites: CIS 310, CIS 215 or CIS 315, CIS 320, CIS 360.

**CIS 460 Advanced Networking (3.0)**

Prerequisites: CIS 360.

**CIS 465 Advanced Cobol (3.0)**

Prerequisites: CIS 310, CIS 215 or CIS 315, CIS 320, CIS 360.

**CIS 475 Enterprise Internet Computing (3.0)**

Prerequisites: CIS 310, CIS 215 or CIS 315, CIS 320, CIS 360.

**CIS 480 Introduction to Network Security (3.0)**

Prerequisite: CIS 360.

**CIS 481 Introduction to Information Security (3.0)**

Prerequisite: CIS 320.

**CIS 482 Introduction to Cryptography (3.0)**

Prerequisites: CIS 300 and MATH 205 or EAC 101.

**CIS 483 Introduction to Database Security (3.0)**

Prerequisite: CIS 310.

**CIS 490 Special Topics in Computer Information Systems (3.0)**

Prerequisites: CIS 310, CIS 215 or CIS 315, CIS 320, CIS 360.

**CIS 499 Independent Study Computer Information Systems (1.0-3.0)**

Prerequisites: CIS 310, CIS 215 or CIS 315, CIS 320, CIS 360.

Commercial Law

**CLAW 301 Legal Environment of Business (3.0)**

Prerequisite: Sophomore Standing.

**CLAW 490 Special Topics in Commercial Law (1.0-3.0)**

Prerequisite: CLAW 301 and senior standing.

Communication

**COMM 111 Speech Communication - OC (3.0)**

Note: Approved for the General Education requirement in oral communication (SP).  
Note: Credit may not be received for this course and COMM 112.  
Note: Does not count toward Communication major.

**COMM 112 Business and Professional Speaking - OC (3.0)**

Note: Approved for the General Education requirement in oral communication (SP).  
Note: Credit may not be received for this course and COMM 111.  
Note: Does not count toward Communication major.

**COMM 114 Interviewing (3.0)**

Note: Does not count toward Communication major.

**COMM 115 Interpersonal Skills - OC (3.0)**

Note: Approved for the General Education requirement in oral communication (SP).  
Note: Does not count toward Communication major.

**COMM 201 Introduction to Communication - SB (3.0)**

**COMM 250 Computer Communication (3.0)**

**COMM 275 African - American Communication-CD1 (3.0)**

**COMM 299 Honors Introduction to Communication (3.0)**

Prerequisite: Invitation by Departmental Honors Committee.  
Note: Substitutes for COMM 201.

**COMM 301 Special Topics in Communication (3.0)**

Prerequisite: COMM 201.

**COMM 302 Advanced Speech Communication (3.0)**

Prerequisite: COMM 111 and faculty consent.

**COMM 304 Argument In Everyday Life (3.0)**

**COMM 305 Introduction to Mass Communication (3.0)**

Prerequisite: COMM 201.

**COMM 311 Persuasion (3.0)**

Prerequisite: Junior standing.

**COMM 312 Group Process (3.0)**

Prerequisite: COMM 201.

**COMM 313 Organizational Communication (3.0)**

Prerequisite: COMM 201.

**COMM 315 Introduction to Interpersonal Communication (3.0)**

**COMM 316 Research Methods (3.0)**

Prerequisite: COMM 201.

**COMM 317 Communication Internship (1.0-6.0)**

Prerequisite: Junior standing, 2.5 GPA overall, and faculty consent.

**COMM 318 Introduction to Advertising (3.0)**

Prerequisite: COMM 305.

**COMM 319 Debate (3.0)**

Prerequisite: COMM 111 or faculty consent.

**COMM 320 Newswriting -WR (3.0)**

Prerequisite: COMM 305 and word-processing competence, or faculty consent.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**COMM 323 Magazine and Feature Writing -WR (3.0)**

Prerequisite: COMM 320 and word-processing competence.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**COMM 326 African Americans in American Media - CD1 (3.0)**

Note: Crosslisted with PAS 312.

**COMM 327 Mass Media Processes and Effects (3.0)**

**COMM 329 Advertising Production and Layout (3.0)**

Prerequisite: COMM 305 or faculty consent.

**COMM 331 Television Production (3.0)**

Prerequisite: COMM 305 and faculty consent.

**COMM 332 Broadcast Writing and Reporting (3.0)**

Prerequisite: COMM 320 or faculty consent.

**COMM 333 Television News (3.0)**

Prerequisites: COMM 305 or consent of instructor.

**COMM 345 Advertising Copywriting (3.0)**

Prerequisite: COMM 329.

**COMM 347 Public Relations (3.0)**

Prerequisite: COMM 201.

**COMM 348 Writing for Public Relations -WR (3.0)**

Prerequisite: COMM 347 or faculty consent.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**COMM 350 Communication Theory (3.0)**

Prerequisite: COMM 201.

**COMM 360 Web Site Development (3.0)**

Prerequisites: COMM 250 or its equivalent.

**COMM 361 Web Site Development II (3.0)**

Prerequisites: COMM 360 or equivalent.

**COMM 370 Desktop Publishing (3.0)**

Prerequisite: COMM 250 or consent of instructor.

**COMM 380 Practicum (1.0-3.0)**

Prerequisites: COMM 201 or faculty consent.

Note: May not be taken simultaneously with COMM 480.

**COMM 401 Independent Study in Communication (1.0-6.0)**

Prerequisite: 18 hours in Department, 3.0 GPA overall and 3.2 GPA in major.

**COMM 410 International Communication (3.0)**

Prerequisite: COMM 305.

**COMM 411 Mass Communication Law (3.0)**

Prerequisite: COMM 305.

**COMM 412 Communication Criticism (3.0)**

**COMM 414 Mass Media and Politics (3.0)**

**COMM 421 Communication Technologies - WR (3.0)**

Prerequisite: COMM 305 or faculty consent.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**COMM 424 Advanced Public Relations (3.0)**

Prerequisite: COMM 347.

**COMM 425 Advanced Advertising (3.0)**

Prerequisite: COMM 345 and faculty consent.

**COMM 427 Case Studies in Public Relations (3.0)**

Prerequisite: COMM 347 or faculty consent.

**COMM 430 Health Communication - WR (3.0)**

Prerequisite: COMM 201 or consent of instructor.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**COMM 432 Advanced Organizational Communication -WR (3.0)**

Prerequisite: COMM 313.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**COMM 433 Children and Television - WR (3.0)**

Prerequisite: COMM 305 or faculty consent.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**COMM 435 Media, Culture and Society (3.0)**

Prerequisite: COMM 305.

**COMM 440 Intercultural Communication -WRCD2 (3.0)**

Prerequisites: COMM 315.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**COMM 455 Persuasive Movements (3.0)**

Prerequisite: COMM 311.

**COMM 460 Special Topics in Communication Studies (3.0)**

Prerequisite: COMM 201.

Note: May be repeated up to 6 hours.

**COMM 461 Special Topics in Mass Communication (3.0)**

Prerequisite: COMM 201.  
Note: May be repeated up to 6 hours.

**COMM 462 Special Topics in Advertising and Public Relations (3.0)**

Prerequisite: COMM 201.  
Note: May be repeated up to 6 hours.

**COMM 480 Senior Practicum (1.0-3.0)**

Prerequisites: COMM 316 and faculty consent.  
Note: May not be taken simultaneously with COMM 380.

**COMM 498 Senior Honors Seminar (3.0)**

Prerequisite: Senior standing; admission to departmental honors program.

**COMM 499 Senior Thesis - WR (3.0)**

Prerequisite: Senior standing; admission to departmental honors program.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**COMM 506 Ethical Problems in Communication - WR (3.0)**

Prerequisite: COMM 305.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**COMM 510 Special Topics in Speech (1.0-3.0)**

Prerequisite: Faculty consent.  
Note: May be repeated under different subtitles.

**COMM 513 History of Communication - WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**COMM 520 Computer-Mediated Communication -WR (3.0)**

Prerequisite: COMM 150 or consent of instructor.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**COMM 540 Public Communication Campaigns (3.0)**

**COMM 590 Health Communication (3.0)**

Prerequisite: Consent of instructor.

**Dental Auxiliary Education**

*Note: Dental Auxiliary Education (DAUX) includes numerous courses for the Dental Hygiene Program. Information on the individual listing of courses may be obtained from the Office of Dental Hygiene.*

**DAUX 100 Radiography (2.0)**

**DAUX 101 Dental Anatomy (2.0)**

**DAUX 102 Introduction to Dental Sciences (3.0)**

**DAUX 103 Preventive Oral Health Services I (5.0)**

**DAUX 104 Microbiology (3.0)**

**DAUX 105 Periodontics (2.0)**

**DAUX 106 Dental Materials and Expanded Functions (2.0)**

**DAUX 107 Preclinical Radiography (1.0)**

**DAUX 108 Preventive Oral Health Services II (3.0)**

**DAUX 109 General and Oral Pathology I (3.0)**

**DAUX 110 Statistics and Research Design (1.5)**

**DAUX 111 Pain and Anxiety Control (2.0)**

**DAUX 113 Preventive Oral Health Services 11 (2.0)**

**DAUX 201 General and Oral Pathology (2.0)**

**DAUX 202 Dental Health Education (1.0)**

**DAUX 203 Preventive Oral Health Services IV (4.0)**

Prerequisites: DAUX 103, DAUX 108, and DAUX 113.

**DAUX 205 Clinical Radiography & Radiology (1.0)**

**DAUX 206 Advanced Radiology (1.0)**

**DAUX 207 Pharmacology for the Dental Hygienist I (2.0)**

**DAUX 209 Preventive Oral Health Services V (3.0)**

**DAUX 210 Dental Hygiene Practice (2.0)**

**DAUX 211 Community Dental Health (2.0)**

**DAUX 213 Extramural Education (2.0)**

**DAUX 214 Special Needs Patients (2.0)**

**DAUX 216 Advanced Periodontics for the Dental Hygienist (1.0)**

**DAUX 217 Advanced Technology and Patient Care I (2.0)**

**DAUX 219 Advanced Technology and Patient Care II (1.0)**

**DAUX 220 Advanced Periodontics II (1.0)**

**DAUX 300 Post-Graduate Dental Hygiene Studies (0.0-10.0)**

**Engineering Analysis Core**

**EAC 100 Introductory Calculus (4.0)**

Note: May not be used for credit toward the Speed Scientific School B.S. and M.Eng. degrees.

**EAC 101 Engineering Analysis I - M (4.0)**

**EAC 102 Engineering Analysis II (4.0)**

Prerequisite: EAC 101.  
Corequisite: EAC 104.

**EAC 104 Computer Algebra for Engineering (1.0)**

**EAC 201 Engineering Analysis III (4.0)**

Prerequisite: EAC 102, EAC 104.

**EAC 205 Differential Equations for Engineering (2.0)**

Prerequisites: EAC 104, EAC 201.

**Electrical and Computer Engineering**

**ECE 210 Logic Design (3.0)**

Prerequisite: PHYS 299.  
Corequisite: ECE 211.

**ECE 211 Logic Design Laboratory (1.0)**

Corequisite: ECE 210.

**ECE 220 Network Analysis I (3.0)**

Prerequisite: PHYS 299 and EAC 201.  
Corequisite: EAC 205, ECE 221.

**ECE 221 Network Analysis I Laboratory (1.0)**

Prerequisite: PHYS 299 and EAC 201.

Corequisite: EAC 205 and ECE 220.

**ECE 252 Introduction to Electrical Engineering (3.0)**

Prerequisite: PHYS 299.  
Prerequisite or Corequisite: EAC 201.  
Note: This course is for Non-ECE students only.

**ECE 260 Science, Technology and Society - SB (3.0)**

Prerequisites: Second year Speed School standing.

**ECE 288 Electrical & Computer Engineering Cooperative Education Seminar (0.0)**

Prerequisites: Eligibility for admission to the ECE Department.

**ECE 289 Electrical & Computer Engineering Cooperative Education I (2.0)**

Prerequisites: ECE 288, admission to academic department, and good standing within Speed School.

**ECE 320 Network Analysis II (3.0)**

Prerequisite: ECE 220 and CECS 121.

**ECE 333 Electronics I (3.0)**

Corequisite: ECE 320, ECE 334.

**ECE 334 Electronics I Lab (1.0)**

Prerequisite: ECE 221.  
Corequisite: ECE 320, ECE 333.

**ECE 389 Electrical & Computer Engineering Cooperative Education II (2.0)**

Prerequisites: ECE 288 and ECE 289.

**ECE 400 Special Topics in Electrical & Computer Engineering (1.0-6.0)**

**ECE 405 Undergraduate Project in Electrical & Computer Engineering (1.0-6.0)**

Prerequisite: Approval of a faculty sponsor.

**ECE 412 Computer Interfacing (3.0)**

Prerequisite: ECE 210 and Senior Standing or faculty consent.  
Note: Cross-listed with CECS 412.

**ECE 420 Signals and Linear Systems (3.0)**

Prerequisite: ECE 320.  
Prerequisite or Corequisite: CEE 330.

**ECE 421 Active Network Design I (3.0)**

Prerequisite: ECE 320 and ECE 333.  
Corequisite: ECE 422.

**ECE 422 Active Network Design I Laboratory (1.0)**

Prerequisite: ECE 334.  
Corequisite: ECE 421.

**ECE 473 Introduction to Electromagnetic Fields and Waves (3.0)**

Prerequisite: Professional school standing.

**ECE 489 Electrical and Computer Engineering Cooperative Education III (2.0)**

Prerequisites: ECE 288 and ECE 389.

**ECE 493 Independent Study in Electrical & Computer Engineering (1.0-6.0)**

Prerequisite: Approval of a faculty sponsor.

**ECE 496 Professional Issues and Current Topics Seminar (2.0)**

Prerequisite: Senior standing.

**ECE 500 Special Topics in Electrical Engineering (1.0-6.0)**

**ECE 503 Fundamentals of Engineering Examination Review (2.0)**

Prerequisite: 4th Year Standing.

**ECE 505 Graduate-Professional Project in Electrical Engineering (1.0-6.0)**

Prerequisite: Approval of a faculty sponsor.

**ECE 510 Computer Design (3.0)**

Prerequisites: ECE 210, ECE 211.  
Corequisite: ECE 511.

Note: Cross-listed with CECS 510.

**ECE 511 Computer Design Laboratory (1.0)**

Prerequisite: Logic Design (ECE 210).  
Corequisite: ECE 510.

**ECE 512 Electronics II (3.0)**  
Prerequisites: Electronics I (ECE 333) and Electronics I Laboratory (ECE 334).  
Corequisite: ECE 513.

**ECE 513 Electronics II Laboratory (1.0)**  
Prerequisite: Electronics I Laboratory (ECE 334).  
Corequisite: ECE 512.

**ECE 514 Introduction to VLSI Systems Laboratory (1.0)**  
Prerequisite: Logic Design & Lab (ECE 210 and 211).  
Corequisite: ECE 510/CECS 510 & ECE 515, or consent of instructor.

**ECE 515 Introduction to VLSI Systems (3.0)**  
Prerequisite: Logic Design (ECE 210).  
Corequisite: ECE 510/CECS 510 and ECE 514, or consent of instructor.

**ECE 516 Microcomputer Design (4.0)**  
Prerequisite: Computer Interfacing (ECE/CECS 412) or consent of instructor.  
Note: Cross-listed with CECS 525.

**ECE 518 Fundamentals of Computer Communications and Networks (3.0)**  
Prerequisite: Probability and Statistics for Engineers (IE 360), and Computer Interfacing (ECE 412).  
Note: Cross-listed with CECS 516.

**ECE 520 Digital Signal Processing (3.0)**  
Prerequisite: Signals & Linear Systems (ECE 420).  
Co-requisite: ECE 521.

**ECE 521 Digital Signal Processing Laboratory (1.0)**  
Prerequisite: Signals & Linear Systems (ECE 420).  
Co-requisite: ECE 520.

**ECE 530 Introduction to Random Processes and Estimation Theory (3.0)**  
Prerequisites: Linear Algebra for Engineering (CEE 330), Probability and Statistics for Engineers (IE 360), and Signals and Linear Systems (ECE 420).

**ECE 531 Electronic Circuit Design Laboratory (3.0)**  
Prerequisite: Electrical engineering majors only.

**ECE 533 Integrated Circuit Design (3.0)**  
Prerequisite: Electronics I (ECE 333) and Active Network Design I (ECE 421).  
Corequisite: ECE 534.

**ECE 534 Integrated Circuit Design Laboratory (1.0)**  
Prerequisite: Electronics I (ECE 333) and Active Network Design I (ECE 421).  
Corequisite: ECE 533.

**ECE 535 Instrumentation Electronics (3.0)**  
Prerequisite: Major in mechanical engineering, Introduction to Electrical Engineering (ECE 252).  
Corequisite: ECE 536.

**ECE 536 Instrumentation Electronics Laboratory (1.0)**  
Prerequisites: Major in Mechanical Engineering, ECE 252 Introduction to Electrical Engineering;  
Corequisite: ECE 535.

**ECE 540 Lasers and Electrooptical Systems (3.0)**  
Prerequisites: ECE 569 or consent of instructor.  
Corequisite: ECE 541.

**ECE 541 Engineering Optics Laboratory (1.0)**  
Prerequisites: ECE 569 or consent of instructor.  
Corequisite: ECE 540 or ECE 545.

**ECE 542 Physical Electronics (3.0)**  
Prerequisite: Introductory Modern Physics (PHYS 300).

**ECE 543 Fundamentals of Microfabrication and MEMS (3.0)**  
Prerequisites: Senior Standing.

**ECE 544 Microfabrications/MEMS Laboratory (1.0)**  
Prerequisites/Co-requisite: ECE 543.

**ECE 545 Optical Signal Processing (3.0)**  
Prerequisite: Signals & Linear Systems (ECE 420); or consent of instructor.

**ECE 550 Communications and Modulation (3.0)**  
Prerequisite: Signals & Linear Systems (ECE 420).  
Corequisite: ECE 551.

**ECE 551 Communication Systems Laboratory (1.0)**  
Prerequisite: Signals & Linear Systems (ECE 420).  
Corequisite: ECE 550.

**ECE 560 Control Systems Principles (3.0)**  
Prerequisite: Signals & Linear Systems (ECE 420).  
Corequisite: ECE 561.

**ECE 561 Control Systems Laboratory (1.0)**  
Corequisite: ECE 560.

**ECE 562 Introduction to Robotics (3.0)**  
Prerequisites: ME 206, CEE 330, ECE 560.

**ECE 569 Intermediate Electromagnetic Fields and Waves (3.0)**  
Prerequisite: Introduction to Electromagnetic Fields and Waves (ECE 473).

**ECE 570 Microwave Engineering (3.0)**  
Prerequisite or Corequisite: ECE 569 and ECE 572.

**ECE 571 Antennas (3.0)**  
Prerequisite or Corequisite: ECE 569.

**ECE 572 Microwave Engineering Laboratory (1.0)**  
Prerequisite or Corequisite: ECE 569, ECE 570, or consent of instructor.

**ECE 581 Electromechanics (3.0)**  
Prerequisite: Introduction to Electromagnetic Fields and Waves (ECE 473).

**ECE 582 Power System Analysis (3.0)**  
Prerequisite: Introduction to Electromagnetic Fields and Waves (ECE 473).

**ECE 593 Independent Study in Electrical Engineering (1.0-6.0)**  
Prerequisite: Approval of a faculty sponsor.

**ECE 595 Graduate/Professional Seminar in Electrical & Computer Engineering (1.0)**

**ECE 599 Capstone Design in ECE (4.0)**  
Prerequisites: ECE 420, ECE 421, ECE 489, ECE 496, ECE 412 or ECE 5xx/5xx elective and lab, undergraduate students with senior standing, or permission of instructor.

**ECE 600 Special Topics in Electrical & Computer Engineering (1.0-6.0)**

**ECE 602 Graduate Internship in Electrical and Computer Engineering (2.0)**  
Prerequisites: Student must be admitted for Graduate Study, and a sponsored member of the Graduate Intern Program.

**ECE 605 Graduate Project in Electrical & Computer Engineering (1.0-6.0)**  
Prerequisite: Approval of a faculty sponsor.

**ECE 611 Computer Architecture (3.0)**  
Prerequisite: ECE 510/CECS 510.  
Note: Cross-listed with CECS 611.

**ECE 614 Artificial Neural Systems (3.0)**

**ECE 616 VLSI Architectures (3.0)**  
Prerequisites: ECE 510, 515 or consent of instructor.

**ECE 617 Expert Systems Engineering (3.0)**

**ECE 618 Digital Image Processing (3.0)**  
Prerequisite: ECE 520, 521 or ECE 420 and faculty consent.  
Corequisite: ECE 635.

**ECE 619 Computer Vision (3.0)**  
Prerequisite: ECE 618.  
Corequisite: ECE 645.

**ECE 620 Pattern Recognition and Machine Intelligence (3.0)**  
Prerequisite: ECE 420, IE 360 or consent of instructor.  
Corequisite: ECE 655.

**ECE 621 Active Network Design II (3.0)**  
Prerequisite: Active Network Design I (ECE 421).  
Corequisite: ECE 622.

**ECE 622 Active Network Design II Laboratory (1.0)**  
Prerequisite: Active Network Design I Laboratory (ECE 422).  
Corequisite: ECE 621.

**ECE 625 State Space Theory of Linear Systems (3.0)**  
Prerequisite: Signals & Linear Systems (ECE 420).

**ECE 630 Pulse and Digital Waveforms (3.0)**  
Prerequisite: Active Network Design I (ECE 421), or consent of instructor.  
Corequisite: ECE 631.

**ECE 631 Pulse and Digital Laboratory (1.0)**  
Prerequisite: Active Network Design I Lab (ECE 422) or consent of instructor.  
Corequisite: ECE 630.

**ECE 635 Digital Image Processing Laboratory (1.0)**  
Corequisites: ECE 618.

**ECE 640 Introduction to Biomedical Engineering (3.0)**  
Prerequisite: Signals & Linear Systems (ECE 420).

**ECE 641 Introduction to Medical Imaging (3.0)**  
Prerequisites: ECE 520 or equivalent.  
Note: Crosslisted with CECS 641.

**ECE 642 Fiber Optics and Integrated Optical Systems (3.0)**  
Prerequisites: ECE 569 or consent of instructor.

**ECE 643 Introduction to Biomedical Computing (3.0)**  
Prerequisites: Graduate Standing.  
Note: Crosslisted with CECS 643.

**ECE 645 Computer Vision Laboratory (1.0)**  
Prerequisites: ECE 618.  
Corequisites: ECE 619.

**ECE 646 Optical Computer Architectures (3.0)**  
Prerequisite: Consent of instructor.

**ECE 647 Fundamentals of Optoelectronics and Photonics (3.0)**  
Prerequisite: Consent of instructor.

**ECE 650 Statistical Theory of Communication (3.0)**  
Prerequisite: Probability & Statistics for Engineers (IE 360) and ECE 550.

**ECE 651 Communication System Design (3.0)**  
Prerequisite: ECE 550.

**ECE 652 Information Theory and Coding (3.0)**  
Prerequisite: ECE 550.

**ECE 653 Digital Communications (3.0)**  
Prerequisites: ECE 550, IE 360.

**ECE 655 Pattern Recognition and Machine Intelligence Laboratory (1.0)**  
Corequisite: ECE 620.

**ECE 661 Sampled-Data Control Systems (3.0)**  
Prerequisite: ECE 560.

**ECE 662 Introduction to Optimum Control (3.0)**  
Prerequisite: ECE 560.

**ECE 664 Modern Adaptive Control (3.0)**  
Prerequisite: ECE 560 and 625.

**ECE 665 Theory of Nonlinear Systems (3.0)**  
Prerequisite: ECE 625.

**ECE 667 Fuzzy Control (3.0)**  
Prerequisites: ECE 560 and ECE 561.

**ECE 670 Advanced Electromagnetic Theory (3.0)**  
Prerequisite: ECE 569.

**ECE 681 Solid-State Motor Controls (3.0)**  
Prerequisite or corequisite: ECE 581.

**ECE 682 Advanced Power System Analysis (3.0)**  
Prerequisite: ECE 582.

**ECE 690 M.S. Thesis in Electrical Engineering (1.0-6.0)**

**ECE 693 Independent Study in Electrical & Computer Engineering (1.0-6.0)**  
Prerequisite: Approval of a faculty sponsor.

**ECE 695 Graduate Seminar in Electrical and Computer Engineering (1.0)**

**ECE 697 Master of Engineering Thesis in Electrical Engineering (1.0-8.0)**  
Prerequisite: ECE 599 and Graduate/Professional standing.

**ECE 698 Master of Engineering Paper in Electrical Engineering (1.0-8.0)**  
Prerequisites: ECE 599 and Graduate/Professional standing.

**ECE 699 Master of Engineering Advanced Level Independent Project (3.0)**  
Prerequisites: ECE 599, Graduate/Professional standing, Approval of the Department Chair.

**ECE 700 Dissertation Research in Electrical Engineering (1.0-18.0)**  
Prerequisites: Completion of doctoral core program and consent of dissertation director.

## Economics

**ECON 101 Personal Financial Economics (3.0)**

**ECON 201 Principles of Microeconomics - SB (3.0)**

**ECON 202 Principles of Macroeconomics - SB (3.0)**

**ECON 301 Intermediate Microeconomics (3.0)**  
Prerequisite: ECON 201-202.

**ECON 302 Intermediate Macroeconomics-WR (3.0)**  
Prerequisite: ECON 201-202.

**ECON 312 Urban Economics (3.0)**  
Prerequisite: ECON 201-202.

**ECON 321 Money and Banking (3.0)**  
Prerequisite: ECON 201-202.

**ECON 331 Labor Economics (3.0)**  
Prerequisite: ECON 201-202.  
Note: Cross-listed with MGMT 331.

**ECON 341 Public Finance (3.0)**  
Prerequisite: ECON 201-202.

**ECON 342 State and Local Government Finance (3.0)**  
Prerequisite: ECON 201-202.

**ECON 397 Co-op in Economics I (1.0-3.0)**

Prerequisites: ECON 201 and 202; University GPA 2.5 and validation through the CBPA Co-op office.

**ECON 398 Co-op in Economics II (1.0-3.0)**

Prerequisite: Completion of ECON 397, University GPA 2.5 and validation through CBPA Co-op Office.

**ECON 399 Co-op in Economics III (3.0)**

Prerequisite: Permission of CBPA Co-op Office.

**ECON 401 Mathematical Economics (3.0)**

Prerequisite: MATH 205, ECON 301 - or faculty consent.

**ECON 402 Econometrics (3.0)**

Prerequisite: ECON 201-202, MGMT 201.

**ECON 413 The Economics of Entrepreneurship (3.0)**

Prerequisite: ECON 201-202.

**ECON 414 Economic Analysis and Forecasting (3.0)**

Note: Cross-listed with FIN 414.

**ECON 421 History of Economic Thought (3.0)**

Prerequisite: ECON 201-202.

**ECON 431 International Trade (3.0)**

Prerequisite: ECON 201-202.

**ECON 433 Financial Markets and Institutions-WR (3.0)**

Note: Cross-listed with FIN 433.

**ECON 439 Emerging Market Economies (3.0)**

Prerequisites: ECON 201-202.

**ECON 442 Public Policy and Industrial Organization (3.0)**

Prerequisite: ECON 201-202.

**ECON 475 Senior Economics Seminar (3.0)**

Prerequisite: MATH 205, ECON 301, ECON 302 and senior status.

**ECON 490 Special Topics in Economics (3.0)**

**ECON 491 Special Topics in Economics and Finance (3.0)**

Note: Cross-listed with FIN 491.

**ECON 499 Independent Study in Economics (1.0-3.0)**

Prerequisite: Written proposal must be sponsored by at least one faculty member and approved by the Department Chair.

## Educational and Counseling Psychology

**ECPY 218 Workshop in ECPY I (1.0-4.0)**

Prerequisite: Faculty consent.

**ECPY 219 Workshop in ECPY II (1.0-4.0)**

Refer to: ECPY 218

**ECPY 305 Human Development and Learning (3.0)**

Prerequisite: PSYC 201.

**ECPY 355 Developing Campus Leadership (3.0)**

**ECPY 501 Independent Study in Educational Psychology (1.0-3.0)**

**ECPY 502 Independent Study in Educational Psychology (1.0-3.0)**

Refer to: ECPY 501

**ECPY 507 Learning Theory and Human Growth and Development (3.0)**

**ECPY 512 Learning and Cognition in Education (3.0)**

Prerequisite: Consent of instructor.

**ECPY 513 Individual Differences in Education (3.0)**

Prerequisite: Consent of instructor.

**ECPY 525 Topical Studies in Educational Psychology I (1.0-3.0)**

Prerequisite: Consent of instructor.

**ECPY 526 Topical Studies in Educational Psychology II (1.0-3.0)**

Refer to: ECPY 525

**ECPY 527 Workshop in Educational Psychology I (1.0-4.0)**

Prerequisite: Consent of instructor.

**ECPY 528 Workshop in Educational Psychology II (1.0-4.0)**

Refer to: ECPY 527

**ECPY 540 Evaluation and Measurement in Education (3.0)**

**ECPY 596 Seminar in Guidance (1.0-4.0)**

Prerequisite: Majors are urged to take seminars prior to or concurrent with practicum.

**ECPY 597 Seminar in Guidance (1.0-4.0)**

Refer to: ECPY 596

## Education: Advanced Practitioner

**EDAP 511 Reading and Writing in Content Areas (3.0)**

Prerequisite: 12 hours in education or psychology, or consent of instructor.

**EDAP 540 Teaching Adolescent Readers (3.0)**

Note: Cross-listed with EDTP 540.

**EDAP 581 Teaching for Talent Development (3.0)**

**EDAP 582 Teaching Gifted Students in the Regular Classroom (3.0)**

**EDAP 590 Teacher Institute on African-American Issues (3.0)**

Note: Cross-listed with PAS 529.

**EDAP 591 Survey of African History and Culture for Teachers (3.0)**

Note: Cross-listed with PAS 530.

**EDAP 592 Survey of African-American History and Culture for Teachers (3.0)**

Note: Cross-listed with ESDS 592 and PAS 531.

**EDAP 596 Seminar in Elementary Education (1.0-4.0)**

**EDAP 597 Seminar in Elementary Education (1.0-4.0)**

Refer to: EDEM 596

## Early and Middle Childhood Education

*Please see EDAP (Education: Advanced Practitioner) and EDTP (Education: Teacher Preparation)*

## Foundations of Education

**EDFD 596 Seminar: Research (1.0-4.0)**

Prerequisite: Consent of instructor.

## Secondary Education

*Please see EDAP (Education: Advanced Practitioner) and EDTP (Education: Teacher Preparation)*

## Education: Special Education

**EDSP 180 Introduction to Special Education (3.0)**

**EDSP 181 Field Experiments in Special Education (3.0)**

**EDSP 260 Classroom and Behavior Management (3.0)**

**EDSP 440 Introduction to Exceptional Children (3.0)**

**EDSP 470 Student Teaching, LBD (6.0)**

Prerequisites: Taken within the last nine hours of the program.

**EDSP 528 Assessment Procedures for the Visually Impaired (3.0)**

Prerequisite: Introduction to Special Education (EDSP 180), EDSP 509, EDSP 510 and EDSP 525.

**EDSP 529 Student Teaching of the Visually Impaired (4.0)**

Prerequisite: Consent of instructor.

**EDSP 537 Language Learning for Exceptional Children (3.0)**

**EDSP 540 Introduction to Exceptional Children (3.0)**

**EDSP 541 Introduction to Learning and Behavior Disorders (3.0)**

**EDSP 545 Exceptional Children in the Regular Classroom (3.0)**

**EDSP 578 Practicum in Teaching the Trainable Mentally Retarded (4.0)**

**EDSP 594 Problems and Methods of Teaching the Physically Handicapped and Sensory Impaired (3.0)**

**EDSP 596 Seminar in Special Education (1.0-4.0)**

**EDSP 597 Seminar in Special Education (1.0-4.0)**

Refer to: EDSP 596

## Occupational Training and Development

**EDTD 501 Independent Study: Training or Technical Education (1.0-3.0)**

**EDTD 596 Seminar: Training or Technical Education (1.0-4.0)**

## Teaching and Learning

*Please see EDAP (Education: Advanced Practitioner) and EDTP (Education: Teacher Preparation)*

## Education: Teacher Preparation

**EDTP 101 Academic Orientation (1.0)**

Note: Crosslisted with HPES 181.

**EDTP 200 Adolescent Diversity in School and Society-SBCD1 (3.0)**

**EDTP 201 The Teaching Profession - SB (3.0)**

**EDTP 300 Special Education Methods & Assessment I (3.0)**

Prerequisites: EDTP 309, 325 & EDSP 260.

**EDTP 301 Special Education Methods and Assessment II (3.0)**

Prerequisites: Admission to Teacher Education, EDTP 309,311, 313, 320, 322, 324, 325, 401, 403,& EDSP 260.

**EDTP 302 Case Studies I (3.0)**

Prerequisites: Taken concurrently with student teaching (EDTP 450).

**EDTP 303 Case Studies II (3.0)**

Prerequisites: Taken concurrently with student teaching (EDTP 450).

**EDTP 305 Development of Children in Home and School (3.0)**

**EDTP 309 Practicum I: Exploring Students' Worlds in the Classroom (3.0)**

Prerequisites: Admission to Teacher Education.

**EDTP 311 Introduction to Reading/Language Arts P-5 (3.0)**

Prerequisite: Admission to undergraduate teacher education program.

**EDTP 313 Math Methods (3.0)**

Prerequisites: Admission to Teacher Education, EDTP 311, 320, 322, & 401.

**EDTP 320 Methods for Teaching Reading/Language Arts, P-5 (3.0)**

Prerequisites: Admission to Teacher Education.

**EDTP 322 Social Studies Methods (3.0)**

Prerequisites: Admission to Teacher Education.

**EDTP 324 Science Methods P-5 (3.0)**

Prerequisites: Admission to Teacher Education, EDTP 311,320,322,401.

**EDTP 325 Practicum II: Democratic Learning Communities (3.0)**

Prerequisites: Admission to Teacher Education. EDTP 309.

**EDTP 329 Practicum III (3.0)**

Prerequisites: EDTP 309,325.

**EDTP 401 General Methods (3.0)**

Prerequisites: Admission to the undergraduate teacher education program.

**EDTP 403 Developing Cross-Cultural Competence: Teaching Students from Diverse Backgrounds (3.0)**

Prerequisites: Admission to the UofL teacher preparation program.

**EDTP 432 Literacy and Numeracy in Interdisciplinary Early Childhood Education (3.0)**

Prerequisites: Admission to Teacher Education.

**EDTP 433 Curriculum & Methods in Early Childhood Special Education (3.0)**

Prerequisites: Admission to Teacher Education.

**EDTP 435 Administration and Consultations: Day Care and Early Childhood (3.0)**

Prerequisites: Admission to Teacher Education.

**EDTP 436 Theories of Play (3.0)**

**EDTP 437 Infant/Toddler Development and Care (3.0)**

**EDTP 450 Student Teaching ERED (6.0)**

Prerequisites: Successful completion of all methods courses, a passing score on the PRAXIS exam and the recommendation of BSEd faculty.

**EDTP 484 Early Family Intervention (3.0)**

Prerequisites: Admission to Teacher Education.

**EDTP 501 General Methods (3.0)**

Prerequisites: Admission to teacher education.

**EDTP 502 Exploring Teaching in the Sociopolitical Contexts of P-12 Schools (3.0)**

Prerequisites: Admission to teacher education.

**EDTP 503 Developing Cross-Cultural Competence: Teaching Students from Diverse Backgrounds (3.0)**

Prerequisites: Admission to teacher education.

**EDTP 504 Teaching with Technology (2.0)**

Prerequisites: Admission to teacher education.

**EDTP 505 Challenging Advanced Learners (1.0)**

Prerequisites: Concurrent enrollment in student teaching (EDTP450, 612, 613, 615, 616, 617, 618 or 619) or permission of instructor.

**EDTP 511 Proficiency Evaluation in Interdisciplinary Early Childhood Education (3.0)**

Prerequisites: Bachelor's degree in early childhood, special education, or child development, two years of successful experience as an early childhood lead teacher or director.

**EDTP 535 CLSRM SPCH CORR PHN (3.0)**

**EDTP 540 Teaching Adolescent Readers (3.0)**

Note: Cross-listed with EDAP 540.

## Education

*Please see EDAP (Education: Advanced Practitioner) and EDTP (Education: Teacher Preparation)*

## Engineering Graphics

**EG 105 Fundamentals of Engineering Graphics I (1.0)**

**EG 214 Introduction to Computer-Aided Graphics and Design (1.0)**

Prerequisite: EG 105.

**EG 314 Advanced Computer-Aided Graphics and Design (2.0)**

Prerequisite: EG 214.

## Education: Leadership, Foundations & Human Resource

**ELFH 290 Occupational Subjects (2.0-42.0)**

Prerequisites: 12 semester hours in the program courses with a B or better average in 4 courses.

**ELFH 291 Occupational Experience (2.0-48.0)**

Prerequisites: 12 semester hours in program courses with a B or better average in the four courses.

**ELFH 310 Teaching Career and Technical Education (3.0)**

Prerequisites: ELFH 445.

**ELFH 312 Occupational Analysis and Curriculum Development (3.0)**

Prerequisites: ELFH 445.

**ELFH 315 Supervised Work Experience Internship (3.0-24.0)**

**ELFH 316 Training Methods and Techniques (3.0)**  
Prerequisites: ELFH 312 and ELFH 445.

**ELFH 320 Related Science, Mathematics, and Technology in Training (6.0)**

Prerequisites: At least 9 semester hours coursework in the program.

**ELFH 321 Manipulative Skills in Occupations (6.0)**

Prerequisites: At least 9 semester hours coursework in the program.

**ELFH 322 Knowledge of Related Subjects in Training and Development (6.0)**

Prerequisites: At least 9 hours coursework in the program.

**ELFH 330 Special Needs and Technical Education (3.0)**

Prerequisites: ELFH 445.

**ELFH 332 Evaluation of Training (3.0)**

Prerequisites: ELFH 312,445.

**ELFH 341 Planning and Coordinating Training Facilities (3.0)**

Prerequisites: ELFH 445.

**ELFH 390 Advanced Occupational Subjects (2.0-18.0)**

Prerequisites: 12 semester hours in the program courses with B or better average in the 4 courses.

**ELFH 391 Advanced Occupational Experience (2.0-18.0)**

Prerequisites: 12 semester hours in the program courses with a B or better average in 4 courses.

**ELFH 411 Introduction to Human Resource Development (3.0)**

Prerequisites: ELFH 445.

**ELFH 445 Prior Learning Seminar (3.0)**

Prerequisites: Admission to the BS programs in Department of Leadership, Foundations and Human Resource Education, and extensive prior work experiences.

**ELFH 460 Adult Learning Practice (3.0)**

Prerequisites: ELFH 445.

**ELFH 490 Management Principles for Training and Development (3.0)**

Prerequisites: ELFH 445.

**ELFH 504 School Law for Teachers (3.0)**

**ELFH 515 Supervised Staff-Industry Exchange (1.0-3.0)**

Prerequisite: Career & Technical Education Teacher Certification.

**ELFH 540 Program Exit Experience (2.0-8.0)**

Prerequisites: ELFH 312, 316, 332, 445 and all but 2 courses in major.

**ELFH 574 Using Productivity Tools (3.0)**

Engineering Management

**EM 510 Industrial Accounting (3.0)**

Prerequisite: Admission to Speed Grad Professional or Grad Speed required.

**EM 515 Operations Research I: Deterministic Models (3.0)**

Prerequisite: Matrix Methods for Algebraic and Differential Equations (EAC 205).

**EM 550 Probability and Statistics for Engineers (3.0)**

Prerequisites: EAC 201.

**EM 560 Construction Management (3.0)**

Prerequisite: Admission to Speed Professional or Grad Speed required.

**EM 570 Engineering Economic Analysis (3.0)**

Prerequisite: Admission to Speed Professional or Grad Speed required.

**EM 590 Special Topics in Engineering Management (1.0-6.0)**

Prerequisite: Admission to Speed Professional or Grad Speed required.

**EM 611 Analysis of Organizational Structures (3.0)**

Prerequisite: Admission to Speed Professional or Grad Speed required.

**EM 640 Applied Systems Analysis (3.0)**

Prerequisite: Probability and Statistics for Engineers (IE 360).

**EM 646 Marketing and the Engineer (3.0)**

Prerequisite: EM 570.

**EM 660 Management Information and Control Systems (3.0)**

Prerequisite: Instructor permission required.

**EM 670 Input-Output Analysis (3.0)**

Prerequisite: EM 515.

**EM 672 Management Law for Engineers (3.0)**

Prerequisite: Admission to Speed Professional or Grad Speed required.

**EM 675 Time Series Analysis (3.0)**

Prerequisite: Probability and Statistics for Engineers (IE 360).

**EM 682 Engineered Personnel Subsystems (3.0)**

Prerequisite: Admission to Speed Professional or Grad Speed required.

**EM 683 Project Management (3.0)**

Prerequisite: Admission to Speed Professional or Grad Speed required.

**EM 690 M.Eng Thesis in Engineering Management (1.0-8.0)**

**EM 693 Independent Study in Engineering Management (1.0-6.0)**

**EM 694 Special Topics in Engineering Management (1.0-6.0)**

**EM 695 Engineering Management Seminar (1.0-6.0)**

**EM 697 M.S. Thesis in Engineering Management (1.0-6.0)**

**EM 699 Engineering Management M. Eng. Project (3.0)**

Prerequisites: Instructor permission required.

English

**ENGL 101 Introduction to College Writing - WC (3.0)**

Prerequisites: Meet admission requirements of the University of Louisville.

**ENGL 102 Intermediate College Writing - WC (3.0)**

Prerequisite: ENGL 101, or approved transfer credit for ENGL 101.

**ENGL 105 Advanced Composition for Freshmen - WC (3.0)**

Note: Credit may not be received for both 102 and 105.

**ENGL 202 Introduction to Creative Writing (3.0)**

Prerequisite: ENGL 102 or 105.

**ENGL 250 Introduction to Literature - H (3.0)**

Prerequisite: ENGL 102 or 105.

**ENGL 301 British Literature I (3.0)**

Prerequisite: ENGL 102 or 105.

**ENGL 302 British Literature II (3.0)**

Refer to: ENGL 301

**ENGL 303 Scientific and Technical Writing -WR (3.0)**

Prerequisite: ENGL 102 or 105.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 304 Creative Nonfiction (3.0)**

Prerequisites: ENGL 202 or permission of instructor.

**ENGL 305 Intermediate Creative Writing Workshop (3.0)**

Prerequisite: ENGL 202.

Note: Schedule of Courses indicates sections devoted to poetry, fiction, and drama respectively.

**ENGL 306 Business Writing -WR (3.0)**

Prerequisite: ENGL 102 or 105.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 309 Advanced Academic Writing -WR (3.0)**

Prerequisite: ENGL 102 or 105.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 310 Writing About Literature - WR (3.0)**

Prerequisite: ENGL 102 or 105.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 311 American Literature I (3.0)**

Prerequisite: ENGL 102 or 105.

**ENGL 312 American Literature II (3.0)**

Refer to: ENGL 311

**ENGL 313 British Literature from the Beginning through Shakespeare -WR (3.0)**

Prerequisite: ENGL 102 or 105; ENGL 310.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 314 British Literature from Shakespeare through the Neoclassical Period -WR (3.0)**

Prerequisite: ENGL 102 or 105; ENGL 310.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 315 Nineteenth-Century British Literature -WR (3.0)**

Prerequisite: ENGL 102 or 105; ENGL 310.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 316 Modern British and Irish Literature -WR (3.0)**

Prerequisite: ENGL 102 or 105; ENGL 310.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 317 Contemporary British and Post-Colonial Literature - WR (3.0)**

Prerequisite: ENGL 102 or 105; ENGL 310.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 318 American Literature to 1830 -WR (3.0)**

Prerequisite: ENGL 102 or 105; ENGL 310.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 319 American Literature from 1830 to 1865 -WR (3.0)**

Prerequisite: ENGL 102 or 105; ENGL 310.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 320 American Literature from 1865 to 1910 -WR (3.0)**

Prerequisite: ENGL 102 or 105; ENGL 310.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 321 American Literature from 1910 to 1960 -WR (3.0)**

Prerequisite: ENGL 102 or 105; ENGL 310.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 322 American Literature from 1960 to the Present -WR (3.0)**

Prerequisite: ENGL 102 or 105; ENGL 310.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 323 African American Literature from 1845 to the Present - WR (3.0)**

Prerequisite: ENGL 102 or 105; ENGL 310.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 325 Introduction to Linguistics (3.0)**

Note: Cross-listed with LING 325.

**ENGL 333 Shakespeare (3.0)**

Prerequisite: ENGL 102 or 105.

**ENGL 334 Shakespeare (3.0)**

Refer to: ENGL 333

**ENGL 342 Black Women Novelists - WR- CD1 (3.0)**

Note: Crosslisted with PAS 342/WGST 342.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 371 Special Topics in English and American Language and Literature (3.0)**

Prerequisite: ENGL 102 or 105.

Note: A maximum of 6 hours in special topics may be counted toward the major.

**ENGL 372 Special Topics in English and American Language and Literature (3.0)**

Refer to: ENGL 371

**ENGL 373 Women in Literature (3.0)**

Prerequisite: ENGL 102 or 105.  
Note: Cross-listed with WGST 325.

**ENGL 374 Gender and Children's Literature (3.0)**

Note: Crosslisted with WGST 326.

**ENGL 376 Literature and Mythology (3.0)**

Prerequisite: ENGL 102 or 105.

**ENGL 381 Modern Poetry in English (3.0)**

Prerequisite: ENGL 102 or 105.

**ENGL 382 Contemporary Poetry in English (3.0)**

Prerequisite: ENGL 102 or 105.

**ENGL 391 The Novel in English I (3.0)**

Prerequisite: ENGL 102 or 105.  
Note: Fall only.

**ENGL 392 The Novel in English II (3.0)**

Prerequisite: ENGL 102 or 105.  
Note: Spring only.

**ENGL 394 American Short Fiction (3.0)**

Prerequisite: ENGL 102 or 105.

**ENGL 395 The American Novel (3.0)**

Prerequisite: ENGL 102 or 105.

**ENGL 401 Honors Seminar -WR (3.0)**

Prerequisite: ENGL 102 or 105, membership in English Honors Program.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 402 Honors Seminar (3.0)**

Refer to: ENGL 401

**ENGL 450 Cooperative Internship in English Studies (1.0-3.0)**

Prerequisite: Overall 3.00 GPA in 60 credit hours (at least 24 at the University of Louisville); departmental GPA of 3.25 in at least 6 hours beyond freshman composition; ENGL 303, 306, or 309.

Note: May not be used to fulfill minimum requirements for the English major; may be repeated for up to 6 hours of credit.

**ENGL 491 Interpretive Theory: The New Criticism to the Present (3.0)**

Prerequisite: ENGL 102 or 105; ENGL 310.

**ENGL 501 Independent Study (3.0)**

Prerequisite: Overall average of 3.0, an average of 3.5 in the department, and at least 18 semester hours credit in the department.

**ENGL 502 Independent Study (3.0)**

Refer to: ENGL 501

**ENGL 503 Advanced Creative Writing I (3.0)**

Prerequisite: ENGL 305 and consent of instructor.

**ENGL 504 Advanced Creative Writing II (3.0)**

Prerequisite: ENGL 503 and consent of instructor.

**ENGL 505 Advanced Technical Writing -WR (3.0)**

Prerequisite: ENGL 303, or writing sample with instructor's consent.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 506 WR Teaching of Writing (3.0)**

Prerequisite: ENGL 309 or ENGL 310, or consent of instructor.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 515 Introduction to Old English (3.0)**

**ENGL 518 Foundations of Language (3.0)**

Note: Cross-listed with LING 518.

**ENGL 522 Structure of Modern American English (3.0)**

Note: Crosslisted with LING 522.

**ENGL 523 History of the English Language (3.0)**

Note: Crosslisted with LING 523.

**ENGL 535 Applied Linguistics for English Teachers (3.0)**

Prerequisite: ENGL 102 or ENGL 105.  
Note: Cross-listed with LING 535.

**ENGL 541 Studies in Old and Middle English Literature (3.0)**

Prerequisite: ENGL 102 or ENGL 105.

**ENGL 542 Studies in Tudor and Elizabethan Literature (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

**ENGL 543 Studies in Stuart and Commonwealth Literature (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

**ENGL 544 Studies in Restoration and Eighteenth-Century British Literature (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

**ENGL 545 Studies in British Literature of the Romantic Period (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

**ENGL 546 Studies in British Literature of the Victorian Period (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

**ENGL 547 Studies in Modern British and/or Irish Literature (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

**ENGL 548 Studies in Contemporary British and/or Irish Literature (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

**ENGL 549 Studies in Post-Colonial and/or Ethnic Literature (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

**ENGL 550 Studies in African American Literature (3.0)**

Prerequisites: ENGL 102 or 105; junior standing.

Note: Cross-listed with PAS 551.

**ENGL 551 Special Topics in Literature in English (3.0)**

Note: A maximum of 6 hours in special-topics courses may be counted toward the major.

**ENGL 552 Special Topics in Literature in English (3.0)**

Refer to: ENGL 551

**ENGL 554 Women's Personal Narratives (3.0)**

Note: Crosslisted with WGST 520.

**ENGL 561 Chaucer (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

**ENGL 562 Shakespeare (3.0)**

**ENGL 563 Milton (3.0)**

**ENGL 564 Selected Figures in American Literature (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

**ENGL 567 Post-Colonial Voices: Writing Experience in African Literature -WR (3.0)**

Prerequisites: English 102 or 105; junior standing.

Note: Crosslisted with PAS 567.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**ENGL 571 Studies in American Literature to 1865 (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

**ENGL 572 Studies in American Literature, 1865-1910 (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

**ENGL 573 Studies in American Literature, 1910-1960 (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

**ENGL 574 Studies in American Literature, 1960 - Present (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

**ENGL 575 Genre Studies in African-American Literature (3.0)**

Prerequisites: ENGL 102 or 105; junior standing.

Note: Cross-listed with PAS 575.

**ENGL 577 The Harlem Renaissance (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

Note: Cross-listed with PAS 577.

**ENGL 581 Studies in Renaissance Drama (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

**ENGL 586 Studies in American Drama (3.0)**

Prerequisite: ENGL 102 or 105; junior standing.

**ENGL 591 History of Criticism: Plato to the New Criticism (3.0)**

Prerequisite: ENGL 102 or 105, and ENGL 310.

**ENGL 599 Advanced Studies in English -WR (3.0)**

Prerequisites: ENGL 310; junior standing.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

## Equine Administration

**EQIN 101 Equine Management (3.0)**

**EQIN 202 Horse Industry Overview (3.0)**

**EQIN 203 Application of Software for Equine Operations (3.0)**

Prerequisite: CIS 100.

**EQIN 205 A Global Perspective of Equine Industry (1.0)**

**EQIN 206 Industry Speaker Series (2.0)**

**EQIN 301 Organization and Administration of Equine Operations (3.0)**

Prerequisite: EQIN 202, MGMT 301.  
Note: MGMT 301 can be taken concurrently.

**EQIN 302 Equine Economics (3.0)**

Prerequisite: ECON 201, 202, ACCT 201, 202, MGMT 201.

**EQIN 303 Equine Regulatory Law (2.0)**

**EQIN 304 Equine Marketing (3.0)**

Prerequisite: MKT 301.  
Note: MKT 301 can be taken concurrently.

**EQIN 313 Equine Commercial Law (3.0)**

**EQIN 398 Co-op (1.0-3.0)**

Prerequisite: Junior or senior standing, a 3.0 GPA, EQIN 101,202.

**EQIN 399 Co-op in Equine III (3.0)**

Prerequisites: Permission of Equine Department.

**EQIN 401 Equine Taxation (2.0)**

**EQIN 402 Enterprise Analysis and Productions Management (3.0)**

Prerequisites: CIS 300 and FIN 301.

**EQIN 403 Equine Financial Management (3.0)**

Prerequisite: CIS 300 and FIN 301.

**EQIN 404 Current Equine Issues (3.0)**

Prerequisite: EQIN 302, 401 and 402.

**EQIN 406 Horse Racing and Comparative Gaming Systems (3.0)**

Prerequisites: FIN 301 and EQIN 302.

**EQIN 490 Special Topics in Equine Administration (1.0-3.0)**

**EQIN 499 Independent Study in Equine Business (3.0)**

Prerequisite: Senior standing.



## Finance

### **FIN 201 Money Management and Personal Finance (3.0)**

**FIN 301 Corporate Finance (3.0)**  
Prerequisite: ACCT 201-202, CIS 100, ECON 201-202, and MGMT 201.

### **FIN 304 Financial Statement Analysis (3.0)**

Prerequisite: FIN 301.

### **FIN 330 Banking and Financial Administration (3.0)**

Prerequisite: FIN 301.

### **FIN 350 Risk and Insurance (3.0)**

Prerequisite: FIN 301.

### **FIN 360 Business Valuation (3.0)**

Prerequisites: FIN 301.

### **FIN 370 International Finance (3.0)**

Prerequisite: FIN 301.

### **FIN 397 Co-op in Finance I (1.0-3.0)**

Prerequisite: FIN 301, University GPA 2.5 and validation through CBPA Co-op Office.

### **FIN 398 Co-op in Finance II (1.0-3.0)**

Prerequisite: Completion of FIN 397, University GPA 2.5 and validation through CBPA Co-op Office.

### **FIN 399 Co-op in Finance III (3.0)**

Prerequisite: Permission of CBPA Co-op Office.

### **FIN 401 Investments (3.0)**

Prerequisite: FIN 301.

### **FIN 402 Security Analysis and Portfolio Management (3.0)**

Prerequisite: FIN 304, FIN 401.

### **FIN 414 Economic Analysis and Forecasting (3.0)**

Prerequisite: FIN 301, or faculty consent.  
Note: Crosslisted with ECON 414.

### **FIN 415 Capital Budgeting (3.0)**

Prerequisite: FIN 301.

### **FIN 433 Financial Markets and Institutions (3.0)**

Prerequisite: FIN 301 or faculty consent.  
Note: Cross-listed with ECON 433.

### **FIN 475 Capstone Seminar in Finance (3.0)**

Prerequisites: FIN 304, 370, 401, 414, 433, ACCT 301. (Fin 370 and 433 may be taken concurrently).

### **FIN 490 Special Topics in Finance (1.0-3.0)**

**FIN 491 Special Topics in Economics and Finance (3.0)**  
Cross-listed with ECON 491.

### **FIN 499 Independent Study in Finance (1.0-3.0)**

## French

*At least two courses on the 500 or 600 level will be offered for graduate students every semester. Course offerings are contingent upon sufficient enrollments. Regularly scheduled 500-level courses may be replaced by seminars, or studies of particular authors or specific topics.*

### **FREN 000 French Study Abroad (1.0-30.0)**

Prerequisite: A letter of intent addressed to the department chair and membership in a program approved by the department.

### **FREN 121 Basic French I (4.0)**

Note: Not counted toward major.

### **FREN 122 Basic French II (4.0)**

Note: Not counted toward major.

Refer to: FREN 121.

### **FREN 141 Intensive French I (6.0)**

Note: Not counted toward major.

### **FREN 142 Intensive French II (6.0)**

Prerequisite: FREN 141.

Note: Does not count toward major in French.

### **FREN 221 Intermediate French (4.0)**

Prerequisites: FREN 121 and FREN 122.

Note: Does not count toward major in French.

### **FREN 313 Special Topics in French Literature, Language, and Culture (3.0)**

Prerequisite: FREN 221 or 142 or equivalent.

Note: May be repeated once for credit.

### **FREN 320 French Skills Overview (3.0)**

Prerequisites: FREN 221 or equivalent.

### **FREN 321 French Conversation (3.0)**

Prerequisite: FREN 320.

### **FREN 322 Written Expression -WR (3.0)**

Prerequisite: FREN 320.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **FREN 323 French For The Workplace (3.0)**

Prerequisite: FREN 321 or 322 or faculty consent.

### **FREN 325 French Theater Practicum (3.0)**

Prerequisite: FREN 321 or faculty consent.

### **FREN 326 Francophonie: Text and Context (3.0)**

Prerequisites: FREN 320 or faculty consent.

### **FREN 327 The French Detective Story (3.0)**

Prerequisites: FREN 320 or faculty consent.

### **FREN 328 French Cinema (3.0)**

Prerequisites: FREN 320 or consent of instructor.

### **FREN 329 Paris in Literature and Film (3.0)**

Prerequisites: FREN 320 or consent of instructor.

### **FREN 331 French Civilization (3.0)**

Prerequisite: FREN 321 and 322 or faculty consent.

### **FREN 332 France Today (3.0)**

Prerequisite: FREN 321 or 322 or faculty consent.

### **FREN 440 Cooperative Internship (1.0-3.0)**

Note: See requirements for cooperative internship program on page 25.

Note: May be used to fulfill the minimum requirements for the major only if approved in advance by the department chair.

### **FREN 455 Reading in French (3.0)**

Prerequisite: FREN 321 or FREN 322 or faculty consent.

### **FREN 500 French Work Exchange (3.0-6.0)**

Prerequisite: Membership in a University of Louisville Work-Exchange Program with Montpellier administered by the International Center.

Note: Only three credits can be applied to a French major.

### **FREN 506 Francophone Women Writers (3.0)**

Prerequisites: FREN 321 and 322 or faculty consent.

### **FREN 522 French Phonetics and Diction (3.0)**

Prerequisite: 6 hours of French at 300+ level or consent of instructor.

### **FREN 523 Advanced Communication Skills (3.0)**

Prerequisite: FREN 321-322 or faculty consent.

### **FREN 524 Theory and Practice of Translation (3.0)**

Prerequisites: FREN 455.

### **FREN 531 Special Topics in Literature and Cultural Studies (3.0)**

Prerequisites: FREN 455 or faculty consent.

### **FREN 551 French Oral Practicum (3.0)**

Prerequisites: Membership in the UofL Work-Exchange Program with Montpellier administered by the International Center.

Note: Only 3 credits total count toward French minor.

### **FREN 552 French Work - Exchange Research (3.0)**

Prerequisites: Membership in the U of L Work-Exchange Program with Montpellier administered by International Center.

Note: Only 3 credits total count toward French major.

### **FREN 561 Independent Study I (1.0-3.0)**

Prerequisite: Consent of department.

### **FREN 562 Independent Study II (1.0-3.0)**

Refer to: FREN 561

### **FREN 590 Senior Capstone (3.0)**

Prerequisites: Declared French major, Senior standing and FREN 455 and 3 hours at the 500 level in French.

### **FREN 599 Special Topics (3.0)**

Prerequisite: Consent of instructor.

## General Studies

### **GEN 101 Arts and Sciences Orientation (1.0)**

Note: Required of students with fewer than 24 hours credit.

### **GEN 301 Topics in Experiential Learning (1.0-12.0)**

Prerequisites: Approval of chair of the department of the student's major and approval of the dean.

### **GEN 471 Senior Proseminar (3.0)**

Prerequisite: Junior standing and faculty consent.

## Geography

### **GEOG 157 Elements of GIS (3.0)**

### **GEOG 200 Power of Place - SB (3.0)**

### **GEOG 301 Geography of Kentucky (3.0)**

### **GEOG 305 Historical Geography of the United States (3.0)**

Note: Cross-listed with HIST 305.

### **GEOG 307 Geography of the United States and Canada (3.0)**

### **GEOG 314 Africa: Environment and Resources (3.0)**

Note: Crosslisted with PAS 386.

### **GEOG 316 Geography of South Asia (3.0)**

### **GEOG 317 Geography of Russia (3.0)**

### **GEOG 327 Economic Geography (3.0)**

### **GEOG 328 Urban Geography (3.0)**

### **GEOG 329 Political Geography (3.0)**

### **GEOG 331 Population Geography (3.0)**

### **GEOG 350 Introduction to Mapping (3.0)**

Prerequisite: MATH 112 or 190.  
Note: Fall only.

### **GEOG 355 Remote Sensing (3.0)**

Prerequisites: GEOS 200 or GEOS 301; PHYS 111 or equivalent recommended.

### **GEOG 356 Quantitative Methods in Geography (3.0)**

Prerequisite: MATH 109.

**GEOG 357 Introduction to Geographic Information Systems (3.0)**

Prerequisite: GEOG 350 or faculty consent.

**GEOG 361 Human Societies and Environments -WR (3.0)**

Prerequisite: Natural Sciences general education requirements.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**GEOG 362 Disease, Ecology and Environmental Management in Africa -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Crosslisted with PAS 384.

**GEOG 367 Applications Development for GIS (3.0)**

Prerequisites: GEOG 357.

**GEOG 378 The North American City -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**GEOG 390 Special Topics (3.0)**

Note: May be repeated for different topics up to a limit of 12 hours.

**GEOG 391 Independent Study (1.0-3.0)**

Prerequisite: Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.

**GEOG 399 Senior Honors Seminar - WR (3.0)**

Prerequisite: Junior class standing; admission to the departmental honors program.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**GEOG 401 Cooperative Internship (3.0)**

Prerequisite: Department sponsorship and approval.

Note: See statement on Cooperative Internship, page 25.

**GEOG 441 Senior Thesis Proposal- WR (3.0)**

Prerequisites: GEOG 350, 356 and 357.

Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

**GEOG 442 Senior Thesis- WR (3.0)**

Prerequisites: GEOG 441.

Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

**GEOG 499 Senior Honors Thesis (3.0)**

Prerequisite: Senior standing; admission to departmental honors program.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**GEOG 501 Kentucky Field Course (3.0)**

Prerequisite: 6 hrs. Geography or consent of instructor.

**GEOG 510 Geography of the Ancient World (3.0)**

Prerequisites: GEOG 200 or HIST 101 or ARTH 250, and two 300 level courses in Geography, Anthropology, History, Art History or Humanities, or consent of instructor.

**GEOG 520 Geography and Nutrition Among African and African-American Populations (3.0)**

Prerequisite: Consent of instructor.  
Note: Cross-listed with PAS 560.

**GEOG 521 Medical Geography (3.0)**

Prerequisites: Faculty Consent.

**GEOG 522 GIS and Public Health (3.0)**

Prerequisites: Consent of instructor.

**GEOG 528 Planning, History and Issues (3.0)**

Prerequisite: GEOG 328.  
Note: Fall only.

**GEOG 530 Transportation Geography (3.0)**

Prerequisite: GEOG 200 or consent of instructor.

**GEOG 531 GIS & Urban Demographic Analysis (3.0)**

Prerequisites: GIS knowledge or concurrent tutorial.

**GEOG 535 GIS and Retail Site Analysis (3.0)**

Prerequisite: GIS knowledge or concurrent tutorial.

**GEOG 541 Teaching Geography (3.0)**

Note: Credit may not be earned in both 541 and 641.

**GEOG 550 The Greater Louisville Region (3.0)**

Prerequisite: GEOG 328 or consent of instructor.

**GEOG 555 Surveying and Mapping (3.0)**

Prerequisites: MATH 190 and GEOG 350.

**GEOG 557 Advanced Geographic Information Systems (3.0)**

Prerequisite: GEOG 357.

**GEOG 561 Urban Environmental Quality (3.0)**

Prerequisite: Consent of instructor.

**GEOG 578 Downtown Change and Development (3.0)**

**GEOG 583 Spatial and Non-Spatial Database Management (3.0)**

Prerequisites: GEOG 357.

**GEOG 590 Special Topics (3.0)**

Note: May be repeated for different topics up to a limit of 12 hours.

**GEOG 599 Directed Readings in Geography (1.0-4.0)**

Prerequisite: Advanced courses in geography or related fields; permission of major department.

## Geosciences

**GEOG 200 The Global Environment - S (3.0)**

**GEOG 201 Physical Geology - S (3.0)**

**GEOG 203 Physical Geology Laboratory - SL (1.0)**

Prerequisite: GEOG 201 or concurrent registration in GEOS 201.

**GEOG 220 Contemporary Issues in Meteorology - S (3.0)**

Note: Cross listed with PHYS 220.

**GEOG 301 Geology for Scientists and Engineers (3.0)**

**GEOG 305 Energy and Mineral Resources (3.0)**

**GEOG 360 Global Environmental Change (3.0)**

Prerequisites: GEOG 200 or 301, or GEOG 200 or ANTH 202 or BIOL 240 or PHYS 220.  
Note: Spring only.

**GEOG 363 Climatology (3.0)**

Prerequisites: GEOG 200 or 220.  
Note: Fall only.

**GEOG 365 Biogeography (3.0)**

Prerequisites: GEOG 200 or GEOS 220 or GEOS 301.  
Note: Spring only.

**GEOG 367 Geomorphology (3.0)**

Prerequisites: GEOG 200 or 301.  
Note: Fall only.

**GEOG 370 Environmental Geochemistry (3.0)**

Prerequisites: GEOG 200 or 301; CHEM 101 and 103.

**GEOG 399 Senior Honors Seminar (3.0)**

Prerequisite: Junior standing; admission to the departmental honors program.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**GEOG 510 Earth & Space Science for Teachers (3.0)**

Prerequisites: GEOG 200 or GEOS 310 and junior standing.

**GEOG 564 Hydrology (3.0)**

Prerequisites: GEOG 200 or GEOS 301.

**GEOG 565 Natural Hazards (3.0)**

Prerequisites: GEOG 200 or 301.

**GEOG 590 Selected Topics in Geosciences (3.0)**

Prerequisite: Consent of instructor.

## German

**GERM 000 German Study Abroad (1.0-15.0)**

Prerequisite: Membership in a Language Study Abroad Program and/or programs approved by the Department of Classical and Modern Languages.

**GERM 121 Basic German I (4.0)**

Prerequisites: GERM 121 or equivalent.

**GERM 141 Intensive German I (6.0)**

Prerequisite: GERM 141 or equivalent.

**GERM 221 Intermediate German (4.0)**

Prerequisite: GERM 121-122 or equivalent.

**GERM 311 Independent Study (3.0)**

Prerequisites: Permission of instructor and department.

**GERM 313 Readings in German Literature: Themes and Great Issues (3.0)**

Prerequisite: GERM 221 or 142 or equivalent.

**GERM 321 German Conversation and Composition I (3.0)**

Prerequisite: GERM 221 or 142 or equivalent.

**GERM 322 German Conversation and Composition II (3.0)**

**GERM 500 German Study Abroad (1.0-15.0)**

Prerequisite: Membership in a University of Louisville Language Study Abroad Program or a program approved by the Department.

**GERM 561 Independent Study (3.0)**

Prerequisites: Permission of instructor and department.

**GERM 599 Special Topics (3.0)**

Prerequisites: Permission of instructor and department.

## General Engineering Studies

**GES 100 Campus Culture for Engineering Students (1.0)**

**GES 180 Introduction to Computer-Aided Engineering (2.0)**

Prerequisite: Calculus I.

Note: Restricted to B.S.E.S. evening students only.

**GES 280 Structured & Event-Driven Programming (3.0)**

Prerequisite: GES 180.

Note: Restricted to B.S.E.S. Evening Students only.

**GES 350 Engineering Information Resources (1.0)**

**GES 380 Computer Aided Design (3.0)**

Prerequisites: GES 180, EG 214.  
Note: Restricted to B.S.E.S. evening students only.

**GES 393 Independent Study in General Engineering (1.0-6.0)**

Prerequisites: Consent of a faculty sponsor.

**GES 400 Special Topics in General Engineering (1.0-6.0)**

**GES 490 Ethics & Values in Engineering (1.0)**

Prerequisites: Senior Standing.

**GES 496 Engineering Capstone Design I (3.0)**

Prerequisites: Faculty consent & students having completed Bachelor of Science in Engineering Science Core Curriculum and 75% of Concentration courses.

**GES 497 Engineering Capstone Design II (3.0)**

Prerequisites: GES 496.

Greek

**GR 101 Elementary Greek (Classical) I (3.0)**

**GR 102 Elementary Greek (Classical) II (3.0)**

Refer to: GR 101

**GR 201 Intermediate Greek I (3.0)**

Prerequisite: GR 102.

**GR 202 Intermediate Greek II (3.0)**

Refer to: GR 201

**GR 301 Advanced Greek I (3.0)**

Prerequisites: Greek 202 or consent of instructor.

**GR 302 Advanced Greek II (3.0)**

Prerequisites: Greek 202 or consent of instructor.

**GR 303 Greek Prose Composition (3.0)**

Prerequisites: Greek 202 or consent of instructor.

**GR 401 Selected Readings I (3.0)**

Prerequisites: Greek 202 or consent of instructor.

**GR 402 Selected Readings II (3.0)**

Prerequisites: Greek 202 or consent of instructor.

History

**HIST 101 History of Civilizations I - SB (3.0)**

**HIST 102 History of Civilizations II - SB (3.0)**

**HIST 105 Honors: History of Civilizations I -SB (3.0)**

Prerequisites: Admission to the Honors Program.

**HIST 106 Honors: History of Civilizations II -SB (3.0)**

Prerequisites: Admission to the Honors Program.

**HIST 211 American History I (3.0)**

**HIST 212 American History II (3.0)**

**HIST 301 Early Political Thought (3.0)**

Note: Cross-listed with POLS 381.

**HIST 302 Modern Political Thought (3.0)**

Note: Cross-listed with POLS 382.

**HIST 303 Field Methods in Archaeology (3.0)**

Prerequisite: Permission of instructor required.

Note: Cross-listed with ANTH 377.

**HIST 304 Historical Methods -WR (3.0)**

Prerequisites: HIST 101, 102, 105 or 106.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HIST 305 Historical Geography of the United States (3.0)**

Note: Cross-listed with GEOG 305.

**HIST 308 Europe from 1500 to the French Revolution (3.0)**

**HIST 309 Europe from 1800 to the Present (3.0)**

**HIST 310 Studies in History (3.0)**

**HIST 311 United States Economic History (3.0)**

**HIST 313 Comparative Environmental History (3.0)**

**HIST 314 History of American Foreign Relations (3.0)**

**HIST 315 American Constitutional History I (3.0)**

**HIST 316 American Constitutional History II (3.0)**

Refer to: HIST 315.

**HIST 318 U.S. in the Sixties (3.0)**

**HIST 319 African American History I - CD1 (3.0)**

Note: Crosslisted with PAS 319-320.

**HIST 320 African American History II - CD1 (3.0)**

Refer to: HIST 319.

**HIST 321 Black Culture and U.S. Democracy (3.0)**

**HIST 322 The History of the Civil Rights Movement, 1900 to Present (3.0)**

Note: Crosslisted with PAS 322.

**HIST 323 Modern American Social Movements (3.0)**

**HIST 324 The History of Women, 1700 to the Present - CD2 (3.0)**

Note: Credit may not be received for this course and WGST 331.

**HIST 326 History of Childhood in America -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Credit may not be earned for this course and WGST 332.

**HIST 327 American Labor History (3.0)**

**HIST 328 History of American Medicine -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HIST 329 History of the New South (3.0)**

**HIST 330 U.S. Financial History (3.0)**

**HIST 331 Colonial Latin America (3.0)**

**HIST 332 Latin America, 1820 to Present (3.0)**

**HIST 333 Women in Latin American History - CD1 (3.0)**

Prerequisites: History 331 or 332 recommended.

Note: Credit may not be earned for this course and WGST 333.

**HIST 339 Japanese Business and Culture (3.0)**

**HIST 340 Ancient Mediterranean World (3.0)**

**HIST 341 The Ancient Near East (3.0)**

**HIST 342 Ancient Greece (3.0)**

**HIST 343 The Roman World (3.0)**

**HIST 345 Culture of the Ancient Near East (3.0)**

Note: Credit may not be received for this course and HUM 300.

**HIST 346 Greek and Roman Culture (3.0)**

Note: Credit may not be received for this course and HUM 301.

**HIST 350 Origins of Christianity (3.0)**

**HIST 351 Medieval Europe I (3.0)**

**HIST 352 Medieval Europe II (3.0)**

Refer to: HIST 351.

**HIST 353 Europe in the Sixteenth Century (3.0)**

**HIST 354 Renaissance Culture (3.0)**

Note: Credit may not be received for this course and HUM 303.

**HIST 355 European Ideas and Ideologies: Selected Topics -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HIST 356 Islamic Middle East - WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HIST 357 Middle Eastern History, 1453 to the Present - WRCD1 (3.0)**

Note: Approved for Arts and Sciences upper-level requirement in written communication (WR).

**HIST 358 The Crusades - WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HIST 359 The Arab-Israeli Conflict (3.0)**

**HIST 360 Modern Jewish History to 1900 - CD2 (3.0)**

**HIST 361 Modern Jewish History: The 20th Century - CD2 (3.0)**

**HIST 362 The United States and the Middle East (3.0)**

**HIST 363 Russian History I - CD2 (3.0)**

**HIST 364 Russian History II - CD2 (3.0)**

Refer to: HIST 363.

**HIST 365 English History: Roman and Medieval England to 1450 (3.0)**

**HIST 366 English History: Tudor Age to Welfare State (3.0)**

**HIST 367 British Imperialism -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HIST 368 History of France, 1598-1799 (3.0)**

**HIST 369 History of France, 1799 to Present (3.0)**

**HIST 375 Golden Age of Spain (3.0)**

**HIST 376 War in the Modern Middle East -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HIST 377 The Ottoman Empire to 1800 - WRCD1 (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HIST 378 The Ottoman Empire and Modern Turkey from 1800 - WRCD1 (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HIST 379 Peoples of the Middle East (3.0)**

- HIST 380 Hollywood and History (3.0)**  
**HIST 384 Modern Culture (3.0)**  
 Note: Credit may not be received for this course and HUM 304.
- HIST 385 Russian Cultural History - WRCD2 (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 386 Modern Germany, 1848-1945: The Struggle for Unity (3.0)**
- HIST 387 The Holocaust and the Western Imagination - CD2 (3.0)**  
 Note: Co-listed with HUM 387.  
 Note: Credit may not be received for this course and HUM 387.
- HIST 389 Psychohistory -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 390 History of Islamic Central Asia - WRCD2 (3.0)**  
 Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
- HIST 392 Modern African Cultures (3.0)**  
 Note: Credit may not be received for this course and HUM 384.
- HIST 393 Ancient African Civilization (3.0)**  
 Note: Cross-listed with PAS 393.
- HIST 394 Formation of Modern Africa (3.0)**  
 Note: Cross-listed with PAS 394.
- HIST 395 Contemporary Africa (3.0)**  
 Note: Cross-listed with PAS 395.
- HIST 396 History of India - WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 398 Modern China (3.0)**
- HIST 399 The Vietnam War (3.0)**
- HIST 401 Cooperative Internship in History (1.0-3.0)**  
 Prerequisite: See requirements for Cooperative Internship Program on page 25.
- HIST 410 Honors History- WR (3.0)**  
 Prerequisite: Admission to the Honors program.  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 418 United States Military History (3.0)**
- HIST 419 Western Military History - WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 498 Honors Seminar -WR (3.0)**  
 Prerequisite: Admission to the Honors Program.  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 499 Senior Honors Thesis - WR (3.0)**  
 Prerequisite: Admission to the Honors program.  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 501 Independent Study (3.0)**  
 Prerequisites: Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.
- HIST 502 Independent Study (3.0)**  
 Refer to: HIST 501
- HIST 503 Advanced Studies in History (3.0)**  
 Prerequisite: Consent of instructor.
- HIST 504 Philosophy of History (3.0)**  
 Note: Cross-listed with PHIL 504.
- HIST 505 U. S. Cultural History: The 19th Century -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 506 Women in 19th Century America - WR (3.0)**  
 Prerequisites: Completion of English 102,105, or the equivalent.  
 Note: Crosslisted with WGST 533.  
 Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).  
 Note: Credit may not be earned for both HIST 506/WGST 533 and WGST 633.
- HIST 508 American Environmental History -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 510 Studies in American History (3.0)**
- HIST 511 History of the Old South - WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 512 History of the Jews in America -WR (3.0)**  
 Note: Approved for the Arts and Science upper-level requirement in written communication (WR).
- HIST 514 United States Peace Movement (3.0)**
- HIST 515 American Legal History - WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 516 History of American Civil Liberties -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 518 Antebellum United States, 1800-1860 -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 519 Gilded Age and Progressive Era United States, 1877-1929 -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 521 Colonial America to 1765-WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 522 The American Revolution and the Confederation (3.0)**
- HIST 524 United States Civil War and Reconstruction -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 528 Recent American History, 1929-1945 -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 529 Recent American History, 1945 to Present -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 533 Twentieth-Century Latin America -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 534 The U.S. and Latin America -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 535 History of Mexico - WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 537 Black Radicalism (3.0)**
- HIST 538 African-American Leadership -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 540 Advanced Studies in History -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 542 Studies in Graeco-Roman History -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 545 Studies in the Ancient Near East (3.0)**
- HIST 547 Studies in Russian History -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 551 Studies in Medieval History -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 552 Topics in Medieval History (3.0)**
- HIST 553 The Medieval City -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 554 Spain and Portugal in the Middle Ages -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 555 English Medieval History, 1066 to 1500 -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 559 U.S. and the Cold War Policy -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 560 The Great War 1914-1918 - WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 561 U.S. and Vietnam -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 562 The Middle Eastern Wars I (3.0)**
- HIST 563 The Middle Eastern Wars II -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 571 The Renaissance -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 572 Age of the Reformation - WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 575 Tudor England, 1485-1603 -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 577 The French Revolution and Napoleon -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 579 History of European Ideas: Selected Topics -WR (3.0)**  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- HIST 582 Contemporary Europe Since 1945 (3.0)**
- HIST 583 Women in the Twentieth Century in Europe and the U.S.-WR (3.0)**  
 Note: Cross-listed with WGST 531.  
 Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
 Note: Credit may not be earned for HIST 583/WGST 531 and WGST 631.

**HIST 585 The Third Reich (3.0)**

**HIST 587 The Russian Revolutions - WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HIST 588 Feminism in Western Civilization, 1790-1920 -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Credit may not be earned for HIST 588 or WGST 530 and WGST 630.

**HIST 589 History of American Sexualities -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Credit may not be earned for this course and WGST 532.

**HIST 590 Studies in African History -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Cross-listed with PAS 590.

**HIST 591 Civilizations of Ancient and Medieval India - WR (3.0)**

Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

**HIST 592 Civilizations of Modern India - WR (3.0)**

Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

**HIST 593 American Image of the Middle East -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HIST 594 Studies in Middle Eastern History -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HIST 595 Principles of Cultural History -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Credit may not be received for this course and HUM 595.

**HIST 596 History of the Future - WR (3.0)**

Note: Approved for Arts & Sciences upper-level requirement in written communication (WR).

**HIST 597 Introduction to Public History (3.0)**

**HIST 598 Introduction to Archives Administration (3.0)**

**HIST 599 Oral History -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Honors

**HON 101 Honors Modes of Inquiry (1.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 201 The Liberal Arts and Sciences (1.0)**

Prerequisites: Permission of the Director of the University Honors Program and of the Overseers Scholars Program are required for registration.

**HON 202 Windows on the World (1.0)**

Prerequisite: Permission of the Director of the University Honors Program and of the Overseers Scholars Program are required for registration.

**HON 211 Topics in Arts and Oral Communication - AOC (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 212 Topics in History and Oral Communication - OCSB (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 213 Topics in Humanities and Oral Communication - HOC (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 214 Topics in Social Sciences and Oral Communication - OCSB (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 215 Topics in Arts and Written Communication - AWC (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 216 Topics in History and Written Communication - SBWC (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 217 Topics in Humanities and Written Communication - HWC (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 218 Topics in Social Sciences and Written Communication - SBWC (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 219 Topics in Mathematics and Written Communication - MWC (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

Note: This course satisfies General Education Learning Outcomes for Mathematics and Written Communication.

**HON 320 Research Colloquium in Humanities (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 321 Research Colloquium in Natural Sciences (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 322 Research Colloquium in Social Sciences (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 331 Honors Seminar in Humanities (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 336 Honors Seminar in Humanities -WR (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

Note: Approved for the Arts and Sciences upper-level requirements in written communication (WR).

**HON 341 Honors Seminar in Social Sciences (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 346 Honors Seminar in Social Sciences / WR (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HON 351 Honors Seminar in Natural Sciences (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 356 Honors Seminar in Natural Sciences / WR (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HON 399 Overseers International Seminar (1.0)**

Prerequisite: Permission of Honors Director and concurrent enrollment in correlated Honors Scholars Seminar.

**HON 410 Capstone Senior Seminar in Humanities (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 411 Capstone Senior Seminar in Natural Sciences (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 412 Capstone Senior Seminar in Social Sciences (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 420 Honors Thesis - WR (3.0)**

Prerequisites: Senior Standing.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Note: Honors Thesis hours may be counted for either Honors credit or departmental credit, not both.

**HON 431 Honors Seminar in Humanities (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 436 Honors Seminar in Humanities / WR (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HON 441 Honors Seminar in Social Sciences (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 446 Honors Seminar in Social Sciences / WR (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HON 451 Honors Seminar in Natural Sciences (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

**HON 456 Honors Seminar in Natural Sciences / WR (3.0)**

Prerequisites: Permission of the Director of the University Honors Program.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

## Health Promotion, Physical Education, and Sport Studies

### **HPES 100 Skills for Healthy Lifestyles (2.0)**

### **HPES 101 Beginning Swimming (1.0)**

### **HPES 102 Advanced Swimming (1.0)**

Prerequisite: HPES 101 or equivalent.

### **HPES 103 Life Saving (1.0)**

Prerequisite: HPES 102 or equivalent or Red Cross Junior Life Saving Certificate.

### **HPES 104 Scuba (1.0)**

Prerequisite: HPES 101.

Note: The open water dives are not included in the scope of the course.

### **HPES 108 Water Fitness (1.0)**

### **HPES 109 Weight Training (1.0)**

### **HPES 110 Physical Fitness and Conditioning (1.0)**

### **HPES 111 Aerobic Fitness (1.0)**

### **HPES 112 Mini-Marathon Training (1.0)**

### **HPES 114 Fitness Walking (1.0)**

### **HPES 115 Step Aerobics (1.0)**

### **HPES 116 Introduction to Yoga (1.0)**

### **HPES 117 Intermediate Yoga (1.0)**

Prerequisite: HPES 116 or consent of instructor.

### **HPES 118 Beginning Martial Arts (1.0)**

### **HPES 119 Intermediate Martial Arts (1.0)**

### **HPES 120 Beginning Racquetball (1.0)**

### **HPES 121 Billiards and Table Games (1.0)**

### **HPES 122 Badminton (1.0)**

### **HPES 123 Tennis (1.0)**

### **HPES 124 Advanced Tennis (1.0)**

Prerequisite: HPES 123 or equivalent.

### **HPES 125 Golf (1.0)**

### **HPES 126 Tumbling and Apparatus (1.0)**

### **HPES 127 Beginning Fencing (1.0)**

### **HPES 128 Pickleball (1.0)**

### **HPES 132 Canoeing (1.0)**

Prerequisite: HPES 102 or equivalent.

### **HPES 133 Backpacking and Hiking (1.0)**

### **HPES 134 Rappelling (1.0)**

### **HPES 136 Soccer (1.0)**

### **HPES 137 Volleyball (1.0)**

### **HPES 138 Basketball (1.0)**

### **HPES 140 Softball (1.0)**

### **HPES 144 Physical Activity for the Older Adult (1.0)**

### **HPES 145 Activity for the Physically Challenged (1.0)**

Prerequisite: Permission of instructor.

### **HPES 150 Special Topics: Physical Education Activities (1.0)**

### **HPES 160 Beginning Aerobic Dance (1.0)**

### **HPES 161 Intermediate Aerobic Dance (1.0)**

Prerequisite: HPES 160 or equivalent.

### **HPES 162 Beginning Modern Dance (1.0)**

### **HPES 163 Intermediate Modern Dance (1.0)**

Prerequisite: HPES 162 or faculty consent.

### **HPES 164 Beginning Country Western Dance (1.0)**

### **HPES 165 Ballroom Dance (1.0)**

### **HPES 166 African Dance (1.0)**

### **HPES 167 Country Line Dance (1.0)**

### **HPES 180 First Aid and Safety Education (3.0)**

### **HPES 181 Academic Orientation (1.0)**

Note: Crosslisted with EDTL 101.

### **HPES 184 Healthy Lifestyles I (3.0)**

### **HPES 201 Introduction to HPES (2.0)**

### **HPES 202 Human Anatomy & Physiology (3.0)**

### **HPES 225 Fundamental Outdoor Living Skills (2.0)**

Prerequisite: Physical Education major or permission of instructor.

### **HPES 251 Officiating (2.0)**

### **HPES 252 Coaching of Aquatics (2.0)**

Prerequisite: Senior life saving.

### **HPES 253 Baseball Coaching (2.0)**

### **HPES 254 Track and Field Coaching (2.0)**

### **HPES 255 Fundamentals of Football Coaching (2.0)**

### **HPES 256 Fundamentals of Basketball Coaching (2.0)**

### **HPES 263 Environmental Biology (3.0)**

Note: Cross-listed with BIOL 263.

### **HPES 270 History and Foundations of Health and Physical Education (3.0)**

### **HPES 274 Physical Education and Health for Elementary Teachers (3.0)**

### **HPES 275 Elementary School Physical Education Laboratory (1.0)**

Prerequisite: Concurrent or previous registration in HPES 274.

### **HPES 293 Social and Psychological Aspects of Teaching Physical Education - SBCE2 (3.0)**

### **HPES 300 The Theory and Art of Movement (2.0)**

### **HPES 302 Nutrition in Healthy Living (3.0)**

### **HPES 303 Human Nutrition (3.0)**

Prerequisite: CHEM 101 or 201 or CHEM 105.

### **HPES 310 Healthy Lifestyles II (3.0)**

### **HPES 320 Growth and Motor Development Across the Lifespan (3.0)**

Note: Fieldwork required.

### **HPES 326 Rhythms, Gymnastics, and Dance for Elementary School Children (3.0)**

### **HPES 359 Fundamentals of Camping and Outdoor Recreation (3.0)**

Prerequisite: HPES 201 or consent of instructor.

### **HPES 377 HPES Tests and Measurements (3.0)**

Prerequisite: Junior class standing.

### **HPES 380 Medicinals: Their Use and Misuses (3.0)**

Prerequisite: Junior standing.

Note: Nursing students may not register for credit without consent of the instructor.

### **HPES 382 Peer Education in HPES (3.0)**

### **HPES 383 Public Health Principles and Practices (3.0)**

Note: Offered as needed.

### **HPES 384 Program Planning in Health Education and Promotion (3.0)**

Prerequisite: HPES 310 or consent of instructor.

### **HPES 385 Methods in Health Education (3.0)**

Prerequisites: HPES 384 or permission of instructor.

### **HPES 386 Structure and Function in the Movement Sciences (3.0)**

Prerequisites: HPES 202.

### **HPES 387 Biomechanics (3.0)**

Prerequisites: HPES 202 and HPES 320.

### **HPES 388 Principles of Athletic Conditioning (3.0)**

Prerequisite: Admission to the School of Education and Human Development.

### **HPES 389 Prevention and Care of Athletic Injuries I (3.0)**

Prerequisite: Admission to the School of Education and Human Development.

### **HPES 392 Principles of Sport and Exercise Psychology (3.0)**

Prerequisite: Admission to the College of Education and Human Development.

### **HPES 395 Personal Trainer Workshop (3.0)**

Prerequisite: Admission to the School of Education.

### **HPES 396 Health/Fitness Instructor Lab (3.0)**

Prerequisite: Admission to the School of Education.

### **HPES 397 Special Topics in HPES (1.0-3.0)**

Prerequisite: Sophomore standing.

### **HPES 402 Cooperative Internship (1.0-3.0)**

### **HPES 409 Experiential Outdoor Education Leadership (3.0)**

Prerequisite: Major in HPES or consent of instructor.

### **HPES 410 Theories of Sport Pedagogy (3.0)**

Note: Taken concurrently with HPES 411.

### **HPES 411 Theory and Analysis of Team Sport Skills (3.0)**

Prerequisite: HPES 320.

Note: Taken concurrently with HPES 410.

### **HPES 412 Theory and Analysis of Individual Sport Skills (3.0)**

Prerequisite: HPES 411.

### **HPES 418 Diverse Populations in Physical Activity and Health - CD2 (3.0)**

### **HPES 455 Current Trends and Studies in HPES (3.0)**

Prerequisite: Senior standing.

### **HPES 460 Human Body in Health and Disease (3.0)**

### **HPES 463 Sexuality Education (3.0)**

### **HPES 469 Administering Health Promotion and Disease Prevention Programs (3.0)**

Prerequisite: Senior standing.

### **HPES 486 Advanced Exercise Physiology (3.0)**

Prerequisites: HPES 202, 387 or permission of instructor.

### **HPES 492 Cooperative Internship/Practicum (3.0)**

Prerequisite: Permission of instructor.

Note: Course may be repeated for a maximum of 6 credits. Pass/Fail only.

### **HPES 499 Directed Readings in HPES (1.0-3.0)**

Prerequisite: Faculty consent.

### **HPES 501 Stress and Tension Control (3.0)**

Prerequisite: HPES 202 or equivalent.

### **HPES 503 Obesity: Causes, Control (3.0)**

Prerequisite: HPES 202 or equivalent.

### **HPES 504 Physical Activity and Health (3.0)**

### **HPES 505 Stress and Disease (3.0)**

Prerequisite: HPES 202 or equivalent.

### **HPES 530 Nutrition and Athletic Performance (3.0)**

Prerequisites: HPES 302, 303 or consent of instructor.

### **HPES 531 Leadership in Health Promotion (3.0)**

Note: Crosslisted with HPES 631.

### **HPES 562 Alcohol and Drug Education (3.0)**

### **HPES 564 Women's Health Issues - CD2 (3.0)**

Note: Crosslisted with WGST 535.

**HPES 565 Nutrition for Children and Adolescents (3.0)**

**HPES 567 Healthy Sexuality and Aids Education (3.0)**

**HPES 575 Administration of Physical Education Program and Athletics (3.0)**

**HPES 589 Prevention and Care of Athletic Injuries II (3.0)**  
Prerequisites: HPES 389 or equivalent or consent of instructor.

**HPES 597 Special Topics in HPES (1.0-3.0)**  
Prerequisite: Consent of instructor.

**HPES 598 Independent Study in HPES (1.0-3.0)**

## Humanities

*A wide range of approved courses is available in the Departments of English, Fine Arts, Classical and Modern Languages, Music, History, Philosophy and Theatre Arts. In addition, the Humanities Division offers the following courses in interdisciplinary Humanities.*

**HUM 101 World Literature to 1700 - H (3.0)**

**HUM 102 World Literature After 1700 - H (3.0)**

**HUM 151 Creativity and the Arts - A (3.0)**

**HUM 152 Cultures of America - HCD1 (3.0)**

**HUM 199 Writing in the Humanities - WC (3.0)**  
Prerequisites: English 101.  
Note: Credit may not be earned for this course and ENGL 102.

**HUM 215 Introduction to the Study of Religion - H (3.0)**

**HUM 216 Introduction to World Religions - HCD1 (3.0)**

**HUM 300 Ancient Near Eastern Cultures (3.0)**  
Prerequisite: Sophomore standing.

**HUM 301 Ancient Greek and Roman Cultures (3.0)**  
Prerequisite: Sophomore standing.

**HUM 302 Medieval Culture (3.0)**  
Prerequisite: Sophomore standing.

**HUM 303 Renaissance Cultures (3.0)**  
Prerequisite: Sophomore standing.

**HUM 304 Culture of the Modern Period (3.0)**  
Prerequisite: Sophomore standing.

**HUM 305 American Culture (3.0)**  
Prerequisite: Sophomore standing.

**HUM 306 Survey of Islamic Thought and Culture (3.0)**  
Prerequisites: Sophomore standing.

**HUM 307 East Asian Cultures - CD1 (3.0)**  
Prerequisite: Sophomore standing.

**HUM 309 Survey of Jewish Thought and Culture (3.0)**

Prerequisite: Sophomore standing.

**HUM 311 Hebrew Bible/ Old Testament (3.0)**  
Prerequisite: Sophomore standing.

**HUM 312 New Testament (3.0)**  
Prerequisite: Sophomore standing.

**HUM 316 Modern Islamic Thought (3.0)**  
Prerequisite: Sophomore standing.

**HUM 317 Modern Jewish Thought (3.0)**  
Prerequisites: Sophomore standing.

**HUM 318 Judaism and Other Civilizations (3.0)**  
Prerequisite: Sophomore Standing.

**HUM 319 A Survey of Christian Thought and Culture (3.0)**  
Prerequisites: Sophomore Standing.

**HUM 321 Modern Fiction: Nineteenth Century (3.0)**  
Prerequisite: Sophomore standing.

**HUM 322 Modern Fiction: Twentieth Century (3.0)**  
Prerequisite: Sophomore standing.

**HUM 323 Modern Drama (3.0)**  
Prerequisite: Sophomore standing.

**HUM 324 Introduction to Film Studies (3.0)**  
Prerequisite: Sophomore standing.

**HUM 325 Survey of Film and Culture (3.0)**  
Prerequisite: Sophomore standing.

**HUM 326 Studies in Film and Culture (3.0)**  
Prerequisite: Sophomore standing.

**HUM 331 Humanities Perspectives on Sex Roles - CD2 (3.0)**  
Prerequisite: Sophomore standing.  
Note: Cross-listed with WGST 303.

**HUM 335 Issues in Contemporary Christian Thought (3.0)**  
Prerequisite: Sophomore standing.

**HUM 338 Greek Mythology (3.0)**  
Prerequisite: Sophomore standing.

**HUM 339 Studies in World Mythology - CD2 (3.0)**  
Prerequisite: Sophomore standing.

**HUM 340 Women and Religion (3.0)**  
Prerequisite: Sophomore standing.  
Note: Cross-listed with WGST 340.

**HUM 341 Religions of India - CD1 (3.0)**  
Prerequisite: Sophomore Standing.

**HUM 342 Eastern Mysticism (3.0)**  
Prerequisite: Sophomore standing.

**HUM 343 East Asian Religions (3.0)**  
Prerequisite: Sophomore Standing.

**HUM 344 Religion in the United States (3.0)**  
Prerequisite: Sophomore standing.

**HUM 345 Women in Hinduism and Buddhism - CD1 (3.0)**  
Prerequisite: Sophomore standing.  
Note: Cross-listed with WGST 345.

**HUM 354 Masterpieces of Ancient Greece -WR (3.0)**

Prerequisite: Sophomore standing.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HUM 355 Masterpieces of Ancient Rome -WR (3.0)**  
Prerequisite: Sophomore standing.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HUM 356 Masterpieces of the Middle Ages -WR (3.0)**  
Prerequisite: Sophomore standing.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HUM 357 Masterpieces of the Renaissance -WR (3.0)**  
Prerequisite: Sophomore standing.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HUM 358 Masterpieces of the 17th and 18th Centuries -WR (3.0)**

Prerequisite: Sophomore standing.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HUM 359 Masterpieces of the 19th & 20th Centuries -WR (3.0)**

Prerequisite: Sophomore standing.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HUM 361 Selected Topics (1.0-3.0)**  
Prerequisite: Sophomore standing.

**HUM 362 Selected Topics (1.0-3.0)**  
Prerequisites: Sophomore standing.

**HUM 365 Theories of Music (3.0)**  
Prerequisite: Sophomore standing.

**HUM 366 Theories of Literature -WR (3.0)**  
Prerequisite: Sophomore standing.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HUM 367 Theories of the Visual Arts (3.0)**  
Prerequisite: Sophomore standing.

**HUM 368 Theories of Theatrical Performance (3.0)**  
Prerequisite: Sophomore standing.

**HUM 369 Asian Theatre (3.0)**  
Prerequisites: Sophomore Standing.

**HUM 376 Studies in American Culture (3.0)**  
Prerequisites: Sophomore standing.

**HUM 377 African American Religion (3.0)**  
Note: Crosslisted with PAS 317.

**HUM 378 The African - American Experience - CD1 (3.0)**  
Note: Crosslisted with PAS 378.

**HUM 379 African American Islam (3.0)**  
Note: Crosslisted with PAS 328.

**HUM 380 Culture of Iberia-Latin America (3.0)**  
Prerequisite: Sophomore standing.

**HUM 381 Russian Culture (3.0)**  
Prerequisite: Sophomore standing.

**HUM 382 Native American Cultures (3.0)**  
Prerequisites: Sophomore standing.

**HUM 384 Cultures of Modern Africa (3.0)**  
Prerequisites: Sophomore standing.

**HUM 387 The Holocaust and the Western Imagination - CD2 (3.0)**  
Note: Co-listed with HIST 387.  
Note: Credit may not be received for this course and HIST 387.

**HUM 395 Environment, Urbanism, and Architecture (3.0)**  
Prerequisite: Sophomore Standing.

**HUM 396 Futuristics (3.0)**  
Prerequisite: Sophomore standing.

**HUM 400 Honors Seminar in Humanities (3.0)**  
Prerequisite: Admission to Divisional Honors Program.

**HUM 500 Honors Thesis in Humanities -WR (3.0)**  
Prerequisite: Junior standing; admission to Divisional Honors Program.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HUM 501 Independent Study (1.0-3.0)**  
Prerequisites: Minimum grade-point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 hours credit in the department. Consent of Division chair.

**HUM 502 Independent Study (1.0-3.0)**  
Refer to: HUM 501

**HUM 509 Interdisciplinary Approaches: Arts and Humanities (3.0)**  
Prerequisite: Junior standing.  
Note: Credit may not be earned for both 509 and 609.

**HUM 510 Interdisciplinary Approaches: Study of Religion WR (3.0)**  
Prerequisite: Junior standing.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HUM 511 Topics in the Interpretation of Sacred Texts (3.0)**  
Prerequisite: Junior standing.

**HUM 512 Topics in Contemporary Religious Thought (3.0)**  
Prerequisite: Junior standing.

**HUM 513 Comparative Religion (3.0)**  
Prerequisite: Junior standing.

**HUM 514 Colloquium: Interreligious Dialogue (3.0)**  
Prerequisite: Junior standing.

**HUM 524 Special Topics in Film Study (3.0)**  
Prerequisite: HUM 324 or 325 or 326, and junior standing.

**HUM 550 Internship in Arts and Humanities (3.0)**

Prerequisite: Consent of Chair of Humanities or Graduate Advisor.  
Note: Course cannot be repeated for academic credit toward the degree.

**HUM 555 Independent Reading (2.0-3.0)**

Prerequisite: Honors standing, junior standing, consent of division chair.

**HUM 561 Selected Topics (3.0)**

Prerequisite: Junior standing.

**HUM 562 Selected Topics (3.0)**

Prerequisites: Junior standing.

**HUM 581 Dante (3.0)**

Prerequisite: Junior standing.

**HUM 591 Perspectives on Ancient Culture -WR (3.0)**

Prerequisite: Junior standing.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HUM 592 Perspectives on Medieval Culture -WR (3.0)**

Prerequisite: Junior standing.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HUM 593 Perspectives on Early Modern Culture -WR (3.0)**

Prerequisite: Junior standing.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HUM 594 Perspectives on Modern Culture -WR (3.0)**

Prerequisite: Junior standing.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**HUM 595 Principles of Cultural History -WR (3.0)**

Prerequisite: Junior standing.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Note: Credit may not be received for this course and HIST 595.

**HUM 596 Selected Perspectives in Humanities -WR (3.0)**

Prerequisite: Junior Standing.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

## Industrial Engineering

**IE 240 Fundamentals of Industrial Engineering (3.0)**

Prerequisite: Sophomore standing.

**IE 241 Computational Analysis for Industrial Engineering (1.0)**

**IE 288 Industrial Engineering Cooperative Education Seminar (0.0)**

Prerequisites: Eligibility for admission to the IE Department.

**IE 289 Industrial Engineering Cooperative Education I (2.0)**

Prerequisites: IE 288, admission to academic department, and good standing within Speed School.

**IE 320 Manufacturing Processes (4.0)**

Prerequisite: CHE 253.

**IE 321 Facility Location and Layout (3.0)**

Prerequisite: IE 240.

**IE 340 Work Measurement and Methods (3.0)**

Prerequisite: IE 240.

**IE 360 Probability and Statistics for Engineers (3.0)**

Prerequisite: EAC 102.

**IE 361 Statistical Methods for Engineers (3.0)**

Prerequisites: IE 360.

**IE 389 Industrial Engineering Cooperative Education II (2.0)**

Prerequisites: IE 288 and IE 289.

**IE 393 Independent Study in Industrial Engineering (1.0-6.0)**

**IE 415 Introduction to Operations Research (3.0)**

Prerequisite: EAC 205.

**IE 425 Production and Inventory Control (3.0)**

Prerequisite: IE 360 and IE 240.

**IE 426 Ethics and Professionalism (1.0)**

**IE 430 Quality Control (3.0)**

Prerequisites: IE 360 and IE 240.

**IE 480 Human Factors Engineering (3.0)**

Prerequisite: IE 340.

**IE 489 Industrial Engineering Cooperative Education III (2.0)**

Prerequisites: IE 288 and IE 389.

**IE 499 Capstone Design (3.0)**

Prerequisites: IE 320, IE 340, IE 425, IE 430.

**IE 503 Fundamentals of Engineering Examination Review (2.0)**

Prerequisite: Senior or Speed Grad Professional Standing.

**IE 516 Operations Research II (3.0)**

Prerequisite: IE 360.

**IE 522 Analysis and Design of Automated Manufacturing Systems (4.0)**

**IE 530 Industrial Safety Engineering (3.0)**

**IE 535 Product Safety Engineering (3.0)**

Prerequisite: IE 360, IE 240, and IE 241.

**IE 542 Control of Machines and Processes (3.0)**

Prerequisite: CEE 205, ECE 252, EAC 205, IE 320.

**IE 550 Fundamentals of Logistics Systems (3.0)**

Prerequisites: IE 321, IE 425, IE 430.

**IE 563 Experimental Design in Engineering (3.0)**

Prerequisites: Probability and Statistics for Engineers (IE 360).

**IE 565 Linear Statistical Models (3.0)**

Prerequisites: IE 360.

**IE 570 Engineering Design Economics (3.0)**

**IE 573 Expert Systems for Industrial and Management Systems (3.0)**

**IE 575 Fuzzy Sets and Systems (3.0)**

Prerequisite: Probability & Statistics for Engineers (IE 360).

**IE 580 Engineering Cost Analysis (3.0)**

**IE 590 Special Topics in Industrial Engineering (1.0-6.0)**

**IE 599 Seminar in Industrial Engineering (1.0)**

Prerequisite: Senior or Speed Grad Professional standing.

**IE 600 Advanced Manufacturing Methods (3.0)**

Prerequisite: Manufacturing Processes (IE 320).

**IE 601 Computer-Aided Design and Manufacture of Plastics (3.0)**

Prerequisite: Materials Science (CHE 253), Manufacturing Processes (IE 320), and IE 600.

**IE 602 Graduate Internship in Industrial Engineering (2.0)**

Prerequisite: Instructor Permission required.

**IE 605 Tool and Fixture Engineering (3.0)**

Prerequisite: IE 600.

**IE 606 Production Systems and Intelligent Manufacturing (3.0)**

Prerequisite: IE 600.

**IE 610 Foundations of Optimization (3.0)**

Prerequisites: IE 415.

**IE 611 Discrete Optimization (3.0)**

Prerequisite: IE 415.

**IE 621 Facilities Planning (3.0)**

**IE 630 Production Planning and Control (3.0)**

Prerequisite: IE 360.

**IE 631 Advanced Quality Control (3.0)**

Prerequisites: IE 415, IE 425, IE 541.

**IE 640 Applied Systems Analysis (3.0)**

Prerequisites: IE 360, IE 415, IE 570.

**IE 642 Statistical Methodology in Simulation (3.0)**

Prerequisite: IE 360.

**IE 643 Analysis for Decision Making (3.0)**

Prerequisite: Probability & Statistics for Engineers (IE 360), Introduction to Operations Research (IE 415) or EM 515.

**IE 650 Material Flow Systems Design (3.0)**

Prerequisite: IE 516.

**IE 651 Advanced Facilities Planning and Design (3.0)**

Prerequisites: Facility Location and Layout (IE 321), Probability and Statistics for Engineers (IE 360), Introduction to Operations Research (IE 415), Operations Research II: Stochastic Models (IE 516).

**IE 652 Warehousing and Transportation (3.0)**

**IE 655 Supply Chain Engineering (3.0)**

Prerequisites: IE 425, IE 430, IE 541, and IE 600.

**IE 660 Reliability and Maintainability (3.0)**

Prerequisite: Probability & Statistics for Engineers (IE 360).

**IE 666 Classical IE Topics (3.0)**

Prerequisites: Admission to Grad Speed School.

**IE 670 Advanced Engineering Economy (3.0)**

Prerequisite: IE 570.

**IE 673 Manufacturing Decision Support Systems (3.0)**

Prerequisite: Human Factors Engineering (IE 480).

**IE 683 Design of Human-Machine Systems (3.0)**

Prerequisite: Consent of instructor.

**IE 685 Human Reliability (3.0)**

Prerequisite: IE 516 and 681.

**IE 687 Human Aspects of Advanced Manufacturing Technology (3.0)**

Prerequisite: IE 600 and 606.

**IE 690 M.S. Thesis in Industrial Engineering (1.0-6.0)**

Prerequisite: Department Chair permission required.

**IE 691 Independent Research (1.0-6.0)**

Prerequisite: Department Chair permission required.

**IE 692 Research Seminar in Industrial Engineering (1.0)**

Prerequisite: Graduate Speed School Admission required.

**IE 693 Independent Study in Industrial Engineering (1.0-12.0)**

**IE 697 M. Eng. Thesis in Industrial Engineering (1.0-8.0)**

**IE 699 Industrial Engineering Masters Project (3.0)**



**IE 700 Dissertation Research in Industrial Engineering (1.0-18.0)**  
Prerequisite: Dept Chair permission required.

## Information Science and Data Processing

*ISDP designated courses are no longer being offered. However, the former ISDP 155 course, Introduction to Microcomputer Applications, is now being offered as CIS 100, Introduction to Microcomputer Applications. This course, along with other computer courses offered by the College of Business and Public Administration are listed under the department of Computer Information Systems.*

## Italian

**ITAL 101 Elementary Italian I (3.0)**

**ITAL 102 Elementary Italian II (3.0)**  
Refer to: ITAL 101.

**ITAL 121 Basic Italian I (4.0)**

**ITAL 122 Basic Italian II (4.0)**  
Refer to: ITAL 121.

**ITAL 201 Intermediate Italian I (3.0)**  
Prerequisite: ITAL 101-102 or equivalent.

**ITAL 202 Intermediate Italian II (3.0)**  
Refer to: ITAL 201.

**ITAL 221 Intermediate Italian (4.0)**  
Prerequisite: ITAL 122.

**ITAL 321 Italian Conversation (3.0)**  
Prerequisite: ITAL 202, 221 or equivalent.

**ITAL 322 Italian Composition (3.0)**  
Prerequisite: ITAL 202, 221 or equivalent.

**ITAL 325 Literature of the Seventeenth and Eighteenth Centuries (3.0)**  
Prerequisite: ITAL 202, 221 or faculty consent.

**ITAL 326 Literature of the Seventeenth and Eighteenth Centuries (3.0)**  
Refer to: ITAL 325.

**ITAL 331 Italian Culture and Civilization (3.0)**  
Prerequisite: ITAL 202, 221 or equivalent.

**ITAL 355 Introduction to the Study of Italian Literature (3.0)**  
Prerequisite: ITAL 202, 221 or equivalent.

**ITAL 441 Literature of the Nineteenth and Twentieth Centuries (3.0)**  
Prerequisite: ITAL 202, 221, or faculty consent.

**ITAL 442 Literature of the Nineteenth and Twentieth Centuries (3.0)**

Refer to: ITAL 441.

**ITAL 451 Independent Study (1.0-3.0)**

Prerequisite: Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.

**ITAL 452 Independent Study (1.0-3.0)**

Refer to: ITAL 451.

## Interpreter Training

**ITP 104 Special Education Introduction (3.0)**

**ITP 115 Deaf Heritage & Culture (3.0)**

Prerequisites: ASL 102 or permission of instructor.

**ITP 215 Professional Ethics and Issues in Interpreting (3.0)**

Prerequisites: ASL 201, ITP 115 or permission of instructor.

**ITP 220 Pre-Interpreting Skills (3.0)**  
Prerequisites: ASL 201 or permission of instructor.

**ITP 230 Sign-to-Voice I (3.0)**

Prerequisites: ASL 202, ITP 115, ITP 215, ITP 220, Admission to ITP Program or permission of instructor.

**ITP 310 Interpreting in Private Practice (1.0)**

Prerequisites: ASL 202, ITP 115, ITP 215, ITP 220, Admission to ITP program or permission of instructor.

**ITP 313 Special Topics in Interpreting (1.0-3.0)**

Prerequisite: Permission of instructor.

**ITP 315 Fingerspelling (3.0)**

Prerequisites: ASL 201 or permission of instructor.

**ITP 320 Voice-to-Sign Interpreting (3.0)**

Prerequisites: ASL 202, ITP 115, ITP 215, ITP 220, Admission to ITP program, or permission of instructor.

**ITP 337 Education of the Deaf and Hard of Hearing (3.0)**

**ITP 370 Interpreting in Specialized Settings I (3.0)**

Prerequisites: ITP 320, Admission to ITP program, or permission of instructor.

**ITP 390 Linguistics and American Sign Language I (3.0)**

Prerequisite: ASL 202 or permission of instructor.

**ITP 420 Voice-to-Sign Transliterating (3.0)**

Prerequisites: ASL 301, ITP 320, Admission to ITP program, or permission of instructor.

**ITP 425 Sign-to-Voice Interpreting II (3.0)**

Prerequisites: ASL 302, ITP 230, ITP 320 Admission to ITP program, or permission of instructor.

**ITP 430 Interpreting in Specialized Settings II (3.0)**

Prerequisites: ASL 302, ITP 230, ITP 420, Admission to ITP program or permission of instructor.

**ITP 470 Practicum in Interpreting I (3.0)**

Prerequisites: ASL 302, ITP 230, ITP 320, ITP 420, Admission to ITP program, or permission of instructor.

**ITP 480 Practicum in Interpreting II (3.0-12.0)**

Prerequisites: ITP 470, completion of all other ASL and ITP courses, Admission to ITP program, or permission of instructor.

**ITP 490 Linguistics and ASL II (3.0)**

Prerequisites: ITP 390 or instructor's permission.

## Justice Administration

**JA 200 Crime and Justice in the United States - SB (3.0)**

**JA 201 Law Enforcement in the United States - SB (3.0)**

**JA 202 Corrections in the United States - SB (3.0)**

**JA 305 Criminal Behavior (3.0)**

**JA 306 Criminal Procedure (3.0)**

**JA 310 Justice Personnel Administration (3.0)**

Prerequisite: JA 200 or consent of instructor.

**JA 325 Research Design (3.0)**

Prerequisite: JA 200 or consent of instructor

**JA 326 Quantitative Analysis (3.0)**  
Prerequisites: MATH 105 or MATH 111 or equivalent.

**JA 335 Court Administration (3.0)**  
Prerequisite: JA 310 or consent of instructor.

**JA 350 Crime Prevention Theory, Practice, and Management (3.0)**

**JA 351 Crime Prevention Technology and Programming (2.0)**

**JA 352 Sex Crimes (3.0)**

**JA 355 Criminalistics (3.0)**

**JA 356 Crime Prevention (3.0)**

**JA 358 Private Security Management (3.0)**

Prerequisite: JA 200 or consent of instructor.

**JA 360 Juvenile Justice (3.0)**

Prerequisite: JA 200 or consent of instructor.

**JA 365 Community Corrections (3.0)**

Prerequisite: JA 200 and JA 303 or consent of instructor.

**JA 370 Police Administration (3.0)**  
Prerequisite: JA 201 or consent of instructor.

**JA 383 Police Leadership Development (1.0-6.0)**

Prerequisite: Consent of department chair.

**JA 390 Criminal Court Procedures (3.0)**

Prerequisite: JA 306 or consent of instructor.

**JA 395 Criminal Law and Evidence (3.0)**

**JA 400 Legal Issues in Corrections (3.0)**

Prerequisite: JA 200, JA 202, and JA 306 or consent of instructor.

**JA 403 Prisons and Jails in the United States (3.0)**

Prerequisites: JA 200, JA 202 or consent of instructor.

**JA 420 Computer Applications in Criminal Justice (3.0)**

Prerequisites: JA 200 or consent of instructor.

**JA 421 Organized Crime (3.0)**

Prerequisites: JA 200 and JA 305 or consent of instructor.

**JA 425 Profiling Violent Crimes (3.0)**

Prerequisites: Junior standing or consent of instructor.

**JA 426 Violence in the United States: The Criminal Justice Response (3.0)**

Prerequisites: JA 200, Junior standing or consent of instructor.

**JA 450 Internship (3.0-6.0)**

Prerequisite: Permission of Chair or Internship Coordinator.

**JA 460 Correctional Treatment and Rehabilitation (3.0)**

Prerequisite: JA 200, JA 202 or consent of instructor.

**JA 470 Issues in Law Enforcement Administration (3.0)**

Prerequisite: Consent of department chair.

**JA 471 Police Administration (3.0)**  
Prerequisite: Consent of department chair.

**JA 472 Police Management (3.0)**  
Prerequisite: JA 201 or consent of instructor.

**JA 473 Legal Issues in Police Administration (3.0)**

Prerequisite: Consent of department chair.

**JA 477 Organizational Behavior in Law Enforcement (3.0)**

Prerequisite: Consent of department chair.

**JA 480 Advanced Administrative Officers Course (2.0)**

Prerequisite: Completion of the Administrative Officers Course, Consent of Director (SPI) or Consent of Chair.

**JA 485 Seminar in Justice Administration -WR (3.0)**

Prerequisites: JA 200, JA 325 & JA 326, consent of chair or senior standing.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**JA 492 Criminal Justice in the Cinema (3.0)**

Prerequisites: Junior standing or consent of faculty.

**JA 493 Police and the Community (3.0)**

Prerequisites: Senior standing or consent of instructor.

**JA 495 Independent Study/Directed Readings (1.0-6.0)**

Prerequisite: Senior standing and consent of department chair.

**JA 496 Special Topics in Criminal Justice (3.0)**

**JA 497 Honors Seminar (3.0)**

Prerequisite: Junior standing.  
Note: Restricted to honors program students.

**JA 498 Honors Seminar -WR (3.0)**

Prerequisite: Junior standing.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Note: Restricted to honors program students.

**JA 499 Honors Thesis -WR (3.0)**

Prerequisites: Senior standing and admission to department honors program.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**JA 520 Capital Punishment -WR (3.0)**

Prerequisites: Senior standing or consent of instructor.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**JA 521 White Collar Crime -WR (3.0)**

Prerequisites: JA 200 and JA 305 or consent of instructor.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**JA 522 Serial Murder (3.0)**

Prerequisites: Senior standing or consent of instructor.

**JA 523 Race and Gender Issues in Criminal Justice - WR (3.0)**

Prerequisites: Junior standing or consent of faculty.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**JA 576 Managing Organizational Performance (3.0)**

**JA 596 Seminar in Criminal Justice (3.0)**

**JA 597 Ethics in Criminal Justice -WR (3.0)**

Prerequisite: Senior standing or consent of instructor.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Latin

**LAT 101 Elementary Latin I (3.0)**

**LAT 102 Elementary Latin II (3.0)**  
Refer to: LAT 101.

**LAT 201 Intermediate Latin I (3.0)**

Prerequisites: LAT 102 or at least two years of high school Latin.

**LAT 202 Intermediate Latin II (3.0)**

Refer to: LAT 201.

**LAT 301 Selected Readings (3.0)**

Prerequisite: LATIN 202 or consent of instructor.

**LAT 302 Selected Readings II (3.0)**

Prerequisites: Latin 202 or consent of instructor.  
Refer to: LAT 301.

**LAT 303 Latin Prose Composition (3.0)**

Prerequisite: LATIN 202 or consent of instructor.

**LAT 401 Readings in Latin Prose (3.0)**

Prerequisite: LATIN 202 or consent of instructor.

**LAT 402 Readings in Latin Poetry (3.0)**

Prerequisite: LATIN 202 or consent of instructor.

Liberal Studies

**LBST 300 Forms of Interdisciplinary Inquiry (3.0)**

Prerequisite: Junior standing.  
Note: It is recommended that students concurrently enroll in LBST 300 and the Liberal Studies section of ENGL 309, Advanced Academic Writing.

**LBST 301 Life Experience (1.0-6.0)**

**LBST 310 Introduction to Latin American Studies (3.0)**

**LBST 400 Cooperative Internship in Liberal Studies (3.0-6.0)**

Prerequisite: Minimum of 60 credit hours completed; minimum 2.5 GPA; completed "Application for Enrollment" form from Liberal Studies Office, 320 Gardiner Hall.

Linguistics

**LING 324 Language and Cognition (3.0)**

Prerequisite: Junior standing or consent of instructor.  
Note: Cross-listed with PSYC 324.

**LING 325 Introduction to Linguistics (3.0)**

Note: Cross-listed with ENGL 325.

**LING 326 Syntax -WR (3.0)**

Prerequisite: LING 325 or equivalent or consent of instructor.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**LING 341 Philosophy of Language -WR (3.0)**

Prerequisite: LING 325 or equivalent or consent of instructor.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Note: Cross-listed with PHIL 341.

**LING 390 Special Topics in Language (3.0)**

Prerequisite: LING 325 or equivalent or consent of instructor.

**LING 490 Independent Study (3.0)**

Prerequisite: LING 325 or equivalent and 9 additional semester hours in linguistics courses; minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in linguistics courses.

**LING 518 Foundations of Language (3.0)**

Note: Cross-listed with ENGL 518.

**LING 521 Teaching Techniques in Foreign Languages (3.0)**

Prerequisite: Current status as a foreign language teacher or consent of instructor.  
Note: Crosslisted with M L 521.

**LING 522 Structure of Modern American English (3.0)**

Note: Crosslisted with ENGL 522.

**LING 523 History of the English Language (3.0)**

Note: Crosslisted with ENGL 523.

**LING 524 Psycholinguistics (3.0)**

Prerequisite: LING/ENGL 518 or PSYC 324.  
Note: Cross-listed with PSYC 524.

**LING 535 Applied Linguistics for English Teachers (3.0)**

Prerequisite: ENGL 102 or ENGL 105.  
Note: Cross-listed with ENGL 535.

**LING 590 Special Topics in Linguistics (3.0)**

Prerequisite: Junior standing.

Modern Languages

**M L 000 Study Abroad: (Language) (1.0-30.0)**

Prerequisite: Participation in the University of Louisville Study Abroad Program and/or programs conducted by the International Center.

**M L 101 Elementary (Language) I (3.0)**

**M L 102 Elementary Language II (3.0)**

Refer to: M L 101

**M L 121 Basic (Language) Study I (4.0)**

**M L 122 Basic (Language) Study II (4.0)**

Refer to: M L 121

**M L 150 Introduction to the French-Speaking World - HCD2 (3.0)**

**M L 160 Hispanic Contributions to the World - HCD1 (3.0)**

**M L 199 Writing in the Humanities: Classical and Modern Languages - WC (3.0)**

Prerequisites: English 101.  
Note: Credit may not be earned for this course and ENGL 102.

**M L 201 Intermediate (Language) I (3.0)**

Prerequisite: ML 102 or its equivalent in that language.

**M L 202 Intermediate (Language) II (3.0)**

Refer to: M L 201

**M L 221 Intermediate (Language) Study (4.0)**

Prerequisite: ML 122.

**M L 301 Reading, Conversation and Composition I (3.0)**

Prerequisite: ML 202 or 221 in appropriate language.

**M L 302 Reading, Conversation and Composition II (3.0)**

Prerequisite: M L 301 in appropriate language.

Note: Readings, papers, lectures, and discussions in the following literature courses are given in English: ML 313, 340, 341, 351, 352, 353, 354, 355, 356, 357, 358, 361, 362, 363, 364, 401, 506, 551, 552, 553, and 561.

**M L 313 Special Topics in Language, Literature, or Culture (3.0)**

**M L 341 Special Topics in Classical Literature (3.0)**

**M L 342 Grimm's Fairy Tales - WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**M L 343 Weimar Culture -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**M L 351 French Literature: Special Topics -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**M L 352 Topics in German Literature -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**M L 353 Russian Literature of the Nineteenth Century -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**M L 354 Russian Literature of the Twentieth Century -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**M L 355 Masterpieces of the Literature of Spain (3.0)**

Note: No credit toward major in Spanish.

**M L 356 Masterpieces of Latin American Literature (3.0)**

Note: No credit toward major in Spanish.

**M L 357 Latin American Literature Today (3.0)**

Note: No credit toward major in Spanish.

**M L 358 Mexican Literature Today (3.0)**

Note: No credit toward major in Spanish.

**M L 361 Modern German Stories -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in Written Communication (WR).

**M L 362 Modern German Fiction -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in Written Communication (WR).

**M L 363 Modern German Drama -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in Written Communication (WR).

**M L 364 Masterpieces of German Theater -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in Written Communication (WR).

**M L 365 Women Writers and Filmmakers-WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Note: Crosslisted with WGST 373.

**M L 401 CML Honors Seminar: Foreign Cultures (3.0)**

Prerequisite: Membership in Classical and Modern Languages Honors Program or Arts and Sciences Honors Program.

**M L 500 Study Abroad (1.0-15.0)**

Prerequisite: Membership in a University of Louisville Language Study Abroad Program or a program approved by the department.

**M L 506 Francophone Women Writers-WR (3.0)**

Prerequisite: Junior standing or faculty consent.

Note: Cross-listed with WGST 571.

Note: Approved for the General Education requirement in written communication (WR).

**M L 519 German Intellectual History (3.0)**

Prerequisite: Consent of instructor.

**M L 521 Teaching Techniques in Foreign Languages (3.0)**

Prerequisites: Current status as a foreign language teacher or consent of instructor.

Note: Crosslisted with LING 521.

**M L 551 Special Topics (3.0)**

Prerequisite: Consent of instructor.

**M L 552 Special Topics (3.0)**

Refer to: M L 551.

**M L 553 Selected Authors in Foreign Literature -WR (3.0)**

Prerequisite: Consent of instructor.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**M L 561 Masterpieces of Russian Literature (3.0)**

Prerequisites: Consent of department chair.

## Mathematics

*Note: A student may not register for credit in a lower-level Mathematics course that is part of a sequence of prerequisites for a higher-level course for which the student has already received credit.*

**MATH 105 Contemporary Mathematics - M (3.0)**

Prerequisite: Appropriate placement score or equivalent coursework.

Note: Does not count toward mathematics major or minor.

**MATH 107 Finite Mathematics - M (3.0)**

Prerequisites: Appropriate placement score or equivalent coursework.

Note: Does not count toward mathematics major or minor.

**MATH 109 Elementary Statistics (3.0)**

Prerequisites: Appropriate placement score or equivalent coursework.

Note: Does not count toward mathematics major or minor. Students may not receive credit for both this course and any of the following: MGMT 201, SOC 301, PSYC 312, PSYC 316-317, JA 326 (formerly JA 320).

**MATH 111 College Algebra - M (3.0)**

Prerequisites: Appropriate placement score or equivalent coursework.

Note: Does not count toward mathematics major.

**MATH 112 Trigonometry - M (3.0)**

Prerequisites: Appropriate placement score or equivalent coursework.

Note: Does not count toward mathematics major or minor. Credit not allowed for both MATH 112 and 190. MATH 111 and 112, or MATH 190, normally prepare students for MATH 205.

**MATH 151 Mathematics for Elementary Education 1 (3.0)**

Prerequisites: Appropriate mathematics placement.

**MATH 152 Mathematics for Elementary Education II - M (3.0)**

Prerequisites: MATH 151.

**MATH 180 Elements of Calculus - M (3.0)**

Prerequisites: Appropriate placement score or equivalent coursework.

Note: Does not count toward mathematics major or minor. Credit not granted for both MATH 180 and 205.

**MATH 190 Precalculus - M (4.0)**

Prerequisites: Appropriate placement score or equivalent coursework.

Note: Does not count toward mathematics major. Credit not allowed for both MATH 190 and either MATH 111 or MATH 112. MATH 190, or MATH 111 and 112, normally prepares the student for MATH 205.

**MATH 205 Calculus I - M (4.0)**

Prerequisite: MATH 111-112 or MATH 190 or appropriate placement score.

Note: Credit will not be granted for both MATH 205 and 180.

**MATH 206 Calculus II - M (4.0)**

Prerequisite: MATH 205 or equivalent.

**MATH 301 Calculus III (4.0)**

Prerequisite: MATH 205-206 or equivalent.

**MATH 311 Introduction to Higher Math (3.0)**

Prerequisite: MATH 205.

**MATH 325 Introduction to Linear Algebra (3.0)**

Prerequisite: MATH 180 or 205.

**MATH 349 Statistics and Probability for Teachers (3.0)**

Prerequisites: Completion of General Education Mathematics Requirement.

**MATH 350 Geometric Investigations (3.0)**

Prerequisites: Math 112, 190, or 205. Note: Does not count toward major in mathematics.

**MATH 370 Introduction to Mathematical Modeling (3.0)**

Prerequisite: MATH 206 and 325.

**MATH 387 Discrete Mathematics (3.0)**

Prerequisite: MATH 206 and 325.

**MATH 399 Honors Seminar (3.0)**

Prerequisite: MATH 301 and 325; 3.0 overall GPA and 3.0 GPA in mathematics, or faculty consent.

**MATH 405 Differential Equations (3.0)**

Prerequisite: MATH 206 and 325.

**MATH 407 Numerical Analysis (3.0)**

Prerequisite: ISDP 120 or equivalent, MATH 301, 325. MATH 405 recommended.

**MATH 451 Problem Solving in Number Systems and Discrete Mathematics -WR (3.0)**

Prerequisites: MATH 205.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Does not count toward major in mathematics.

**MATH 491 Independent Study (1.0-3.0)**

Prerequisite: Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.

**MATH 493 Cooperative Internship in Mathematics (1.0-3.0)**

Prerequisite: 15 hours of mathematics (MATH 205 and above); approval of department chair; and junior standing. Note: B.S. students may apply a maximum of 3 hours in applications area requirement.

**MATH 499 Senior Honors Thesis -WR (3.0)**

Prerequisite: Senior standing and faculty consent.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**MATH 501 Introduction to Analysis I (3.0)**

Prerequisite: MATH 301, MATH 311 and MATH 325, or consent of instructor.

**MATH 502 Introduction to Analysis II (3.0)**

Prerequisite: MATH 501.

**MATH 505 Introduction to Partial Differential Equations (3.0)**

Prerequisite: MATH 301 and MATH 405.

**MATH 507 Fourier Series (3.0)**

Prerequisites: MATH 301, MATH 311, and MATH 405 or consent of instructor.

**MATH 508 Advanced Numerical Methods (3.0)**

Prerequisite: MATH 407 or consent of instructor.

**MATH 511 Complex Analysis (3.0)**

Prerequisites: MATH 301 and MATH 311 or consent of instructor. Note: Graduate credit may be applied towards the M.A.T. degree only.

**MATH 520 Theory of Numbers (3.0)**

Prerequisite: MATH 205-206, MATH 311, MATH 325 or consent of instructor. Note: Graduate credit may be applied towards the M.A.T. degree only.

**MATH 521 Modern Algebra I (3.0)**

Prerequisite: MATH 205-206, MATH 311 and MATH 325 or consent of instructor.

**MATH 522 Modern Algebra II (3.0)**  
Prerequisite: MATH 521.

**MATH 530 Matrix Analysis (3.0)**  
Prerequisite: MATH 205-206 and MATH 325 or consent of instructor.

**MATH 535 Modeling I (3.0)**  
Prerequisites: MATH 405 and MATH 387 or consent of instructor.

**MATH 536 Modeling II (3.0)**  
Prerequisite: MATH 535.

**MATH 541 Elementary Topology (3.0)**  
Prerequisite: MATH 301, MATH 311 and MATH 325 or consent of instructor.

**MATH 545 Introduction to Fractal Geometry (3.0)**  
Prerequisites: MATH 301 and MATH 325; MATH 501 recommended.

**MATH 550 Advanced Euclidean Geometry (3.0)**  
Prerequisite: A year of high-school geometry, MATH 205-206, MATH 311 and MATH 325 or consent of instructor.  
Note: Graduate credit may be applied toward the M.A.T. degree only.

**MATH 551 Geometry (3.0)**  
Prerequisites: A year of high-school geometry, MATH 205-206, MATH 311 and MATH 325 or consent of instructor.

**MATH 555 Mathematical Logic (3.0)**  
Prerequisite: MATH 205-206 and MATH 325 or consent of instructor.

**MATH 560 Statistical Data Analysis - WR (3.0)**  
Prerequisite: MATH 205.  
Note: Graduate credit may be applied towards the M.A.T. degree only.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**MATH 561 Probability (3.0)**  
Prerequisites: MATH 205-206 and MATH 301 or consent of instructor.

**MATH 562 Mathematical Statistics (3.0)**  
Prerequisite: MATH 561.

**MATH 564 Probability Models (3.0)**  
Prerequisite: MATH 561.

**MATH 566 Nonparametric Statistical Methods (3.0)**  
Prerequisite: MATH 561.

**MATH 567 Sampling Techniques (3.0)**  
Prerequisite: MATH 560 or 561.

**MATH 570 Foundations of Actuarial Science (3.0)**  
Prerequisite: MATH 561.

**MATH 572 Theory of Interest (3.0)**  
Prerequisites: MATH 561.

**MATH 573 Actuarial Models I (3.0)**  
Prerequisite: MATH 570, MATH 572.

**MATH 574 Actuarial Models II (3.0)**  
Prerequisite: MATH 573.

**MATH 576 Actuarial Modeling I (3.0)**  
Prerequisite: MATH 574.

**MATH 577 Actuarial Modeling II (3.0)**  
Prerequisites: MATH 576.

**MATH 578 Actuarial Valuation (3.0)**  
Prerequisites: MATH 577.

**MATH 580 Applied Graph Theory (3.0)**  
Prerequisite: MATH 205-206 and MATH 325 or consent of instructor.  
Note: Credit may be applied towards the M.A.T. degree only.

**MATH 581 Introduction to Graph Theory (3.0)**  
Prerequisites: MATH 205-206, MATH 311 and MATH 325 or consent of instructor.

**MATH 585 Mathematics for Behavioral and Social Sciences (3.0)**  
Prerequisite: MATH 205-206 and MATH 325 or consent of instructor.

**MATH 587 Discrete Mathematics for MAT students (3.0)**  
Prerequisites: MATH 206, MATH 325.  
Note: Does not count towards the mathematics major or minor. Credit may be applied toward the MAT degree but not towards any other graduate degree in mathematics.  
Credit not allowed for both MATH 387 and MATH 587.

**MATH 588 Discrete Mathematics for the LoDI Certificate Program (3.0)**  
Prerequisites: Mathematics Department Consent.

Note: This is a course in discrete mathematics for students in the LoDI Certificate Program. Enrollment is limited to students in this program and is by permission of the Mathematics Department.

**MATH 590 History of Mathematics (3.0)**  
Prerequisite: 500-level course in math (except 560).  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**MATH 591 Selected Topics in Mathematics (1.0-3.0)**  
Prerequisite: Announced in Schedule of Courses.

## Math Computer Science

**MCS 210 Introduction to Computational Tools and Programming in Mathematics and the Natural Sciences (3.0)**  
Prerequisites: MATH 205.

## Mechanical Engineering

**ME 180 Introduction to Computer-Aided Engineering (2.0)**  
Prerequisite: Mechanical Engineering majors only.

**ME 181 Introduction to Mechanical Engineering Design (1.0)**  
Corequisite: ME 180.

**ME 206 Mechanics II: Dynamics (3.0)**  
Prerequisite: EAC 102, CEE 205, and PHYS 298.

**ME 251 Thermodynamics I (3.0)**  
Prerequisite: EAC 102 and PHYS 298.

**ME 280 Structured and Event-Driven Programming (3.0)**  
Prerequisite: ME 180.

**ME 288 Mechanical Engineering Cooperative Education Seminar (0.0)**  
Prerequisite: Eligibility for Admission to the ME Department.

**ME 289 Mechanical Engineering Cooperative Education I (2.0)**  
Prerequisite: ME 288, admission to academic department, and good standing within Speed School.

**ME 306 Computer Lab (1.0)**  
Prerequisite: EAC 205.

**ME 310 Thermodynamics II (3.0)**  
Prerequisite: ME 251.

**ME 311 Fluid Mechanics I (3.0)**  
Prerequisite: ME 206 and ME 251.

**ME 314 Engineering Measurements (3.0)**  
Prerequisite: ME 311.  
Corequisite: ME 315.

**ME 315 Mechanical Engineering Lab I (1.0)**  
Corequisite: ME 314.

**ME 320 Rigid Body Dynamics (3.0)**  
Prerequisite: ME 206.

**ME 323 Mechanics of Materials (3.0)**  
Prerequisite: CEE 205 and EAC 205.

**ME 380 Computer Aided Design (3.0)**  
Prerequisite: EG 214 and ME 323.

**ME 389 Mechanical Engineering Cooperative Education II (2.0)**  
Prerequisite: ME 288 and ME 289.

**ME 401 Fluid Mechanics II (3.0)**  
Prerequisite: ME 311 and EAC 205.

**ME 410 Robotics (3.0)**  
Prerequisite: ME 206.

**ME 411 Design Analysis of Thermal Systems (3.0)**  
Prerequisite: ME 310.

**ME 415 Mechanical Engineering Laboratory II (1.0)**  
Prerequisite: ME 315.

**ME 422 Machine Design I (3.0)**  
Prerequisite: ME 323.

**ME 432 Intermediate Mechanics of Materials (3.0)**  
Prerequisite: ME 323.

**ME 435 System Dynamics (3.0)**  
Prerequisites: EAC 205 and ME 311.

**ME 440 Heat Transfer (3.0)**  
Prerequisite: ME 401.

**ME 442 Machine Design II (3.0)**  
Prerequisite: ME 422.

**ME 448 Control System Principles (3.0)**  
Prerequisite: ME 435.

**ME 489 Mechanical Engineering Cooperative Education III (2.0)**  
Prerequisites: ME 288 and ME 389.

**ME 491 Seminar in Mechanical Engineering (1.0)**  
Prerequisite: Faculty consent.

**ME 497 Mechanical Engineering Capstone Design Project (3.0)**  
Corequisite: ME 440 and ME 442.

**ME 501 Introduction to Lean Engineering (3.0)**  
Prerequisites: ME 442 Machine Design II.

**ME 503 Fundamentals of Engineering Examination Review (2.0)**  
Prerequisite: 4th year standing.

**ME 510 Thermal Design of Internal Combustion Engines (3.0)**  
Prerequisite: ME 310.

**ME 512 Finite Element Methods for Mechanical Design I (3.0)**  
Prerequisite: ME 432.

**ME 513 Energy Conversion (3.0)**  
Prerequisite: ME 310.

**ME 515 Mechanical Engineering Lab III (2.0)**  
Prerequisite: ME 415.

**ME 520 Robotic Manipulator Design and Analysis (3.0)**  
Prerequisite: ME 410 or equivalent.

**ME 521 Mechanical Vibrations (3.0)**  
Prerequisite: ME 435.

**ME 522 Vehicle Engineering (3.0)**  
Prerequisites: Graduate School Standing and ME 442.

**ME 523 Intermediate Dynamics (3.0)**  
Prerequisite: ME 206 and ME 435.

**ME 525 Mechanical Design of Internal Combustion Engines (3.0)**  
Prerequisite: ME 310 and ME 422.

**ME 530 Advanced Mechanical Design (3.0)**  
Prerequisite: Graduate School or Professional School standing.

**ME 531 Analysis and Design of Energy Systems (3.0)**  
Prerequisite: Graduate School or Professional School standing.

**ME 532 Experimental Stress Analysis (3.0)**  
Prerequisite: ME 314, ME 323 and ME 435.

**ME 542 Gas Turbines (3.0)**  
Prerequisite: ME 310 and ME 401.

**ME 545 Tribology (3.0)**  
Prerequisite: ME 401 and ME 440.

**ME 552 Direct Energy Conversion (3.0)**  
Prerequisite: ME 440.

**ME 560 Nuclear Engineering (3.0)**  
Prerequisite: ME 440 or CHE 434.

**ME 562 Fiber-Reinforced Composite Materials (3.0)**  
Prerequisites: ME 323.

**ME 575 Special Topics in Mechanical Engineering (1.0-4.0)**  
Prerequisite: Faculty consent.

**ME 580 Air Pollution Control (3.0)**  
Prerequisite: CHEM 202, ME 310 or equivalent.

**ME 582 Industrial Energy Conservation (3.0)**  
Prerequisites: ME 310 or equivalent.

**ME 588 Independent Study in Mechanical Engineering (1.0-4.0)**  
Prerequisite: Faculty consent.

**ME 602 Graduate Internship in Mechanical Engineering (2.0)**  
Prerequisites: Students must be admitted for Graduate study, and a sponsored member of the Graduate Intern Program.

**ME 606 Continuum Mechanics (3.0)**  
Prerequisites: Graduate School Standing, ME 311 and ME 323.

**ME 610 Data Acquisition and Signal Analysis (3.0)**  
Prerequisites: ME 314, ME 315, ME 415, ME 435.

**ME 612 Finite Element Methods for Mechanical Design II (3.0)**  
Prerequisite: ME 512.

**ME 614 Heating, Ventilating, and Air Conditioning (3.0)**  
Prerequisite: ME 440.

**ME 616 Gas Dynamics (3.0)**  
Prerequisite: ME 401.

**ME 618 Heat Exchanger Design (3.0)**  
Prerequisite: ME 401 and ME 440.

**ME 620 Advanced Mechanics of Solids (3.0)**  
Prerequisite: ME 432 or equivalent.  
Note: Cross-listed with CE 620.

**ME 621 Noise and Vibration Control (3.0)**  
Prerequisite: ME 435 and ME 314.

**ME 622 Theory of Plates and Shells (3.0)**  
Prerequisite: ME 432.  
Note: Cross-listed with CE 622.

**ME 624 Failure Analysis and Accident Reconstruction (3.0)**  
Prerequisite: CHE 253.

**ME 630 Turbomachinery (3.0)**  
Prerequisite: ME 310 and ME 401.

**ME 635 Advanced Mechanical Engineering Analysis (3.0)**  
Prerequisite: Graduate School or Professional School Standing.

**ME 636 Computer Simulation of Dynamic Systems (3.0)**  
Prerequisites: ME 380 and ME 435.

**ME 638 Computational Methods in Fluid Flow and Heat Transfer (3.0)**  
Prerequisite: Graduate School or Professional School Standing.

**ME 640 Optimum Design Methods (3.0)**  
Prerequisites: ME 422 or equivalent.

**ME 641 Advanced Mechanics of Machinery (3.0)**  
Prerequisites: ME 442 and ME 521.

**ME 642 Design of Fluid Power Systems (3.0)**  
Prerequisites: ME 380, ME 401, and ME 435.

**ME 643 Rapid Product Development (3.0)**  
Prerequisites: ME 380 and ME 422.

**ME 644 Mechatronics (3.0)**  
Prerequisites: ME 435.

**ME 645 Mechanical Engineering Structured Research Project (3.0)**  
Prerequisite: Graduate/professional school standing.

**ME 646 Design for Manufacturability and Reliability (3.0)**  
Prerequisites: ME 442 and IE 360.

**ME 647 Advanced Design Methods (3.0)**  
Prerequisite: ME 442 and ME 497.

**ME 648 Design for Manufacturing (3.0)**  
Prerequisites: ME 422 and Graduate/Professional School standing.

**ME 651 Kinematics and Kinetics of Human Movement (3.0)**  
Prerequisites: ME 206.

**ME 652 Advanced Human Biodynamics (3.0)**  
Prerequisites: ME 651.

**ME 653 Mechanics of Biomaterials (3.0)**  
Prerequisites: ME 323 and CHEM 202.

**ME 654 Advanced Hard and Soft Tissue Mechanics (3.0)**  
Prerequisites: ME 653.

**ME 655 Biomedical Acoustics (3.0)**  
Prerequisites: ME 380 or equivalent; ME 435 or ME 521; and BSC 211 and BSC 212, or equivalent.

**ME 656 Orthopaedic Bioengineering (3.0)**  
Prerequisites: BSC 211 and BSC 212, or equivalent.

**ME 657 Computational Biomechanics (3.0)**  
Prerequisites: BSC 211 and BSC 212, or equivalent and ME 654.

**ME 658 Dental Biomechanics (3.0)**  
Prerequisites: BSC 211 and BSC 212, or equivalent and ME 654.

**ME 659 Micro Pressure and Flow Sensors for Biomedical Applications (3.0)**  
Prerequisites: Graduate/professional standing.

**ME 660 Micro-Electro-Mechanical Systems (MEMS) Design (3.0)**  
Prerequisites: Graduate/Professional Standing or permission of instructor.

**ME 661 Advanced Thermodynamics (3.0)**  
Prerequisite: Graduate School or Professional School Standing.

**ME 662 Intermediate Heat Transfer (3.0)**  
Prerequisites: ME 440.

**ME 663 Heat Conduction (3.0)**  
Prerequisite: ME 440.

**ME 664 Heat Convection (3.0)**  
Prerequisite: ME 440.

**ME 665 Radiation Heat Transfer (3.0)**  
Prerequisite: ME 440.

**ME 667 Solar Energy Applications (3.0)**  
Prerequisites: ME 401 and ME 440.

**ME 668 Advanced Mechanical Vibrations (3.0)**  
Prerequisite: ME 521.

**ME 669 Advanced Dynamics (3.0)**  
Prerequisite: Graduate School or Professional School Standing.

**ME 671 Advanced Fluid Mechanics (3.0)**  
Prerequisite: ME 401.

**ME 673 Nuclear Reactor Design (3.0)**  
Prerequisite: ME 560.

**ME 675 Advanced Topics in Mechanical Engineering (1.0-6.0)**  
Prerequisite: Faculty consent.

**ME 688 Independent Study in Mechanical Engineering (1.0-6.0)**

**ME 690 M.S. Thesis in Mechanical Engineering (1.0-6.0)**

**ME 694 Mechanical Engineering Seminar (0.0)**  
Prerequisites: Graduate/professional school standing.

**ME 697 Master of Engineering Thesis in Mechanical Engineering (1.0-8.0)**  
Prerequisite: Graduate/Professional School standing.

**ME 700 Dissertation Research in Mechanical Engineering (1.0-18.0)**  
Prerequisites: Completion of doctoral program core and permission of dissertation director.

Master of Engineering Residency

**MENG 600 Master of Engineering Residency (0.0)**

## Management

**MGMT 101 Introduction to Business (3.0)**  
Note: May not be taken by juniors or seniors in the College of Business and Public Administration.

**MGMT 201 Business Statistics (3.0)**  
Prerequisite: MATH 107.

**MGMT 300 Business Communications (3.0)**  
Prerequisite: ENGL 101, 102.

**MGMT 301 Management and Organizational Behavior (3.0)**  
Prerequisites: ECON 201 and CIS 100.

**MGMT 305 Human Resource Management (3.0)**  
Prerequisite: MGMT 301.

**MGMT 321 Office Procedures and Management (3.0)**  
Prerequisite: MGMT 301.

**MGMT 331 Labor Economics (3.0)**  
Prerequisite: ECON 201-202.  
Note: Cross-listed with ECON 331.

**MGMT 332 Employment Law (3.0)**  
Prerequisite: MGMT 305.

**MGMT 340 Entrepreneurship (3.0)**  
Prerequisite: MGMT 301.

**MGMT 350 Statistical Inference and Forecasting (3.0)**  
Prerequisite: MGMT 201.

**MGMT 358 Management Science (3.0)**  
Prerequisite: MGMT 201.

**MGMT 360 Managing the Multinational Enterprise (3.0)**  
Prerequisite: MGMT 301.

**MGMT 397 Co-op in Management (1.0-3.0)**  
Prerequisite: MGMT 301, University GPA 2.5, application to the co-op program and completion of orientation processes should be completed prior to employment. Management majors only.

**MGMT 398 Co-op in Management II (1.0-3.0)**  
Prerequisite: MGMT 397, University GPA 2.5 and validation through the CBPA Co-op Office.

**MGMT 399 Co-op in Management III (3.0)**  
Prerequisite: Permission of CBPA Co-op Office.

**MGMT 400 Design of Experiments (3.0)**  
Prerequisite: MGMT 350.

**MGMT 401 Operations Management (3.0)**  
Prerequisite: MGMT 201.

**MGMT 402 Essentials of Organizational Behavior (3.0)**  
Prerequisite: MGMT 301.

**MGMT 403 Total Quality Management (3.0)**  
Prerequisite: MGMT 301.

**MGMT 404 Project Management (3.0)**

Prerequisites: MGMT 201- Business Statistics.

**MGMT 405 Process Measurement and Experimentation (3.0)**

Prerequisite: MGMT 401.

**MGMT 407 Human Resource Development (3.0)**

Prerequisite: MGMT 305.

**MGMT 421 Collective Bargaining (3.0)**

Prerequisite: MGMT 305.

**MGMT 425 Professional Skills for Managers II (1.0)**

Prerequisite: MGMT 325.

**MGMT 435 Business and Society (3.0)**

Prerequisite: Minimum of 12 semester hours chosen from FIN 301, MGMT 301, MKT 301, CIS 300, CLAW 301, MGMT 401.

**MGMT 440 Small Business Counseling (3.0)**

Prerequisites: FIN 301, MGMT 301, MKT 301, CIS 300, CLAW 301, MGMT 401 and senior standing.

**MGMT 441 Business Strategy and Policy (3.0)**

Prerequisites: FIN 301, MGMT 301, MKT 301, CIS 300, CLAW 301, MGMT 401 and senior standing.

**MGMT 458 Management Decision Making (3.0)**

Prerequisites: MGMT 201 - Business Statistics.

**MGMT 460 Images of Leadership (3.0)**

Prerequisites: MGMT 301 and MGMT 401.

**MGMT 477 Theory of Constraints (3.0)**

Prerequisites: MGMT 401.

**MGMT 490 Special Topics in Management (1.0-3.0)**

**MGMT 499 Independent Study in Management (1.0-3.0)**

**MILS 302 Theory and Dynamics of the Military Team (3.0)**

Prerequisite: MILS 301 or faculty consent.

Note: Spring only.

**MILS 311 Army Physical Fitness I (1.0)**

**MILS 312 Army Physical Fitness II (1.0)**

**MILS 401 Leadership and Management II (3.0)**

Prerequisite: MILS 301 and 302.  
Note: Fall only.

**MILS 402 Theory and Dynamics of the Military Team II (3.0)**

Prerequisite: MILS 401.

Note: Spring only.

**MILS 410 Independent Study in Military Science and Leadership (1.0-6.0)**

Prerequisite: MILS 301 and 302.

**MILS 411 Army Physical Fitness III (1.0)**

**MILS 412 Army Physical Fitness IV (1.0)**

Marketing

**MKT 301 Principles of Marketing (3.0)**

Prerequisite: CIS 100, Econ 201, Mgmt 201.

**MKT 310 Interactive Retailing (3.0)**

Prerequisites: MKT 301.

**MKT 311 Marketing Channels (3.0)**

Prerequisite: MKT 301.

**MKT 341 Integrated Marketing Communication (3.0)**

Prerequisite: MKT 301.

**MKT 345 Direct Marketing (3.0)**

Prerequisite: MKT 301.

**MKT 349 Business to Business Marketing (3.0)**

Prerequisite: MKT 301.

**MKT 350 Consumer Behavior (3.0)**

Prerequisite: MKT 301.

**MKT 360 Professional Relationship Selling (3.0)**

Prerequisite: MKT 301.

**MKT 370 Global Marketing (3.0)**

Prerequisite: MKT 301.

**MKT 380 Services Marketing (3.0)**

Prerequisite: MKT 301.

**MKT 397 Co-op in Marketing I (1.0-3.0)**

Prerequisite: MKT 301, U of L GPA 2.5 and validation through CBPA Co-op Office.

**MKT 398 Co-op in Marketing II (1.0-3.0)**

Prerequisite: MKT 397, U of L GPA 2.5, and validation through the CBPA Co-op Office.

**MKT 399 Co-op in Marketing III (3.0)**

Prerequisite: Permission of CBPA Co-op Office.

**MKT 401 Strategic Sales Leadership (3.0)**

Prerequisites: MKT 301.

**MKT 406 Purchasing and Supply Mgmt (3.0)**

Prerequisites: MKT 301.

**MKT 412 Logistics and Physical Distribution (3.0)**

Prerequisite: MKT 301.

**MKT 441 Marketing Research (3.0)**

Prerequisite: MKT 301.

**MKT 460 Integrative Marketing Strategy-WR (3.0)**

Prerequisites: MKT 350 & MKT 441.

Note: Approved for the General Education requirement in written communication (WR).

**MKT 465 Advanced Professional Relationship Selling (3.0)**

Prerequisites: MKT 360.

**MKT 490 Special Topics in Marketing (1.0-3.0)**

Prerequisites: MKT 301.

**MKT 499 Independent Study in Marketing (1.0-3.0)**

Prerequisites: MKT 301.

Mathematics  
(Pathways)

**MT 55 Pre-Algebra (3.0)**

**MT 65 Basic Algebra (3.0)**  
Prerequisites: MAH 060 or MT 055 or placement test recommendation.  
Note: Placement in MT 065 is equivalent to placement in MAH 070.

**MT 80 Intermediate Algebra: A Functional Approach (4.0)**

Prerequisites: MAH 070 or MT 065 or placement test recommendation.  
Note: Placement in MT 080 is equivalent to placement in MAH 080.

Music Education

**MUED 520 Student Teaching in the Elementary School (4.0)**

Prerequisite: Admission to teacher education, MUED 556, 2.50 overall grade-point average, 2.50 grade-point average in professional education.  
Note: To be taken concurrently with MUED 533 and MUED 534.

**MUED 533 Human Interaction/Professional Growth (2.0)**

Prerequisite: Admission to teacher education, MUS 228, MUED 556.  
Note: To be taken concurrently with MUED 520 and 534.

**MUED 534 Student Teaching in the Secondary School (4.0)**

Prerequisite: Admission to teacher education, MUS 228, MUED 556, 2.50 overall grade-point average, 2.50 grade-point average in major teaching field, 2.50 grade-point average in professional education courses.  
Completion of 24 hours of teaching major is required.

Note: To be taken concurrently with MUED 520 and 533.

**MUED 556 Special Methods in Secondary Teaching (3.0)**

Prerequisite: Admission to teacher education and MUS 228.

Note: Taken prior to MUED 520, 533, and 534.

Music History

Note: *Not open to music majors.*

**MUH 204 Music in Western Civilization - A (3.0)**

Note: Not open to Music majors.

**MUH 205 Music in World Cultures - SBCD1 (3.0)**

Note: Cross-listed with ANTH 205.  
Note: Not open to Music majors.

**MUH 212 History of Rock and Roll - A (3.0)**

Prerequisite: Sophomore standing.  
Note: Not open to Music majors.

**MUH 214 African American Music - ACD1 (3.0)**

Note: Cross-listed with PAS 214.  
Note: Not open to Music majors.

**MUH 218 Survey of American Jazz- ACD1 (3.0)**

Note: Cross-listed with PAS 218.  
Note: Not open to Music majors.

**MUH 301 Fundamentals of Music for Nonmajors (3.0)**

Note: Not open to Music majors.

**MUH 303 Music of the Middle Ages and Renaissance (3.0)**

Prerequisite: MUH 204 or faculty consent.  
Note: Not open to Music majors.

**MUH 304 Music of the Baroque (3.0)**

Prerequisite: MUH 204 or faculty consent.  
Note: Not open to Music majors.

**MUH 305 Music of the Classical and Early Romantic Periods (3.0)**

Prerequisite: MUH 204 or faculty consent.  
Note: Not open to Music majors.

**MUH 306 Music of the Late Romantic and Modern Periods (3.0)**

Prerequisite: MUS 204 or faculty consent.  
Note: Not open to Music majors.

**MUH 308 Music in America (3.0)**

Note: Not open to Music majors.

**MUH 309 Music in the Theatre (3.0)**

Note: Not open to Music majors.

**MUH 310 History of Jazz (3.0)**

Note: Not open to Music majors.

Military Science

**MILS 101 Leadership and Adventure I (1.0)**

**MILS 102 Leadership and Adventure II (1.0)**

Refer to: MILS 101

**MILS 201 Intermediate Leadership Skill Development I (2.0)**

Prerequisite: MILS 101-102 or faculty consent.

**MILS 202 Intermediate Leadership Skill Development II (2.0)**

Refer to: MILS 201

**MILS 301 Leadership and Management (3.0)**

Prerequisite: MILS 101-102, 201-202; or faculty consent.  
Note: Fall only.

**MUH 311 Studies in American Traditional Music (3.0)**

Note: Not open to Music majors.

**MUH 313 Studies in Ethnomusicology (3.0)**

Note: Cross-listed with ANTH 313.

Note: Not open to Music majors.

**MUH 316 Pan-American Musics (3.0)**

Prerequisites: MUH 204 or consent of the instructor.

Note: Not open to Music majors.

**MUH 317 The History of American Popular Music (3.0)**

Note: Not open to Music majors.

**MUH 401 Senior Thesis (2.0)**

Note: Not open to Music majors.

**MUS 116 Introduction to Music Education (1.0)**

Prerequisite: Must be taken within the first two semesters of enrollment at UofL.

**MUS 117 Jazz Piano Class (1.0)**

**MUS 118 Introduction to Jazz Improvisation (1.0)**

Prerequisite: Admission to School of Music or by approval of instructor.

**MUS 119 MINOR ENSEMBLES (0.5)**

Prerequisite: Faculty consent.

**MUS 121 SECONDARY INSTRUMENT (1.0)**

Prerequisite: Faculty consent.

**MUS 122 SECONDARY INSTRUMENT (1.0)**

Prerequisite: Faculty consent.

**MUS 123 DICTION (1.0)**

**MUS 124 DICTION (1.0)**

Prerequisite: Grasp of International Phonetic language needed for MUS 124.

**MUS 125 ARTS INSTRUMENT (1.0)**

Prerequisite: Faculty consent.

**MUS 126 ARTS INSTRUMENT (1.0)**

Prerequisite: Faculty consent.

**MUS 127 CLASS PIANO-BEGINNERS I (1.0)**

Note: Not open to Music majors.

**MUS 128 CLASS PIANO-BEGINNERS II (1.0)**

Note: Not open to Music majors.

**MUS 129 Cardinal Singers (0.5)**

Prerequisite: Faculty consent.

**MUS 130 Jazz Piano Class (1.0)**

Prerequisite: MUS 132 or approval of instructor.

**MUS 131 PIANO CLASS (1.0)**

**MUS 132 PIANO CLASS (1.0)**

**MUS 133 FUNCTIONAL STUDY (1.0)**

Prerequisite: Faculty consent.

**MUS 134 Functional Study (1.0)**

Prerequisite: Faculty consent.

**MUS 135 BRASS METHODS I (1.0)**

**MUS 136 BRASS METHODS II (1.0)**

**MUS 137 PERCUSSION METHODS (1.0)**

**MUS 138 JAZZ IMPROVISATION (2.0)**

**MUS 141 THEORY I (4.0)**

Prerequisite: Music majors only except by permission of instructor.

**MUS 142 THEORY II (4.0)**

Prerequisite: Music majors only, except by permission of instructor.

**MUS 143 COMPOSITION I (2.0)**

Prerequisite: Permission of instructor.

**MUS 144 COMPOSITION II (2.0)**

Prerequisite: Permission of instructor.

**MUS 145 COMPOSITION (2.0)**

Prerequisite: Permission of instructor.

**MUS 146 COMPOSITION (2.0)**

Prerequisite: Permission of instructor.

**MUS 150 Practical Applications and Practices of Computers in the Arts (3.0)**

**MUS 197 PIANO PROFICIENCY (0.0)**

**MUS 198 Jazz Piano Proficiency (0.0)**

**MUS 201 MAJOR INSTRUMENT (2.0)**

Prerequisite: Faculty consent.

**MUS 202 MAJOR INSTRUMENT (2.0)**

Prerequisite: Faculty consent.

**MUS 203 MAJOR INSTRUMENT (4.0)**

**MUS 204 MAJOR INSTRUMENT (4.0)**

**MUS 205 Jazz Applied (2.0)**

Prerequisite: Faculty consent.

**MUS 206 Jazz Applied (2.0)**

Prerequisite: Faculty consent.

**MUS 211 PRINCIPAL INSTRUMENT (2.0)**

Prerequisite: Faculty consent.

**MUS 212 PRINCIPAL INSTRUMENT (2.0)**

Prerequisite: Faculty consent.

**MUS 213 PRINCIPAL INSTRUMENT (4.0)**

Prerequisite: Faculty consent.

**MUS 214 PRINCIPAL INSTRUMENT (4.0)**

Prerequisite: Faculty consent.

**MUS 217 Class Guitar I (1.0)**

Prerequisites: Prior knowledge & experience in basic musical skills (note reading, basic theory) is preferred, but not required.

For Music Therapy majors.

**MUS 218 Class Guitar II (1.0)**

Prerequisites: MUS 217 or by permission of instructor.

For Music Therapy majors.

**MUS 221 SECONDARY INSTRUMENT (1.0)**

Prerequisite: Faculty consent.

**MUS 222 SECONDARY INSTRUMENT (1.0)**

Prerequisite: Faculty consent.

**MUS 225 ARTS INSTRUMENT (1.0)**

Prerequisite: Faculty consent.

**MUS 226 ARTS INSTRUMENTS (1.0)**

Prerequisite: Faculty consent.

**MUS 227 VOICE CLASS (1.0)**

Note: Music majors in Fall; non-music majors in Spring.

**MUS 228 ELEM SCH MUS METH (2.0)**

Prerequisite: MUS 232.

**MUS 231 PIANO CLASS (1.0)**

**MUS 232 PIANO CLASS (1.0)**

**MUS 233 Functional Study (1.0)**

Prerequisite: Faculty consent.

**MUS 234 Functional Study (1.0)**

Prerequisite: Faculty consent.

**MUS 235 WOODWIND METHODS I (1.0)**

**MUS 236 WOODWIND METHODS II (1.0)**

**MUS 241 THEORY III (4.0)**

Prerequisite: Music majors only except by permission of instructor.

**MUS 242 THEORY IV (4.0)**

Prerequisite: Music majors only except by permission of instructor.

**MUS 243 COMPOSITION (2.0)**

Prerequisite: Theory II or permission of instructor.

Corequisite: MUS 441.

**MUS 244 COMPOSITION (2.0)**

Corequisite: MUS 441.

**MUS 265 SERVICE PLAYING I (2.0)**

**MUS 266 SERVICE PLAYING II (2.0)**

**MUS 297 PIANO PROFICIENCY (0.0)**

**MUS 301 MAJOR INSTRUMENT (2.0)**

Prerequisite: Faculty consent.

**MUS 302 MAJOR INSTRUMENT (2.0)**

Prerequisite: Faculty consent.

**MUS 303 MAJOR INSTRUMENT (4.0)**

**MUS 304 MAJOR INSTRUMENT (4.0)**

**MUS 305 Jazz Applied (2.0)**

Prerequisite: Faculty consent.

**MUS 306 Jazz Applied (2.0)**

Prerequisite: Faculty consent.

**MUS 311 PRINCIPAL INSTRUMENT (2.0)**

Prerequisite: Faculty consent.

**MUS 312 PRINCIPAL INSTRUMENT (2.0)**

Prerequisite: Faculty consent.

**MUS 313 PRINCIPAL INSTRUMENT (4.0)**

Prerequisite: Faculty consent.

**MUS 314 PRINCIPAL INSTRUMENT (4.0)**

Prerequisite: Faculty consent.

**MUS 321 SECONDARY INSTRUMENT (1.0)**

Prerequisite: Faculty consent.

**MUS 322 SECONDARY INSTRUMENT (1.0)**

Prerequisite: Faculty consent.

**MUS 325 ARTS INSTRUMENT (1.0)**

Prerequisite: Faculty consent.

**MUS 326 ARTS INSTRUMENT (1.0)**

Prerequisite: Faculty consent.

**MUS 328 JR.&MID.SCH. METHODS (2.0)**

Prerequisite: MUS 228.

**MUS 331 PIANO CLASS (1.0)**

Prerequisite: MUS 232.

**MUS 332 PIANO CLASS (1.0)**

Prerequisite: MUS 232.

**MUS 333 Functional Study (1.0)**

Prerequisite: Faculty consent.

**MUS 334 Functional Study (1.0)**

Prerequisite: Faculty consent.

**MUS 335 STRING METHODS I (1.0)**

**MUS 336 STRING METHODS II (1.0)**

**MUS 337 MARCHING BAND TECH (2.0)**

**MUS 338 JAZZ METHODS (2.0)**

Prerequisite: Theory IV or permission of instructor.

Music

*All School of Music courses are open to qualified students; please consult individual instructors or the School of Music Dean's office.*

**MUS 91 Fundamentals of Music 1 (2.0)**

Prerequisite: Music majors only, except with permission of instructor.

**MUS 92 Fundamentals of Music II (2.0)**

Prerequisite: Music majors only, except with permission of instructor.

**MUS 97 Recital Attendance (0.0)**

**MUS 100 Introduction to Music Study (Course formally titled**

**Camp.Culture) (1.0)**

NOTE: Required of all incoming freshmen and transfer students with fewer than 24 semester hours entering the School of Music.

**MUS 101 Major Instrument (2.0)**

Prerequisite: Faculty consent.

**MUS 102 Major Instrument (2.0)**

Prerequisite: Faculty consent.

**MUS 103 Major Instrument (4.0)**

**MUS 104 Major Instrument (4.0)**

**MUS 105 Jazz Applied (2.0)**

Prerequisite: Faculty consent.

**MUS 106 Jazz Applied (2.0)**

Prerequisite: Faculty consent.

**MUS 109 Major Ensembles (1.0)**

**MUS 111 PRINCIPAL INSTRUMENT (2.0)**

Prerequisite: Faculty consent.

**MUS 112 PRINCIPAL INSTRUMENT (2.0)**

Prerequisite: Faculty consent.

**MUS 113 PRINCIPAL INSTRUMENT (4.0)**

Prerequisite: Faculty Consent.

**MUS 114 PRINCIPAL INSTRUMENT (4.0)**

Prerequisite: Faculty consent.

- MUS 339 String Pedagogy and Educational String Literature (1.0)**  
Prerequisites: MUS 335 and MUS 336 or permission of instructor.
- MUS 340 Jazz Improvisation II (2.0)**  
Prerequisites: MUS 138 or permission of instructor.
- MUS 343 COMPOSITION (2.0)**  
Prerequisite: Completion of Theory IV with a minimum grade of B, or permission of instructor.  
Corequisite: MUS 441.
- MUS 344 COMPOSITION (2.0)**  
Corequisite: MUS 441.
- MUS 345 ORCHESTRATION I (2.0)**  
Prerequisite: MUS 242.
- MUS 346 ORCHESTRATION II (2.0)**  
Prerequisite: MUS 242.
- MUS 347 ANALYSIS I (2.0)**  
Prerequisite: MUS 242.
- MUS 348 ANALYSIS II (2.0)**  
Prerequisite: MUS 242.
- MUS 351 Jazz Theory I (2.0)**  
Prerequisite: MUS 138 and MUS 242.
- MUS 355 The Evolution of Jazz (3.0)**  
Prerequisites: MUS 138, MUS 242, and MUS 361 series or permission of instructor.
- MUS 359 CONDUCTING I (2.0)**  
Prerequisite: Theory I-IV.
- MUS 360 CONDUCTING II (2.0)**  
Prerequisite: MUS 359 Conducting I.
- MUS 361 Music Literature (3.0)**  
Prerequisite: Theory I and II.  
Permission of instructor required for non-music majors.
- MUS 370 Topics in the History of Musical Forms (3.0)**  
Prerequisite: MUS 361 series or permission of instructor.
- MUS 371 PIANO PEDAGOGY I (3.0)**
- MUS 372 PIANO PEDAGOGY II (3.0)**
- MUS 397 JUNIOR RECITAL (0.0)**
- MUS 400 THEORY REVIEW (0.0)**
- MUS 401 MAJOR INSTRUMENT (2.0)**  
Prerequisite: Faculty consent.
- MUS 402 MAJOR INSTRUMENT (2.0)**  
Prerequisite: Faculty consent.
- MUS 403 MAJOR INSTRUMENT (4.0)**
- MUS 404 MAJOR INSTRUMENT (4.0)**
- MUS 405 Jazz Applied (2.0)**  
Prerequisite: Faculty consent.
- MUS 406 Jazz Applied (2.0)**  
Prerequisite: Faculty consent.
- MUS 411 PRINCIPAL INSTRUMENT (2.0)**  
Prerequisite: Faculty consent.
- MUS 412 PRINCIPAL INSTRUMENT (2.0)**  
Prerequisite: Faculty consent.
- MUS 413 PRINCIPAL INSTRUMENT (4.0)**  
Prerequisite: Faculty consent.
- MUS 414 PRINCIPAL INSTRUMENT (4.0)**  
Prerequisite: Faculty consent.
- MUS 421 SECONDARY INSTRUMENT (1.0)**  
Prerequisite: Faculty consent.
- MUS 422 SECONDARY INSTRUMENT (1.0)**  
Prerequisite: Faculty consent.
- MUS 425 ARTS INSTRUMENT (1.0)**  
Prerequisite: Faculty consent.
- MUS 426 ARTS INSTRUMENT (1.0)**  
Prerequisite: Faculty consent.
- MUS 428 CHORAL TECHNIQUES (2.0)**  
Prerequisite: MUS 359.
- MUS 433 Functional Study (1.0)**  
Prerequisite: Faculty consent.
- MUS 434 Functional Study (1.0)**  
Prerequisite: Faculty consent.
- MUS 435 JAZZ ARRANGING I (2.0)**  
Prerequisite: Theory IV or permission of instructor.
- MUS 436 JAZZ ARRANGING II (2.0)**  
Prerequisite: MUS 435 or permission of instructor.
- MUS 437 JAZZ ARRANGING III (2.0)**  
Prerequisite: MUS 436 or permission of instructor.
- MUS 440 Jazz Improvisation III (2.0)**  
Prerequisites: Jazz Improvisation II (MUS 340), at least four semesters of Jazz Combo or Jazz Ensemble, or by approval of instructor.
- MUS 441 COMPOSITION SEMINAR (0.5)**
- MUS 443 COMPOSITION (2.0)**  
Corequisite: MUS 441.
- MUS 444 COMPOSITION (2.0)**  
Corequisite: MUS 441.
- MUS 445 CHORAL ARRANGING (2.0)**  
Prerequisite: MUS 242.
- MUS 446 BAND SCORING (2.0)**  
Prerequisite: MUS 345.  
Note: May substitute for MUS 346 when appropriate, such as degrees in music education.
- MUS 447 20TH CENT ANALYSIS I (2.0)**
- MUS 448 20TH CENT ANALYSIS II (2.0)**
- MUS 461 BAROQUE KEYBOARD LIT (2.0)**
- MUS 471 PIANO PEDAGOGY III (3.0)**
- MUS 472 PIANO PEDAGOGY IV (3.0)**
- MUS 497 SENIOR RECITAL (0.0)**
- MUS 498 Senior Thesis (0.0)**  
Prerequisite: For Theory Majors.
- MUS 499 Senior Research Paper/Project for Music History Majors (0.0)**
- MUS 500 Music History Review (0.0)**
- MUS 501 Major Instrument (2.0)**  
Prerequisite: Faculty consent.
- MUS 502 Major Instrument (2.0)**  
Prerequisite: Faculty consent.
- MUS 503 Major Instrument (4.0)**
- MUS 504 Major Instrument (4.0)**  
Refer to: MUS 503.
- MUS 505 Jazz Applied (2.0)**  
Prerequisites: MUS 406.
- MUS 506 Jazz Applied (2.0)**  
Prerequisites: MUS 505.
- MUS 509 Major Ensembles (1.0)**
- MUS 511 Principal Instrument (2.0)**  
Prerequisite: Faculty consent.
- MUS 512 Principal Instrument (2.0)**  
Prerequisite: Faculty consent.
- MUS 513 Principal Instrument (4.0)**  
Prerequisite: Faculty consent.
- MUS 514 Principal Instrument (4.0)**  
Prerequisite: Faculty consent.
- MUS 519 Minor Ensembles (0.5)**
- MUS 521 Secondary Instrument (1.0)**  
Prerequisite: Faculty consent.
- MUS 522 Secondary Instrument (1.0)**  
Prerequisite: Faculty consent.
- MUS 525 Arts Instrument (1.0)**
- MUS 526 Arts Instrument (1.0)**  
Prerequisite: Faculty consent.
- MUS 527 Choral Music in the Modern Secondary School (2.0)**
- MUS 529 Cardinal Singers (0.5)**
- MUS 533 Functional Study (1.0)**  
Prerequisite: Permission of instructor.
- MUS 534 Functional Study (1.0)**  
Prerequisite: Faculty consent.
- MUS 535 Music Industry I (2.0)**  
Prerequisite: Sixty hours of credit.
- MUS 536 Music Industry II (2.0)**  
Prerequisite: MUS 535.
- MUS 537 Advanced Techniques for Marching Bands (2.0)**  
Prerequisite: MUS 337 or permission of instructor.
- MUS 539 Studies in Jazz (2.0)**
- MUS 543 Advanced Composition (3.0)**  
Corequisite: MUS 669.
- MUS 544 Advanced Composition (3.0)**  
Corequisite: MUS 669.
- MUS 545 Advanced Orchestration (2.0)**  
Prerequisite: MUS 346 or permission of instructor.
- MUS 546 Advanced Orchestration (2.0)**  
Prerequisite: MUS 346 or permission of instructor.
- MUS 547 Chromatic Harmony and Analysis (2.0)**  
Prerequisite: MUS 242, MUS 347.
- MUS 548 Analysis of Twentieth Century Music (2.0)**  
Prerequisite: MUS 242, MUS 547.
- MUS 549 Counterpoint I (2.0)**  
Prerequisite: MUS 242.
- MUS 550 Counterpoint II (2.0)**  
Prerequisite: MUS 549.
- MUS 553 Computers & Music I (2.0)**  
Prerequisite: Consent of instructor.
- MUS 554 Computers & Music II (2.0)**  
Prerequisite: MUS 553 or permission of instructor.
- MUS 555 Instrument Repair (2.0)**
- MUS 557 Piano Technology I (2.0)**  
Prerequisites: Permission of instructor.
- MUS 558 Piano Technology II (2.0)**  
Prerequisites: Permission of the instructor or MUS 557.
- MUS 559 Instrumental Conducting and Score Reading (2.0)**  
Prerequisite: MUS 346 (Orchestration II) and MUS 446 (Band Scoring) or permission of instructor.
- MUS 561 Literature (2.0)**  
Prerequisite: MUS 361 series or permission of instructor.  
Offered under the various subtitles as: Piano Literature; Band Literature; Organ Literature; Vocal Literature.
- MUS 562 Literature (2.0)**  
Refer to: MUS 561.
- MUS 563 Literature (1.0)**  
Offered under the various sections as: Violin Literature; Flute Literature; Trumpet Literature; Opera Literature.
- MUS 564 Literature (1.0)**  
Refer to: MUS 563.
- MUS 565 Church Music Literature (2.0)**
- MUS 566 Church Music Literature (2.0)**  
Refer to: MUS 565.
- MUS 567 Digital Techniques I (2.0)**  
Prerequisites: Background in music composition.
- MUS 568 Digital Techniques II (2.0)**  
Prerequisites: Digital Techniques I.
- MUS 570 Studies in Music History (3.0)**  
Prerequisite: See note.  
Note: Courses 570, 580, and 585-586 are intended for masters and for advanced undergraduates admitted by permission of the instructor and with the recommendation of the undergraduate advisor. Master's degree students may, however, enroll in these courses at the 600-level under two conditions: (1) when 600-level courses are required by a specific curriculum (e.g., M.M. in Music History), and (2) with the approval of the student's advisor. Undergraduates may not register in these courses at the 600-level without the approval in writing of the chair of the Music History Department.
- MUS 571 Pedagogy (2.0)**  
Prerequisite: MUS 371, 372, 471, 472.
- MUS 572 Pedagogy (2.0)**  
Refer to: MUS 571.



**MUS 573 Piano Pedagogy Practicum (0.0-2.0)**

Prerequisite: MUS 372.  
Corequisite: MUS 471-472.

**MUS 574 Piano Pedagogy Practicum (2.0)**

Refer to: MUS 573.

**MUS 580 Seminars in the Music of the Great Composers (3.0)**

Prerequisite: See note following course MUS 570.

**MUS 582 Seminar in Historical Performance Practice (3.0)**

Prerequisite: Graduate standing or faculty consent.

**MUS 583 Notation and Analysis (3.0)**

Prerequisite: Permission of instructor.

**MUS 585 Seminars in the History of Forms, Media, Philosophy, or Techniques of Composition (3.0)**

Prerequisite: MUS 361 series; See note following course MUS 570.

**MUS 590 Independent Study (0.5-3.0)**

**MUS 591 Special Topics (1.0-3.0)**  
Prerequisites: Permission of instructor.

**MUS 597 Recital (0.0)**

Music Education (MUSE)

Note: *Not open to music majors.*

**MUSE 525 Public School Music (3.0)**

Note: Undergraduate or graduate credit.

**MUSE 590 Independent Study (1.0-3.0)**

Note: Not open to music majors.

Music Therapy

**MUTH 101 Introduction to Music Therapy (1.0)**

Note: Open to all interested students.

**MUTH 201 Music Therapy Techniques I (3.0)**

Prerequisites: MUTH 101; matriculation as a music therapy major.

**MUTH 202 Music Therapy Techniques II (3.0)**

Prerequisites: MUTH 201; matriculation as a music therapy major.

**MUTH 213 Clinical Music Therapy Applications I (0.5)**

Prerequisites: MUTH 101.

**MUTH 214 Clinical Music Therapy Applications II (0.5)**

Prerequisites: MUTH 213.

**MUTH 301 Psychology of Music (3.0)**

Prerequisites: Courses or other background in music; therapy majors take concurrently with Practicum in Music Therapy.

**MUTH 311 Improvisation for Music Therapy I (1.0)**

Prerequisites: MUTH 202, MUS 232, MUS 297.

**MUTH 312 Improvisation for Music Therapy II (1.0)**

Prerequisites: MUTH 311.

**MUTH 313 Clinical Music Therapy Applications III (0.5)**

Prerequisites: MUTH 214.

**MUTH 314 Clinical Music Therapy Applications IV (0.5)**

Prerequisites: MUTH 313.

**MUTH 315 Piano Accompaniment for Music Therapy (1.0)**

Prerequisites: MUS 232, MUS 297.

**MUTH 321 Practicum in Music Therapy I (1.0)**

Prerequisite: MUTH 202; matriculation as a Music Therapy major.

**MUTH 322 Practicum in Music Therapy II (1.0)**

Prerequisites: MUTH 321; matriculation as a Music Therapy major.

**MUTH 325 Music Therapy Training Group I (1.0)**

Prerequisites: Three (3) Music Therapy courses or permission of instructor.

**MUTH 326 Music Therapy Training Group II (1.0)**

Prerequisite: MUTH 325.

**MUTH 413 Clinical Music Therapy Applications V (0.5)**

Prerequisites: MUTH 314.

**MUTH 414 Clinical Music Therapy Applications VI (0.5)**

Prerequisites: MUTH 413.

**MUTH 421 Practicum in Music Therapy III (1.0)**

Prerequisites: MUTH 322; matriculation as a Music Therapy major.

**MUTH 422 Practicum in Music Therapy IV (1.0)**

Prerequisites: MUTH 421; matriculation as a Music Therapy major.

**MUTH 431 Principles and Practices of Music Therapy I (3.0)**

Prerequisites: MUTH 301; matriculation as a music therapy major; taken concurrently with Practicum in Music Therapy.

**MUTH 432 Principles and Practices of Music Therapy 2 (3.0)**

Prerequisites: MUTH 431; matriculation as a music therapy major; taken concurrently with Practicum in Music Therapy.

**MUTH 441 Introduction to Research in Music Therapy (3.0)**

Prerequisites: MUTH 432; non-music therapy majors may take with permission of instructor.

**MUTH 451 Music Therapy Internship (2.0)**

Prerequisites: Completion of all other courses towards music therapy degree.

Nursing

**NURS 101 S.T.A.T. for Nursing Students (Success Tips And Techniques) (1.0)**

**NURS 330 Special Topics (1.0-15.0)**

Prerequisite: Refer to Nursing "Schedule Notes" available through the Office of Student Services, School of Nursing.

**NURS 338 Lifespan Pathophysiology (4.0)**

Note: For Accelerated 2nd Degree students.  
Prerequisite: BIOL 260.  
Pre or Co-requisite: BIOL 261-262.

**NURS 340 Lifeskills for Nursing I - CD1 (15.0)**

Prerequisites: Pre-Professional Curriculum; completion of a CNA course or equivalent;  
Pre or corequisite: NURS 395.

**NURS 350 Lifeskills for Nursing II (15.0)**

Prerequisites: NURS 338, NURS 340, NURS 395.

**NURS 355 RN Portfolio Development and Evaluation (3.0)**

Prerequisites; Admission to the RN-BSN accelerated program.

**NURS 360 Health Status Assessment (3.0)**

Prerequisites: Admission to the Accelerated RN-BSN program and completion of foundational coursework.

**NURS 370 Integration for Practice (3.0)**

Prerequisites: Admission to the Accelerated RN-BSN program and completion of foundational coursework.

**NURS 395 Basic Pharmacology (3.0)**

Prerequisites: Admission to Professional Curriculum Upper Division or by Instructor Permission.  
Note: For Accelerated 2nd Degree students;

Prerequisite: CHEM 105 and BIOL 260.

Pre or Co-requisites: BIOL 261 and 262

**NURS 440 Lifeskills for Nursing 3 (15.0)**

Prerequisite: NURS 350.

**NURS 450 Lifeskills for Nursing 4 (15.0)**

Prerequisite: NURS 440.

**NURS 465 Research in Clinical Practice (3.0)**

Prerequisites: NURS 338, NURS 360, NURS 370, NURS 395.

**NURS 470 Community Health Nursing- CD1 (9.0)**

Prerequisites: NURS 338, NURS 360, NURS 370, NURS 395.

**NURS 475 Professional Issues (1.0)**

Prerequisites: NURS 465, NURS 470.

**NURS 480 Complex Health Management (8.0)**

Prerequisites: NURS 465, NURS 470.

**NURS 485 Management of Health Care (3.0)**

Prerequisites: NURS 465, NURS 470.

Paralegal Studies

**PARA 101 Legal Systems and the Paralegal (3.0)**

**PARA 102 Legal Research and Writing (3.0)**

Note: May be taken concurrently with PARA 101.

**PARA 203 Advanced Legal Research and Writing (3.0)**

Prerequisite: PARA 101-102; 2.5 overall GPA 2.75 GPA in 101-102.  
Note: Formerly PARA 103.

**PARA 305 Family Law (3.0)**

Prerequisite: PARA 101-102; 2.5 overall GPA; 2.75 GPA in PARA courses.

**PARA 310 Torts for Paralegals (3.0)**

Prerequisite: PARA 101-102; 2.5 overall GPA; 2.75 GPA in PARA courses.

**PARA 320 Computers and the Law (3.0)**

Prerequisite: PARA 101-102; 2.5 overall GPA; 2.75 GPA in PARA courses.

**PARA 325 Litigation (3.0)**

Prerequisite: PARA 101-102; 2.5 overall GPA; 2.75 GPA in PARA courses.

**PARA 326 Criminal Litigation (3.0)**

Prerequisite: PARA 101, 102, 2.5 overall GPA; 2.75 GPA in PARA courses.

**PARA 330 Bankruptcy Law for Paralegals (3.0)**

Prerequisite: PARA 101-102; 2.5 overall GPA; 2.75 GPA in PARA courses.

**PARA 335 Worker's Compensation/Social Security Laws for Paralegals (3.0)**

Prerequisite: PARA 101-102; 2.5 overall GPA; 2.75 GPA in PARA courses.

**PARA 340 Business Associations and Transactions (3.0)**

Prerequisite: PARA 101-102; 2.5 overall GPA; 2.75 GPA in PARA courses.

**PARA 350 Wills, Estates and Trusts (3.0)**

Prerequisite: PARA 101-102; 2.5 overall GPA; 2.75 GPA in PARA courses.

**PARA 360 Consumer Law (3.0)**  
Prerequisite: PARA 101-102; 2.5 overall GPA; 2.75 GPA in PARA courses.

**PARA 370 Real Estate Law for Paralegals (3.0)**  
Prerequisite: PARA 101-102; 2.5 overall GPA; 2.75 GPA in PARA courses.

**PARA 380 Insurance Law for Paralegals (3.0)**  
Prerequisite: PARA 101-102; 2.5 overall GPA; 2.75 GPA in PARA courses.

**PARA 390 Paralegal Internship (3.0)**  
Prerequisite: PARA 101, 102, 203 and 9 credit hours of 300-level PARA courses; 2.5 overall grade point average; 2.75 grade point average in PARA courses.

**PARA 391 Topics in Paralegal Studies (3.0)**  
Prerequisite: PARA 101, 102; 2.5 overall GPA; 2.75 GPA in PARA courses.

**PARA 399 Professional Ethics for Paralegals (1.0)**  
Prerequisite: Paralegal majors only; 2.5 overall GPA; 2.75 GPA in PARA courses.

## Pan-African Studies

**PAS 200 Introduction to Pan African Studies I - CD1 (3.0)**

**PAS 205 Race, Color and Consciousness - CD1 (3.0)**

**PAS 210 Introduction to Pan-African Literature (3.0)**

**PAS 214 African American Music - ACD1 (3.0)**  
Note: Crosslisted with MUH 214.

**PAS 215 Writing Strategies of 18th Century Black Writers (3.0)**

**PAS 218 Survey of American Jazz-ACD1 (3.0)**  
Note: Crosslisted with MUH 218.

**PAS 227 Survey of American Diversity - SBCD1 (3.0)**

**PAS 300 Special Topics (3.0)**

**PAS 310 African American Art I: From West Africa to 1920's - CD1 (3.0)**  
Note: Crosslisted with ARTH 343.

**PAS 311 African American Art History II: From the 1920's to Present -CD1 (3.0)**  
Note: Crosslisted with ARTH 344.

**PAS 312 African Americans in American Media - CD1 (3.0)**  
Note: Crosslisted with COMM 326.

**PAS 313 URBAN RITUAL VIOLENCE (3.0)**

**PAS 315 Theatre of the African World - CD1 (3.0)**  
Prerequisite: PAS 200.  
Note: Crosslisted with TA 365.

**PAS 317 African American Religion (3.0)**  
Note: Crosslisted with HUM 377.

**PAS 318 African American Cultural Traditions (3.0)**  
Note: Crosslisted with ANTH 318.

**PAS 319 African American History I - CD1 (3.0)**  
Note: Crosslisted with HIST 319.

**PAS 320 African American History II - CD1 (3.0)**  
Note: Crosslisted with HIST 320.

**PAS 322 The History of the Civil Rights Movement, 1900 to Present (3.0)**  
Note: Crosslisted with HIST 322.

**PAS 323 Directing the Black Experience (3.0)**  
Note: Crosslisted with TA 323.

**PAS 324 Politics, Political Violence and Black Resistance (3.0)**

**PAS 325 Politics of Black Male Identity in Post-Modern America (3.0)**

**PAS 326 Black Political Thought: Africa to Afrocentricity (3.0)**

**PAS 327 Politics of the Black Community - CD1 (3.0)**  
Note: Cross-listed with POLS 327.

**PAS 328 African American Islam (3.0)**

**PAS 329 Slave Trade and Slavery - CD1 (3.0)**

**PAS 330 Women in African American Religion (3.0)**  
Prerequisite: PAS 200 or consent of instructor.

**PAS 332 African American Women - WR (3.0)**  
Note: Cross-listed with WGST 348.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**PAS 334 Globalization, Culture and Third World Development (formerly African Development) (3.0)**  
Note: Crosslisted with SOC 394.

**PAS 335 Survey of African American Education - CD1 (3.0)**

**PAS 338 Race and Economics (3.0)**

**PAS 340 African American Literature - CD1 (3.0)**

**PAS 341 Black Film and Literature - CD1 (3.0)**

**PAS 342 Black Women Novelists - WR - CD1 (3.0)**  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Note: Crosslisted with WGST 342/ENGL 342.

**PAS 343 The Black Aesthetic on Stage - CD1 (3.0)**  
Note: Crosslisted with TA 343.

**PAS 346 African Languages in the Diaspora (3.0)**

**PAS 347 Language and Protest (3.0)**

**PAS 350 African American Women in Theatre - WRCD1 (3.0)**  
Note: Crosslisted with TAS 363 and WGST 380.

Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

**PAS 352 The Black Child (3.0)**

**PAS 353 Acting the Black Experience - CD1 (3.0)**  
Note: Crosslisted with TA 322.

**PAS 354 African-American Theatre Workshop (3.0)**  
Note: Cross-listed with TA 322.

**PAS 355 Cultural Diversity in Performance - WRCD1 (3.0)**  
Note: Crosslisted with TA 326.  
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

**PAS 356 History of the African American Theatre - WRCD1 (3.0)**  
Note: Crosslisted with TA 366.  
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

**PAS 360 African Diaspora in the Caribbean and Latin America (3.0)**

**PAS 361 Alternative/Traditional Healing and Medicine (3.0)**  
Note: Cross-listed with WGST 349.

**PAS 362 Civil Rights and the Law I (3.0)**

**PAS 363 Civil Rights and The Law II (3.0)**  
Note: Crosslisted with POLS 320.

**PAS 364 Racism and Sexism - WRCD1 (3.0)**  
Note: Cross-listed with WGST 347.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**PAS 366 Inequality and Health: The Black Experience (3.0)**

**PAS 367 Black Dramatic Literature - CD1 (3.0)**  
Note: Crosslisted with TA 367.

**PAS 368 Race, Culture, Identity (3.0)**  
Note: Cross-listed with ANTH 310.

**PAS 375 Public Health in Africa (3.0)**  
Prerequisite: PAS 200 or consent of instructor.

**PAS 378 The African American Experience - CD1 (3.0)**  
Note: Crosslisted with HUM 378.

**PAS 381 African Art: A Survey - CD1 (3.0)**  
Note: Crosslisted with ARTH 341.

**PAS 383 Cultures of Africa - CD1 (3.0)**  
Note: Cross-listed with ANTH 323.

**PAS 384 Disease, Ecology and Environmental Management in Africa -WR (3.0)**  
Note: Crosslisted with GEOG 362.  
Note: Approved for the Arts and Sciences upper level requirement in written communication (WR).

**PAS 385 Women in Africa: Historical and Literary Perspective (3.0)**  
Note: Cross-listed with WGST 346.  
Note: A prior course in PAS or WGST is recommended.

**PAS 386 Africa: Environment and Resources (3.0)**  
Note: Cross-listed with GEOG 314.

**PAS 390 Independent Study (3.0)**  
Prerequisite: Overall average of 3.0, and average of 3.5 in the department, and at least 18 semester hours credit in the department.

**PAS 392 Faces of Global Poverty - WR (3.0)**  
Note: Crosslisted with WGST 343/SOC 392.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**PAS 393 Ancient African History (3.0)**  
Note: Cross-listed with HIST 393.

**PAS 394 Formation of Modern Africa (3.0)**  
Note: Cross-listed with HIST 394.

**PAS 395 Contemporary Africa (3.0)**  
Note: Cross-listed with HIST 395.

**PAS 396 History of the Caribbean (3.0)**

**PAS 408 Research Methods in Pan African Studies -WR (3.0)**  
Prerequisites: 12 credit hours in PAS above the 200 level.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**PAS 500 Cooperative Internship in Pan African Studies (3.0-6.0)**  
Prerequisites: 12 hours PAS above introductory level.

**PAS 505 The Black Atlantic (3.0)**  
Prerequisite: 12 hours PAS credit or consent of instructor.

**PAS 506 Service Learning (3.0)**

**PAS 508 Independent Study (3.0)**  
Prerequisite: Overall gpa of 3.0, a gpa of 3.5 in the department and at least 18 semester hours credit in the department.

**PAS 510 Advanced Topics in Afro-American and African Studies (3.0)**

**PAS 512 Gender, Race, Work and Welfare (3.0)**  
Note: Crosslisted with WGST 512/SOC 512.  
Note: Credit may not be earned for both PAS 512/WGST 512 and PAS 612/WGST 612.

**PAS 514 History of Pan-African Social Thought (3.0)**  
Prerequisite: Consent of instructor.

**PAS 515 Race and Racism (3.0)**  
Prerequisite: 12 hours PAS credit or consent of instructor.

**PAS 516 African American Philosophy (3.0)**  
Prerequisites: PHIL 205 or 303 or 304.  
Note: Crosslisted with PHIL 516.

**PAS 520 The Black Family -WR (3.0)**

Prerequisite: Senior standing.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**PAS 528 History of African American Education (3.0)**

Prerequisite: Senior standing or consent of instructor.

**PAS 529 Teacher Institute on African-American Issues (3.0)**

Note: Crosslisted with EDEM/EDSD 590.

**PAS 531 Survey of African-American History and Culture for Teachers (3.0)**

Note: Crosslisted with EDEM/EDSD 592.

**PAS 532 Slave Trade and Slavery in the African World (3.0)**

Prerequisites: Senior or Graduate Standing.

**PAS 533 The History and Popular Culture of the African Diaspora (3.0)**

Prerequisites: Senior or Graduate Standing.

**PAS 535 History of African Americans in Kentucky (3.0)**

Prerequisite: Senior standing or faculty consent.

**PAS 540 Pedagogy of African Studies (3.0)**

**PAS 542 Black Women Voices - WR (3.0)**

Prerequisites: At least 6 (six) credit hours in SS or HU or consent from faculty.

Note: Crosslisted with WGST 543.  
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

Note: Credit may not be earned for both PAS 542/ WGST 543 and PAS 643/ WGST 643.

**PAS 546 African Languages in the Diaspora (3.0)**

Prerequisite: junior standing.

**PAS 547 Language, Race, Class and Gender (3.0)**

Prerequisite: junior standing.

**PAS 550 African Popular Culture (3.0)**

**PAS 551 Studies in African American Literature (3.0)**

Note: Crosslisted with ENGL 550.  
Prerequisites: English 102 or 105 and junior standing.

**PAS 557 African Philosophy (3.0)**

Prerequisites: PHIL 301 or 302 or 303 or 304.  
Note: Crosslisted with PHIL 557.

**PAS 560 Geography and Nutrition Among Africans and African Americans (3.0)**

Prerequisite: Consent of instructor.  
Note: Crosslisted with GEOG 520.

**PAS 562 Women's Health in Africa -WR (3.0)**

Prerequisite: Introduction to Pan African Studies (PAS 200) or faculty consent.

Note: Crosslisted with WGST 540.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Credit may not be earned for both PAS 562/WGST 540 and PAS 662/WGST 640.

**PAS 566 Race and Gender in Psychological Research (3.0)**

Note: Cross-listed with PSYC 566.

**PAS 567 Post-Colonial Voices: Writing "Experience" in African Literature - WR (3.0)**

Prerequisites: ENGL 102 or 105 or junior standing.  
Note: Crosslisted with ENGL 567.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**PAS 575 Genre Studies in African-American Literature (3.0)**

Note: Crosslisted with ENGL 575.  
Prerequisites: English 102 or 105 and junior standing.

**PAS 577 The Harlem Renaissance (3.0)**

Note: Crosslisted with ENGL 577.  
Prerequisites: English 102 or 105 and junior standing.

**PAS 581 Pan-African Art: Form and Content (3.0)**

Prerequisite: Consent of instructor.  
Note: Cross-listed with ARTH 544.

**PAS 586 Field Research (3.0-6.0)**

Prerequisite: 12 hours PAS credit or consent of instructor.

**PAS 590 Studies in African History (3.0)**

Note: Crosslisted with HIST 590.  
Prerequisites: Junior standing or faculty consent.

Philosophy

**PHIL 205 Introduction to Philosophy - H (3.0)**

Prerequisite: ENGL 101.

**PHIL 206 Introduction to Philosophy through Literature and Film - H (3.0)**

**PHIL 211 Critical Thinking - H (3.0)**

**PHIL 219 Sex and Values - HCD2 (3.0)**

**PHIL 222 Contemporary Ethical Problems - H (3.0)**

**PHIL 225 Business Ethics (3.0)**

**PHIL 300 Philosophies of Human Nature (3.0)**

**PHIL 301 Ancient Philosophy (3.0)**

**PHIL 302 Medieval Philosophy (3.0)**

**PHIL 303 Modern Philosophy (3.0)**

**PHIL 304 Recent Philosophy (3.0)**

**PHIL 305 Selected Topics (3.0)**

Prerequisite: Junior standing or faculty consent; other prerequisites determined by the instructor, depending on topic.

**PHIL 308 Social and Political Philosophy (3.0)**

Prerequisite: Junior standing or faculty consent.

**PHIL 311 Introduction to Logic (3.0)**

**PHIL 312 Introduction to Symbolic Logic (3.0)**

**PHIL 315 Asian Philosophy (3.0)**

**PHIL 317 The Nature of Violence (3.0)**

**PHIL 318 Philosophy and Feminism - CD2 (3.0)**

Note: Crosslisted with WGST 360.

**PHIL 320 Death (3.0)**

**PHIL 321 Ethics (3.0)**

**PHIL 323 Medical Ethics (3.0)**

**PHIL 328 Environmental Ethics (3.0)**

**PHIL 329 Social Institutions and Social Change (3.0)**

**PHIL 330 Introduction to Applied Philosophy (3.0)**

Prerequisites: One course in Philosophy or consent of instructor.

**PHIL 331 Philosophy of the Arts (3.0)**

**PHIL 341 Philosophy of Language - WR (3.0)**

Note: Cross-listed with LING 341.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**PHIL 345 Philosophy of Religion (3.0)**

**PHIL 350 Philosophy of Law (3.0)**

**PHIL 356 Metaphysics -WR (3.0)**

Prerequisite: Two courses in philosophy or faculty consent.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**PHIL 357 Personal Identity and the Self (3.0)**

**PHIL 385 Introduction to Existentialism (3.0)**

**PHIL 398 Senior Honors Seminar (3.0)**

Prerequisite: Junior standing; admission to department Honors Program.

**PHIL 399 Senior Honors Seminar - WR (3.0)**

Prerequisite: Junior standing; admission to department Honors Program.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**PHIL 499 Senior Honors Thesis -WR (3.0)**

Prerequisite: Senior standing; admission to department Honors Program.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**PHIL 501 Independent Study (1.0-3.0)**

**PHIL 503 Philosophical Writing and Research -WR (3.0)**

Prerequisite: Two courses in Philosophy.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**PHIL 504 Philosophy of History (3.0)**

Note: Cross-listed with HIST 504.

**PHIL 505 Selected Topics (3.0)**

Prerequisite: To be determined by instructor, in the light of the topic chosen for that semester.

**PHIL 512 Advanced Symbolic Logic (3.0)**

Prerequisite: PHIL 312 or consent of instructor.

**PHIL 516 African American Philosophy (3.0)**

Prerequisites: PHIL 205 or PHIL 303 or PHIL 304.

Note: Cross-listed with PAS 516.

**PHIL 518 Feminist Philosophical Literature (3.0)**

Prerequisites: Junior Standing.  
Note: Crosslisted with WGST 560.

**PHIL 521 Ethical Theory - WR (3.0)**

Prerequisite: One course in ethics or consent of instructor.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**PHIL 522 Virtue Ethics (3.0)**

Prerequisite: Two courses in Philosophy or consent of instructor.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**PHIL 523 Selected Topics in Applied Philosophy (3.0)**

Prerequisites: One course in Philosophy or consent of instructor.

**PHIL 524 Philosophies of Peace (3.0)**

Note: Credit may not be earned for both 524 and 624.

**PHIL 528 Philosophy of Mind (3.0)**

Prerequisite: Two semesters of philosophy or consent of instructor.

**PHIL 531 Aesthetics (3.0)**

Note: Credit may not be earned for both 531 and 631.

**PHIL 535 Political Philosophy (3.0)**

Prerequisite: Two courses in philosophy and/or political science.  
Note: Credit may not be earned for both 535 and 635.

**PHIL 536 Philosophy of Science (3.0)**

Prerequisite: Two courses in philosophy and two courses in biology, chemistry, physics, or geology or consent of instructor.

**PHIL 537 Philosophy of the Social Sciences (3.0)**

Prerequisite: One philosophy course and one upper-level course in political science, psychology, sociology, anthropology, economics, or geography; or consent of instructor.

**PHIL 540 Epistemology -WR (3.0)**

Prerequisites: Junior standing or consent of instructor.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Credit may not be earned for both 540 and 640.

**PHIL 553 Plato and Platonism (3.0)**

Prerequisite: Ancient Philosophy (PHIL 301) or consent of instructor.

**PHIL 554 Aristotle and Aristotelianism (3.0)**

Prerequisite: PHIL 301 or consent of instructor.

**PHIL 557 African Philosophy (3.0)**

Prerequisites: PHIL 304 or PHIL 302 or PHIL 303 or PHIL 301.

Note: Crosslisted with PAS 557.

**PHIL 572 Phenomenology (3.0)**

Prerequisite: PHIL 303 or consent of instructor.

**PHIL 573 Existentialism (3.0)**

Prerequisite: Two semesters of philosophy or consent of instructor.

**PHIL 575 Postmodernism (3.0)**

**PHIL 576 Philosophical Analysis (3.0)**

Prerequisite: PHIL 304.

## Physics

**PHYS 101 Philosophy of Nature I (3.0)**

**PHYS 107 Elementary Astronomy - S (3.0)**

**PHYS 108 Elementary Astronomy Laboratory - SL (1.0)**

Prerequisite: Concurrent or prior registration in PHYS 107.

**PHYS 111 Elements of Physics - B (4.0)**

Prerequisite: Appropriate Math placement.

Note: May not be taken by student who has completed 5 or more hours in physics at 200 level.

**PHYS 121 Great Ideas in Physics - S (3.0)**

Prerequisite: High school algebra.

**PHYS 122 Great Ideas in Physics Laboratory - SL (1.0)**

Prerequisite: Concurrent registration in PHYS 121.

**PHYS 220 Contemporary Issues in Meteorology - S (3.0)**

Note: Crosslisted with GEOS 220.

**PHYS 221 Fundamentals of Physics I - S (3.0)**

Prerequisite: Appropriate Math placement.

**PHYS 222 Fundamentals of Physics II - S (3.0)**

Prerequisite: PHYS 221.

**PHYS 223 Fundamentals of Physics Lab I - SL (1.0)**

Prerequisite: Completion of or concurrent registration in PHYS 221.

**PHYS 224 Fundamentals of Physics Lab II (1.0)**

Prerequisite: Completion of or concurrent registration in PHYS 222.

**PHYS 251 Acoustics (3.0)**

**PHYS 295 Introductory Laboratories I - SL (1.0)**

Prerequisite: Completion of or concurrent registration in PHYS 298.

**PHYS 296 Introductory Laboratories II (1.0)**

Prerequisite: Completion of or concurrent registration in PHYS 299.

**PHYS 298 Introductory Mechanics, Heat and Sound - S (4.0)**

Prerequisite: Concurrent registration in MATH 205.

Note: 3 lecture, one hour conference.

**PHYS 299 Introductory Electricity, Magnetism and Light - S (4.0)**

Prerequisite: Completion of or concurrent registration in MATH 206.

Note: 3 lecture, 1 hour conference.

**PHYS 300 Introductory Modern Physics (3.0)**

Prerequisite: PHYS 299; physics majors should take 301 concurrently.

**PHYS 301 Introductory Modern Physics Laboratory (1.0)**

Prerequisite: Completion of or concurrent registration in PHYS 300.

**PHYS 307 Introductory Astrophysics (3.0)**

Prerequisites: PHYS 221-222 or equivalent.

**PHYS 308 Observational Astronomy (1.0)**

Prerequisites: PHYS 221-222 or equivalent.

**PHYS 315 Energy and Environment (4.0)**

Prerequisite: PHYS 111 or 121, or equivalent.

Note: Not available to majors in one of the physical sciences.

**PHYS 351 Atomic and Nuclear Physics Laboratory (2.0)**

Prerequisite: PHYS 300.

**PHYS 355 Optics (3.0)**

Prerequisite: PHYS 299.

**PHYS 356 Optics Laboratory (2.0)**

Prerequisite: PHYS 299.

**PHYS 371 Special Topics (3.0)**

Prerequisite: Faculty consent.

**PHYS 375 Spacetime Physics (3.0)**

Prerequisite: Knowledge of algebra; faculty consent.

**PHYS 390 Introductory Computational Physics (3.0)**

Prerequisites: PHYS 300, MATH 301.

**PHYS 450 Introductory Mathematical Physics (3.0)**

Prerequisites: PHYS 300, MATH 301.

**PHYS 460 Mechanics (3.0)**

Prerequisite: PHYS 298 and MATH 206.

**PHYS 495 Communicating in Physics (1.0)**

Prerequisites: Senior standing.

**PHYS 498 Undergraduate Research (1.0-3.0)**

Prerequisites: PHYS 301, 351, 455 and approval of instructor.

**PHYS 499 Cooperative Internship in Physics (1.0-3.0)**

Prerequisite: PHYS 295, 296, 298-301 and 6 additional hours in physics; junior standing or above; approval of department.

**PHYS 501 Independent Study (1.0-3.0)**

**PHYS 502 Independent Study (1.0-3.0)**

**PHYS 520 Vibrations and Sound (3.0)**

Prerequisite: PHYS 298, PHYS 299 and MATH 206.

**PHYS 530 Thermodynamics (3.0)**

Prerequisite: PHYS 299 and MATH 301.

**PHYS 531 Introductory Statistical Physics (3.0)**

Prerequisite: PHYS 530.

**PHYS 541 Electromagnetic Fields (3.0)**

Prerequisite: PHYS 298, PHYS 299 and PHYS 300.

**PHYS 542 Electromagnetic Radiation (3.0)**

Prerequisites: PHYS 450, 451.

**PHYS 545 Advanced Optics (3.0)**

Prerequisite: PHYS 355 and PHYS 542; or consent of instructor.

**PHYS 546 Advanced Optics Lab (1.0)**

Prerequisites: Optics (PHYS 355) or equivalent.

**PHYS 555 Elementary Quantum Mechanics (3.0)**

Prerequisites: PHYS 450,460.

**PHYS 556 Quantum Theory of Matter (3.0)**

Prerequisite: PHYS 555.

**PHYS 561 Mathematical Physics I (3.0)**

Prerequisites: PHYS 450 or equivalent.

**PHYS 562 Mathematical Physics II (3.0)**

Refer to: PHYS 561

**PHYS 565 Computational Physics (3.0)**

Prerequisites: PHYS 390, and 555 or 561 taken concurrently; familiarity with a programming language.

**PHYS 570 Atomic and Molecular Physics (3.0)**

Prerequisite: PHYS 541 and 555; or consent of instructor.

**PHYS 575 Solid State Physics (3.0)**

Prerequisite: PHYS 541, 555, or consent of instructor.

**PHYS 580 Nuclear Physics (3.0)**

Prerequisite: PHYS 541 and 555; or consent of instructor.

**PHYS 585 Elementary Particle Physics (3.0)**

Prerequisite: PHYS 541 and 555, or consent of instructor.

**PHYS 589 General Relativity (3.0)**

Prerequisite: MATH 301 and PHYS 460.

**PHYS 590 Astrophysics (3.0)**

Prerequisites: PHYS 307, PHYS 455.

**PHYS 595 Special Topics (1.0-3.0)**

## Political Science

**POLS 111 Political Discourse - OC (3.0)**

Note: Approved for the General Education requirement in Oral Communication (SP).

**POLS 201 Fundamentals of American Government - SB (3.0)**

**POLS 202 Comparative Political Systems - SB (3.0)**

**POLS 203 Political Issues (3.0)**

**POLS 299 Honors Introduction to Political Science - SB (3.0)**

Prerequisite: Invitation by departmental Honors Committee.

## Pharmacology and Toxicology

**PHTX 395 Basic Pharmacology (3.0)**

Prerequisites: Permission of Instructor.

- POLS 302 Urban Political Economy (3.0)**
- POLS 304 Comparative Urban Politics (3.0)**
- POLS 305 Urban Politics (3.0)**
- POLS 306 State Government (3.0)**
- POLS 311 American Presidency (3.0)**
- POLS 312 American Constitutional Law - Powers of Government (3.0)**  
Prerequisite: POLS 201 or faculty consent.
- POLS 313 American Constitutional Law - Civil Liberties and Civil Rights (3.0)**  
Prerequisite: POLS 201 or faculty consent.
- POLS 314 Judicial Process (3.0)**  
Prerequisite: POLS 201 or faculty consent.
- POLS 315 Race, Law and Politics - CD1 (3.0)**
- POLS 316 American Legislative Process (3.0)**
- POLS 317 American Congress (3.0)**
- POLS 318 Religion and Politics (3.0)**  
Prerequisite: Junior standing or faculty consent.
- POLS 319 Media and Politics (3.0)**
- POLS 320 Civil Rights and the Law II (3.0)**  
Note: Crosslisted with PAS 363.
- POLS 321 Public Opinion (3.0)**
- POLS 322 American Political Parties and Elections (3.0)**
- POLS 324 Women in American Politics (3.0)**  
Note: Cross-listed with WGST 355.
- POLS 325 Public Administration (3.0)**
- POLS 326 Public Policy (3.0)**
- POLS 327 The Politics of the Black Community - CD1 (3.0)**  
Note: Cross-listed with PAS 327.
- POLS 330 International Relations (3.0)**
- POLS 331 International Organization -WR (3.0)**  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- POLS 332 International Law -WR (3.0)**  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- POLS 333 American Foreign Policy (3.0)**
- POLS 334 The Politics of Global Economic Relations (3.0)**
- POLS 335 Global Ecopolitics (3.0)**
- POLS 336 Politics of European Integration and Foreign Policy (3.0)**
- POLS 337 Law, Diplomacy and Power (3.0)**
- POLS 338 National and International Security: Issues and Policies (3.0)**
- POLS 339 Terrorism (3.0)**
- POLS 340 Politics and Government of Western Europe (3.0)**
- POLS 345 Russia and Eurasia -WR (3.0)**  
Prerequisite: POLS 202 or faculty consent.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- POLS 349 Comparative Political Culture - WR- CD2 (3.0)**  
Prerequisite: POLS 202 or faculty consent.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- POLS 350 African Government and Politics (3.0)**
- POLS 355 Introduction to Middle East Politics (3.0)**
- POLS 362 Comparative Political Economy (3.0)**
- POLS 363 Politics of Oil (3.0)**
- POLS 365 People's Republic of China -WR (3.0)**  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- POLS 366 Politics of East Asia (3.0)**
- POLS 367 Politics of Southeast Asia (3.0)**
- POLS 370 Comparative Political Development in Latin America (3.0)**
- POLS 371 Latin America in the World (3.0)**
- POLS 380 Elements of Political Theory -WR (3.0)**  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- POLS 381 Early Political Thought (3.0)**  
Note: Cross-listed with HIST 301.
- POLS 382 Modern Political Thought (3.0)**  
Note: Cross-listed with HIST 302.
- POLS 383 American Political Thought (3.0)**
- POLS 384 Democracy and Its Critics -WR (3.0)**  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- POLS 386 Political Theory and Utopia -WR (3.0)**  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- POLS 387 The Quest for Community (3.0)**
- POLS 388 Contemporary Political Theory (3.0)**
- POLS 390 Contemporary Political Research (3.0)**
- POLS 392 Policy Analysis and Techniques (3.0)**
- POLS 395 Political Leadership -WR (3.0)**  
Prerequisite: POLS 201 or 202 or POLS 299, and faculty consent.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- POLS 399 Topics in Political Science (3.0)**
- POLS 426 Environmental Policy (3.0)**
- POLS 430 Cooperative Internship in Political Science (1.0-3.0)**  
Prerequisite: See requirements, page 25.
- POLS 437 The United States and East Asia -WR (3.0)**  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- POLS 450 Topics in World Affairs (1.0)**  
Note: Students may enroll up to six times and count up to six credits toward major requirements.
- POLS 491 Independent Study (1.0-3.0)**  
Prerequisite: Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.
- POLS 492 Independent Study (1.0-3.0)**  
Refer to: POLS 491.
- POLS 495 Senior Seminar -WR (3.0)**  
Prerequisites: Completed 90 hours, political science majors only, and consent of instructor.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- POLS 499 Senior Honors Thesis - WR (3.0)**  
Prerequisite: Senior standing; admission to department Honors Program.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- POLS 501 Topics in American Politics (3.0)**
- POLS 502 Topics in Comparative Politics (3.0)**
- POLS 504 Topics in Political Theory -WR (3.0)**  
Prerequisite: Senior standing or faculty consent.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- POLS 505 Topics in Urban and Public Policy (3.0)**
- POLS 506 Topics in International Relations (3.0)**  
Prerequisite: Consent of instructor.
- POLS 510 Practicum (1.0-3.0)**  
Prerequisite: Consent of instructor.
- POLS 511 Practicum (1.0-3.0)**  
Refer to: POLS 510
- POLS 519 Urban Poverty and Policy -WR (3.0)**  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
- POLS 530 International Negotiation (3.0)**
- POLS 552 Politics through Film (2.0-3.0)**
- POLS 554 Democratization and Regime Change (3.0)**  
Prerequisite: POLS 202 or POLS 299, and consent of instructor.
- POLS 563 Women in Developing Countries -WR (3.0)**  
Note: Cross-listed with WGST 558.  
Note: Approved for the Arts and Sciences upper-level requirement in Written Communication (WR).
- POLS 568 Feminist Theory - WR (3.0)**  
Note: Cross-listed with WGST 556.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

## Portuguese

- PORT 101 Basic Portuguese I (3.0)**
- PORT 102 Basic Portuguese II (3.0)**  
Prerequisites: Portuguese 101 or permission of instructor.
- PORT 131 Accelerated Portuguese I (6.0)**
- PORT 132 Accelerated Portuguese II (6.0)**  
Prerequisites: Portuguese 131 or permission of instructor.
- PORT 201 Intermediate Portuguese I (3.0)**  
Prerequisites: Portuguese 102 or permission of instructor.
- PORT 202 Intermediate Portuguese II (3.0)**  
Prerequisites: Portuguese 201 or permission of instructor.  
Refer to: PORT 201.
- PORT 313 Special Topics in Luso-Brazilian Culture, Literature and Language (3.0)**  
Prerequisites: Portuguese 202 or 132 or permission of instructor.

## Psychology

### **PSYC 201 Introduction to Psychology - SB (3.0)**

Note: Students are required to participate in one or more standard experiments or to submit abstracts of published studies as part of Psychology 201.

### **PSYC 301 Quantitative Methods in Psychology (3.0)**

Prerequisite: PSYC 201.

Note: This course was formerly taught as PSYC 312.

Note: Students may not receive credit for both this course and any of the following: SOC 301, JA 326 (formerly JA 320), MGMT 201, MATH 109.

### **PSYC 302 Experimental Psychology (3.0)**

Prerequisites: PSYC 301.

Note: This course was formerly taught as PSYC 311.

### **PSYC 313 Test and Measurement (3.0)**

Prerequisite: PSYC 201 or consent of instructor.

Note: Spring only.

### **PSYC 321 Introduction to Psychology of Learning (3.0)**

Prerequisites: PSYC 201 or consent of instructor.

### **PSYC 322 Cognitive Processes (3.0)**

Prerequisite: PSYC 201 or consent of instructor.

### **PSYC 324 Language and Cognition (3.0)**

Prerequisite: Junior standing.

Note: Cross-listed with LING 324.

### **PSYC 325 Introduction to Behavior Management and Self-Management (3.0)**

Prerequisite: PSYC 201 or consent of instructor.

### **PSYC 326 Problem Solving and Inference (3.0)**

Prerequisites: PSYC 201 or consent of instructor.

### **PSYC 331 Sensation and Perception (3.0)**

Prerequisite: PSYC 201 or BIOL 240, or consent of instructor.

### **PSYC 342 Drugs and Behavior (3.0)**

Prerequisites: PSYC 201 or consent of instructor.

### **PSYC 344 Physiological Psychology (3.0)**

Prerequisites: PSYC 201, or BIOL 240, or consent of instructor.

### **PSYC 352 Applied Psychology (3.0)**

Prerequisites: PSYC 201 or consent of instructor.

### **PSYC 353 Industrial Psychology (3.0)**

Prerequisites: PSYC 201 or consent of instructor.

### **PSYC 357 Environmental Psychology (3.0)**

Prerequisites: PSYC 201 or consent of instructor.

### **PSYC 363 Life-Span Developmental Psychology (3.0)**

Prerequisite: PSYC 201 or consent of instructor.

### **PSYC 366 Multicultural Psychology -WR (3.0)**

Prerequisite: PSYC 201 or PAS 200.  
Note: Approved for the College of Arts and Sciences upper-level requirement in written communication (WR).

### **PSYC 372 Social Psychology (3.0)**

Prerequisites: PSYC 201 or consent of instructor.

### **PSYC 375 Personality (3.0)**

Prerequisites: PSYC 201 or consent of instructor.

### **PSYC 383 Forensic Psychology (3.0)**

Prerequisite: PSYC 201 or consent of instructor.

### **PSYC 385 Abnormal Psychology (3.0)**

Prerequisite: PSYC 201 or consent of instructor.

### **PSYC 400 Research Practicum in Psychology (1.0-3.0)**

Prerequisite: Acceptance into Psychology Honors Program.

### **PSYC 401 Research Psychology (1.0-3.0)**

Prerequisites: PSYC 201 and consent of instructor.

### **PSYC 402 Independent Study (1.0-3.0)**

Prerequisites: PSYC 201 and consent of instructor.

### **PSYC 403 Independent Study (1.0-3.0)**

Prerequisites: PSYC 201 and consent of instructor. Refer to: PSYC 402.

### **PSYC 404 Seminar in Psychology (2.0-4.0)**

Prerequisite: Consent of instructor.

### **PSYC 405 Honors Research (1.0-3.0)**

Prerequisite: Acceptance into Psychology Honors Program.

### **PSYC 406 Honors Research - WR (1.0-3.0)**

Prerequisite: Acceptance into Psychology Honors Program.  
Refer to: PSYC 405.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **PSYC 422 Introduction to Cognitive Neuroscience (3.0)**

Prerequisites: PSYC 322 and PSYC 344 or Permission of instructor.

### **PSYC 432 Vision and Art -WR (3.0)**

Prerequisites: PSYC 301 and 302 or permission of instructor.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **PSYC 443 Introduction to Neuroscience - WR (3.0)**

Prerequisites: PSYC 344 or BIOL 465 or consent of instructor.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **PSYC 466 Psychology of Women (3.0)**

Prerequisite: PSYC 201.

Note: Crosslisted with WGST 411.

### **PSYC 485 Stress and Trauma - WR (3.0)**

Prerequisites: PSYC 301-302; PSYC 344 or 385.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **PSYC 501 History of Psychology (3.0)**

Prerequisites: PSYC 201 or consent of instructor.

### **PSYC 516 Introductory Mathematical Psychology (3.0)**

Prerequisites: PSYC 201 or consent of instructor.

### **PSYC 524 Psycholinguistics (3.0)**

Prerequisite: PSYC 322 or LING 518.

Note: Cross-listed with LING 524.

### **PSYC 531 Sensation and Perception (3.0)**

Prerequisites: PSYC 201 or consent of instructor.

### **PSYC 543 Sensory Processes (3.0)**

Prerequisites: PSYC 201 or consent of instructor.

### **PSYC 544 Animal Behavior and Behavioral Ecology (3.0)**

Prerequisites: PSYC 201 or consent of instructor.

### **PSYC 556 Human Engineering (3.0)**

Prerequisites: PSYC 201 or consent of instructor.

### **PSYC 561 Evolutionary Psychology (3.0)**

Prerequisites: PSYC 201 or consent of instructor.

### **PSYC 566 Race and Gender in Psychological Research (3.0)**

Note: Cross-listed with PAS 566.

### **PSYC 571 Special Topics in Psychology (3.0-4.0)**

Prerequisites: Consent of instructor.

### **PSYC 581 Introduction to Behavioral Medicine (3.0)**

Prerequisites: PSYC 201 or consent of instructor.

### **PSYC 582 Introduction to Clinical Psychology (3.0)**

Prerequisites: Junior, Senior, or M.A. level student with 9 or more credit hours in Psych beyond 101.

## Russian

### **RUSS 121 Basic Russian I (4.0)**

**RUSS 122 Basic Russian II (4.0)**  
Refer to: RUSS 121.

### **RUSS 221 Intermediate Russian (4.0)**

Prerequisite: RUSS 121-122 or equivalent.

### **RUSS 313 Readings in Russian Literature, Themes and Great Issues (3.0)**

Prerequisite: RUSS 221 or equivalent.  
Note: May be repeated once for credit.

### **RUSS 321 Russian Reading, Conversation, and Composition I (3.0)**

Prerequisite: RUSS 221 or equivalent.  
Note: RUSS 321 is approved for the General Education requirement in oral communication (SP).

### **RUSS 322 Russian Reading, Conversation, and Composition II (3.0)**

Refer to: RUSS 321.

### **RUSS 371 Special Topics in Russian (3.0)**

Prerequisite: RUSS 221 or equivalent.

### **RUSS 372 Special Topics in Russian (3.0)**

Refer to: RUSS 371.

### **RUSS 411 Studies in Russian Language, Literature, and Culture I (3.0)**

Prerequisite: RUSS 322 or faculty consent.

### **RUSS 412 Studies in Russian Language, Literature, and Culture II (3.0)**

Refer to: RUSS 411.

### **RUSS 421 Advanced Russian Reading, Conversation and Composition I (3.0)**

Prerequisite: RUSS 322 or faculty consent.

### **RUSS 422 Advanced Russian Reading, Conversation and Composition II (3.0)**

Refer to: RUSS 421.

## Social Change

### **SCHG 300 Topics in Social Change-Humanities (3.0)**

#### **SCHG 301 Topics in Social Change - Humanities - WR (3.0)**

Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

#### **SCHG 302 Topics in Social Change - Social Sciences (3.0)**

#### **SCHG 303 Topics in Social Change - Social Sciences WR (3.0)**

Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

#### **SCHG 399 Lectures in Social Change (1.0-3.0)**

#### **SCHG 401 Social Change Community Internship (3.0)**

Prerequisites: Restricted to SCHG minors with at least 9 hours of SCHG coursework.

#### **SCHG 500 Advanced Topics in Social Change - Humanities (3.0)**

#### **SCHG 501 Advanced Topics in Social Change- Humanities WR (3.0)**

Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

#### **SCHG 502 Advanced Topics in Social Change - Social Sciences (3.0)**

#### **SCHG 503 Advanced Topics in Social Change-Social Sciences WR (3.0)**

Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

## Sociology

### **SOC 202 Social Problems - SB CD2 (3.0)**

### **SOC 203 Self and Society - SB (3.0)**

### **SOC 209 Principles and Concepts of Sociology - SB (3.0)**

### **SOC 210 Race in the United States - SB CD1 (3.0)**

### **SOC 301 Introduction to Social Statistics (3.0)**

Prerequisites: Completion of General Education Math Requirement.  
Note: Credit may not be earned for this course and MATH 109, PSYC 301, or MGMT 201.

### **SOC 303 Introduction to Research Methods-WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **SOC 305 Urban Sociology (3.0)**

### **SOC 306 Demography (3.0)**

### **SOC 307 Rural Sociology (3.0)**

### **SOC 313 Community Organization (3.0)**

### **SOC 314 Public Policy and Social Services (3.0)**

### **SOC 315 Environmental Sociology (3.0)**

### **SOC 320 Social Theory-WR (3.0)**

Prerequisite: SOC 209.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **SOC 323 Diversity and Inequality (3.0)**

### **SOC 325 Sociology of Human Sexuality (3.0)**

### **SOC 327 Sociology of Gender (3.0)**

Note: Crosslisted with WGST 313.

### **SOC 329 Sociology of Families (3.0)**

### **SOC 334 Sociology of Deviant Behavior (3.0)**

### **SOC 336 Criminology (3.0)**

### **SOC 338 Sociology of Murder (3.0)**

### **SOC 340 Mental Health and Illness (3.0)**

### **SOC 342 Medical Sociology (3.0)**

### **SOC 343 Sociology of Women's Health (3.0)**

Note: Crosslisted with WGST 312.

### **SOC 344 Sociology of Music in Contemporary America (3.0)**

### **SOC 346 Sociology of Religion (3.0)**

### **SOC 371 Alienation (3.0)**

### **SOC 374 Industrial Sociology -WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **SOC 392 Faces of Global Poverty - WR (3.0)**

Note: Crosslisted with PAS 392/WGST 343.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **SOC 394 Globalization, Culture and Third World Development (3.0)**

Note: Crosslisted with PAS 334.

### **SOC 400 Independent Study (1.0-6.0)**

Prerequisite: 18 hours in sociology, including 9 hours in the core; 3.5 GPA in sociology; 3.0 GPA overall.  
Note: A maximum of six credit hours will apply toward the sociology major.

### **SOC 401 Cooperative Internship in Sociology (3.0)**

Prerequisite: 90 credit hours completed, GPA of 2.75, and Sociology major.  
Note: B.A. candidates may apply for 3 hours credit; B.S. candidates may be eligible for an additional 3 hours credit.

### **SOC 406 Applied Sociology (3.0)**

Prerequisite: SOC 209, 301, and 303; or consent of undergraduate coordinator.

### **SOC 410 The Social Context of Aging (3.0)**

Prerequisites: SOC 209 and 303.

### **SOC 420 Sociology of Sport (3.0)**

Prerequisites: SOC 320 or consent of instructor.  
Note: Crosslisted with SPAD 391.

### **SOC 440 Genetics, Science, and Society -WR (3.0)**

Prerequisites: SOC 209, 320, or consent of instructor.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **SOC 441 Medical Demography (3.0)**

Prerequisites: SOC 209.

### **SOC 442 Sociology of Disabilities (3.0)**

Note: Crosslisted with WGST 415.  
Prerequisites: SOC 209.

### **SOC 450 Special Topics in Sociology (1.0-3.0)**

Prerequisites: 9 credit hours in core or consent of instructor.

### **SOC 452 Social Movements (3.0)**

Prerequisites: SOC 209, 320; or 9 hours at 300+ level in one social science; or consent of instructor.

### **SOC 453 Social Change (3.0)**

Prerequisites: SOC 209 and 320; or consent of instructor.

### **SOC 454 Classes and Stratification - WR (3.0)**

Prerequisite: SOC 209, 320, and 323; or 9 hours at 300+ level in one social science; or consent of instructor.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **SOC 455 Occupations and Organizations -WR (3.0)**

Prerequisite: SOC 209, 320, and 323 or consent instructor.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **SOC 456 Women and Work (3.0)**

Prerequisites: SOC 209, 320; or 9 hours at 300+ level in one social science; or consent of undergraduate instructor.

Note: Crosslisted with WGST 414.

### **SOC 462 Family Violence (3.0)**

Prerequisites: SOC 209; or 9 hours at 300+ level in one social science; or consent of instructor.

### **SOC 464 Race and Ethnicity -WR (3.0)**

Prerequisite: SOC 209, 320, and 323; or 9 hours at 300+ level in one social science; or consent of instructor.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **SOC 472 Sociology of Education - WR (3.0)**

Prerequisites: SOC 209, 303, and 323; or consent instructor.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **SOC 474 Comparative Sociology (3.0)**

Prerequisites: SOC 209, 323, or 9 hours at 300+ level in one social science; or consent of instructor.

### **SOC 480 Juvenile Delinquency (3.0)**

Prerequisite: SOC 209, 323, or 9 hours at 300+ level in one social science; or consent of instructor.

### **SOC 499 Senior Honors Thesis - WR (1.0)**

Prerequisite: Sociology major; senior standing; at least 18 hours of sociology completed at U of L; 3.5 GPA in sociology; 3.0 GPA overall.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

### **SOC 500 Special Topics (3.0)**

Prerequisite: Nine hours of core courses or consent of instructor.

### **SOC 503 Political Sociology (3.0)**

Prerequisites: SOC 320.

### **SOC 510 Computerized Data Analysis (3.0)**

Prerequisite: SOC 209, SOC 301, and SOC 303, or consent of instructor.

### **SOC 511 Marxist Social Theory (3.0)**

Prerequisites: SOC 320 or consent of instructor.

### **SOC 512 Gender, Race, Work, and Welfare (3.0)**

Note: Crosslisted with WGST 512/PAS 512.

Note: Credit may not be earned for both SOC 512 / WGST 512 / PAS 512 and SOC 612 / WGST 612 / PAS 612.

### **SOC 521 Social Transformation in Eastern and Central Europe (3.0)**

Prerequisite: Nine hours in sociology or consent of instructor.

### **SOC 530 Visual Sociology (3.0)**

Prerequisite: Permission of instructor required.

Note: Spring only.

### **SOC 550 Voluntarism (3.0)**

Prerequisites: SOC 209 and SOC 323; or consent of instructor or 9 hrs at 300+ level in one social science.

## Sport Administration

### **SPAD 360 Administration of Intramural Activities (3.0)**

### **SPAD 369 Directed Readings in Sport Administration (1.0-3.0)**

Prerequisite: Consent of instructor.

### **SPAD 381 Principles of Sport Administration (3.0)**

### **SPAD 382 Organizational Behavior in Sport (3.0)**

Prerequisites: Admission to the CEHD or CBPA or officially accepted as a sport administration minor.

### **SPAD 383 Sport Marketing (3.0)**

Prerequisites: Admission to CEHD or CPBA or officially accepted as a sport administration minor.

**SPAD 384 Current Trends and Issues in Sport Administration (3.0)**

**SPAD 389 Legal Aspects of Sport (3.0)**

Prerequisites: Admission to the CEHD or CPBA or officially accepted as a sport administration minor, and SPAD 381.

**SPAD 390 Sport Governance (3.0)**

Prerequisites: Admission to the CEHD or CPBA or officially accepted as a sports administration minor, and SPAD 381.

**SPAD 391 Sport in American Society- WR (3.0)**

Note: Crosslisted with SOC 420.

**SPAD 402 Internship in Sport Administration (3.0)**

Prerequisites: Students must complete a total of 12 hours in Sport Administration courses including SPAD 381, SPAD 382, and SPAD 383 before enrolling in this course.

**SPAD 403 Field Experience in Sport Administration (1.0-3.0)**

Prerequisite: Degree status; completion of 21 hours toward degree; completion of 6 hours of Sport Administration courses.

**SPAD 404 Financial Principles in Sport (3.0)**

Prerequisites: Admission to the CEHD or CPBA or officially accepted as a sport administration minor and SPAD 381.

**SPAD 422 Computer Applications in Sport Administration (3.0)**

Prerequisite: ISDP 150, MGMT 311 or equivalent.

**SPAD 470 History of the Sporting Goods Industry (3.0)**

**SPAD 472 The Sport Industry (3.0)**  
Prerequisite: Students majoring in Sport Administration must complete SPAD 381, SPAD 382, SPAD 383 before enrolling in this class.

**SPAD 482 Analysis in Sport Administration (3.0)**

Prerequisite: SPAD 381 or faculty consent.

**SPAD 505 Sport Facility Management (3.0)**

Prerequisites: Admission to the CEHD or CPBA.

**SPAD 509 History of American Sport (3.0)**

Prerequisite: American History I and II (HIST 211 or 212) or consent of instructor.

**SPAD 521 Independent Study in Sport Administration (1.0-3.0)**

Prerequisite: Consent of instructor.

**SPAD 525 Sport Event Planning and Management (3.0)**

Prerequisites: Admission to the CEHD or CPBA or officially accepted as a sport administration minor, and SPAD 381.

**SPAD 529 The American Woman in Sport (3.0)**

Note: Crosslisted with WGST 538.

**SPAD 530 Sport Promotion & Publicity (3.0)**

Prerequisites: Admission to the College of Education or College of Business or officially accepted as a Sport Administration major.

**SPAD 561 Special Topics in Sport Administration (1.0-3.0)**

## Spanish

*At least two courses at the 500 or 600 level will be offered for graduate students every semester. Course offerings are contingent upon sufficient enrollments. Regularly scheduled 500-level courses may be replaced by seminars, or studies of particular authors or specific topics.*

**SPAN 000 Spanish Study Abroad (1.0-30.0)**

Prerequisite: Participation in the University of Louisville Language Study Abroad Program and/or programs conducted by the International Center.

**SPAN 121 Basic Spanish I (4.0)**

Note: Not counted toward major.

**SPAN 122 Basic Spanish II (4.0)**

Prerequisites: Spanish 121 or equivalent.

Note: Not counted toward major.

**SPAN 123 Basic Spanish III (4.0)**

Prerequisite: SPAN 122 or equivalent.

Note: Not counted toward major.

**SPAN 141 Intensive Spanish I (6.0)**

Note: Not counted toward major.

**SPAN 142 Intensive Spanish II (6.0)**

Prerequisite: SPAN 141 or equivalent.

Note: Not counted toward major.

**SPAN 201 Continuing Spanish I (3.0)**

Prerequisites: SPAN 123 or equivalent.

Note: Formerly SPAN 301.

**SPAN 202 Continuing Spanish II (3.0)**

Prerequisite: SPAN 201.

Note: Formerly SPAN 302.

**SPAN 313 Special Topics in Spanish Literature, Language, and Culture (3.0)**

Prerequisites: SPAN 321 and 322.

Note: May be repeated once for credit.

**SPAN 321 Spanish Conversation (3.0)**

Prerequisites: SPAN 202 or equivalent.

**SPAN 322 Spanish Composition (3.0)**

Prerequisite: SPAN 302 or equivalent.

**SPAN 323 Spanish for the Workplace (3.0)**

Prerequisite: SPAN 202 or permission of instructor.

**SPAN 325 Practicum in Spanish Theatre (1.0-3.0)**

Prerequisite: SPAN 202 or equivalent.

**SPAN 355 Reading Hispanic Texts (3.0)**

Prerequisites: SPAN 202 or equivalent.

**SPAN 401 Foundations of Spanish Civilization (3.0)**

Prerequisite: SPAN 322.

**SPAN 402 Cultural and Literary Perspectives on Modern Spain (3.0)**

Prerequisites: SPAN 322.

**SPAN 403 Foundations of Latin American Nations and Identities (3.0)**

Prerequisite: SPAN 322.

**SPAN 404 Cultural and Literary Perspectives on Modern Latin America (3.0)**

Prerequisite: SPAN 322.

**SPAN 440 Cooperative Internship (1.0-3.0)**

Note: May be used to fulfill minimum requirements for the major only if approved by the department chair.

**SPAN 500 Spanish Study Abroad (1.0-15.0)**

Prerequisite: Membership in a University of Louisville Language Study Abroad Program or a program approved by the department.

**SPAN 511 Studies in Spanish Medieval Literature (3.0)**

Prerequisites: SPAN 355,401, or 402, or consent of instructor.

**SPAN 513 Studies in Spanish Golden Age Literature (3.0)**

Prerequisites: SPAN 355,401, or 402, or consent of instructor.

**SPAN 516 Literary Influences in Nineteenth-Century Spanish (3.0)**

Prerequisites: SPAN 355, 401, or 402, or consent of instructor.

**SPAN 518 Studies in Twentieth-Century Literature of Spain (3.0)**

Prerequisites: SPAN 355,401, or 402, or consent of instructor.

**SPAN 522 Spanish Phonetics and Diction (3.0)**

Prerequisite: 6 hours of Spanish at 300+ level or consent of instructor.

**SPAN 523 Advanced Communication Skills- WR (3.0)**

Prerequisites: SPAN 321 & SPAN 322.  
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

**SPAN 524 Introduction to Hispanic Linguistics (3.0)**

Prerequisites: SPAN 321 & SPAN 322.

**SPAN 525 Spanish for the Classroom Teacher (3.0)**

Prerequisites: SPAN 524 or consent of instructor.

**SPAN 527 Latin American Literature: Colonial Period through 19th Century (3.0)**

Prerequisites: SPAN 355, 403, or 404, or consent of instructor.

**SPAN 528 Contemporary Spanish-American Theatre (3.0)**

Prerequisites: SPAN 355, 403, or 404, or consent of instructor.

**SPAN 529 Spanish-American Poetry (3.0)**

Prerequisites: SPAN 355,403, or 404, or consent of instructor.

**SPAN 530 Spanish-American Narrative (3.0)**

Prerequisites: SPAN 355,403 or 404 or consent of instructor.

**SPAN 554 Hispanic Culture through Film and Media (3.0)**

Prerequisites: SPAN 401,402, 403, or 404; or consent of instructor.

**SPAN 561 Independent Study (1.0-3.0)**

Prerequisite: Consent of department.

**SPAN 590 Senior Capstone in Spanish (3.0)**

Prerequisites: 9 hours at the 400-level in Spanish.

**SPAN 599 Special Topics (3.0)**

Prerequisite: Consent of instructor.

## Theatre Arts

**TA 207 Enjoyment of Theatre - A (3.0)**

**TA 240 Stagecraft I (3.0)**  
Note: Fall only.

**TA 241 Stagecraft II (3.0)**  
Note: Spring only.

**TA 312 Speaking of Women (3.0)**  
Note: Cross-listed with WGST 381.

**TA 320 Acting I (3.0)**

Prerequisite: Permission of instructor required.

**TA 321 Acting II (3.0)**

Prerequisites: TA 320 or TA 322 or equivalent, and permission of instructor.  
Note: Spring only.

**TA 322 Acting The Black Experience - CD1 (3.0)**

Note: Crosslisted with PAS 353.

**TA 323 Directing the Black Experience (3.0)**

Note: Crosslisted with PAS 323.

**TA 324 Acting for Nonmajors (3.0)**

**TA 325 Special Studies in Acting (1.0-3.0)**

Prerequisite: TA 320 or equivalent, and departmental consent.

**TA 326 Cultural Diversity in Performance - WRCD1 (3.0)**

Note: Crosslisted with PAS 355.

Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

**TA 330 Directing (3.0)**

Prerequisites: TA 321 or equivalent, and permission of instructor.  
Note: Fall only.



**TA 340 Introduction to Scene Design (3.0)**

Prerequisites: TA 240 or faculty consent.

Note: Fall only.

**TA 343 The Black Aesthetic on Stage - CD1 (3.0)**

Note: Crosslisted with PAS 343.

**TA 345 Costume History (3.0)**

**TA 346 Stage Make-up (3.0)**  
Note: Alternate fall semesters.

**TA 349 Introduction to Stage Lighting (3.0)**

Prerequisite: TA 241 or faculty consent.

**TA 350 Theatre Performance and Production (0.5)**

Prerequisite: Faculty consent.

**TA 352 Special Topics in Theatre (1.0-3.0)**

**TA 360 Theatre History and Literature I -WR (3.0)**

Prerequisite: ENGL 102 or equivalent.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**TA 361 Theatre History and Literature II -WR (3.0)**

Prerequisites: ENGL 102 or equivalent.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**TA 363 African American Women in Theatre - WRCD1 (3.0)**

Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).  
Note: Crosslisted with PAS 350 and WGST 380.

**TA 365 Theatre of the African World - CD1 (3.0)**

Prerequisite: PAS 200.  
Note: Crosslisted with PAS 315.

**TA 366 History of African-American Theatre - WRCD1 (3.0)**

Note: Crosslisted with PAS 356.  
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

**TA 367 Black Dramatic Literature - CD1 (3.0)**

Note: Crosslisted with PAS 367.

**TA 371 Script Analysis (3.0)**

Prerequisite: TA 320 or equivalent, or department consent.

**TA 380 Creative Dramatics (3.0)**

**TA 390 Playwriting Workshop (3.0)**

Prerequisite: ENGL 202 or faculty consent.  
Note: Cross-listed with ENGL 305.

**TA 420 Acting III (3.0)**

Prerequisites: TA 321 or equivalent, and permission of instructor.  
Note: Fall only.

**TA 421 Acting IV (3.0)**

Prerequisites: TA 420 or equivalent, and permission of instructor.

**TA 450 Theatre Apprenticeship (6.0)**  
Prerequisite: Approval of department and selection by a theatre company.

**TA 451 Cooperative Internship in Theatre Arts (1.0-3.0)**

Prerequisite: See requirements, page 25.

**TA 455 Independent Study (1.0-3.0)**

Prerequisite: Minimum grade point average of 3.0 overall; minimum grade point average of 3.5 in the department, and at least 18 semester hours credit in the department.

**TA 520 Acting Workshop (3.0)**

Prerequisite: Departmental consent.

**TA 521 Stage Movement I (3.0)**

Prerequisite: Consent of instructor.

**TA 522 Stage Movement II (3.0)**

Refer to: TA 521.

**TA 523 Stage Speech I (3.0)**

Prerequisite: Consent of instructor.

**TA 524 Stage Speech II (3.0)**

Refer to: TA 523.

**TA 525 Advanced Studies in Acting (1.0-3.0)**

Prerequisite: Consent of instructor.

**TA 529 Actors Theatre of Louisville Workshop (3.0)**

Prerequisite: Senior standing or faculty consent.

**TA 530 Directing Workshop (3.0)**

Prerequisite: permission of instructor.

**TA 531 Advanced Directing (3.0)**

Prerequisite: Consent of instructor.

**TA 533 Stage Management (3.0)**

Prerequisite: Consent of instructor.

**TA 540 A-E Problems in Technical Theatre (3.0)**

Prerequisite: TA 241.  
A. Welding B. Sound Design  
C. Technical Direction D. Special Topics.

**TA 541 Topics-Scene Design (3.0)**

Prerequisite: TA 340.

A. Scene Design B. Advanced Scene Design C. Design for the Camera  
D. Design for Lyric Theatre E. Special Topics

**TA 543 Scenographic Techniques (3.0)**

Prerequisite: TA 340.

A. CAD for Stage Design B. Sketching and Rendering - Scenery C. Scene Painting D. Special Topics

**TA 545 Topics - Costume Design (3.0)**

Prerequisites: TA 345.

A. Costume Design B. Costume History C. Costume Construction  
D. Sewing Techniques E. Sketching and Rendering - Costumes F. Special Topics

**TA 546 Advanced Stage Makeup (3.0)**

Prerequisite: Permission of instructor.

**TA 549 Topics - Lighting Design (3.0)**

Prerequisites: TA 349.

A. Lighting Design B. Advanced Lighting Design C. Special Topics

**TA 550 Theatre Practicum (1.0-3.0)**

Prerequisite: 3 credits in TA 350 or graduate standing.  
Note: A maximum of 6 credits in 350 and 550 may be counted toward the B.S. degree.

**TA 555 Special Topics in Theatre (1.0-3.0)**

Prerequisite: Consent of instructor.

**TA 560 Directed Study in Theatre History (3.0)**

Prerequisite: Consent of instructor.

**TA 567 Asian Theatre (3.0)**

Prerequisites: Graduate standing or permission of instructor.  
Note: Alternate spring semesters.

**TA 571 Playscript Interpretation - WR (3.0)**

Prerequisite: Consent of instructor.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**TA 581 Drama Techniques for High School Teachers (3.0)**

**Women's and Gender Studies**

**WGST 199 Writing in Women's and Gender Studies - WC (3.0)**

Prerequisites: English 101.

Note: Credit may not be earned for this course and ENGL 102.

**WGST 201 Women in American Culture - HCD2 (3.0)**

**WGST 203 Gender Issues in Public Dialogue - OC (3.0)**

**WGST 300 Sex, Gender, and Culture (3.0)**

Note: Cross-listed with ANTH 309.

**WGST 303 Humanities Perspective on Sex Roles - CD2 (3.0)**

Prerequisites: Sophomore Standing.  
Note: Crosslisted with HUM 331.

**WGST 312 Sociology of Women's Health (3.0)**

Note: Crosslisted with SOC 343.

**WGST 313 Sociology of Gender (3.0)**

Note: Crosslisted with SOC 327.

**WGST 325 Women in Literature (3.0)**

Prerequisite: ENGL 102 or 105.  
Note: Cross-listed with ENGL 373.

**WGST 326 Gender and Children's Literature (3.0)**

Note: Crosslisted with ENGL 374.

**WGST 331 The History of Women, 1700 to the Present - CD2 (3.0)**

Note: Credit may not be received for this course and HIST 324.

**WGST 332 History of Childhood in America - WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Note: Credit may not be earned for this course and HIST 326.

**WGST 333 Women in Latin American History - CD1 (3.0)**

Prerequisites: History 331 or 332 recommended.

Note: Credit may not be earned for this course and HIST 333.

**WGST 340 Women and Religion (3.0)**

Prerequisite: Sophomore standing.  
Note: Cross-listed with HUM 340.

**WGST 342 Black Women Novelists - WR - CD1 (3.0)**

Note: Crosslisted with PAS 342/ENGL 342.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**WGST 343 Faces of Global Poverty - WR (3.0)**

Note: Crosslisted with PAS 392 / SOC 392.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**WGST 345 Women in Hinduism and Buddhism - CD1 (3.0)**

Prerequisite: ENG 102/105 and Sophomore standing.

Note: Cross-listed with HUM 345.

**WGST 346 Women in Africa: Historical and Literary Perspectives (3.0)**

Note: Cross-list with PAS 385.

**WGST 347 Racism and Sexism - WRCD1 (3.0)**

Note: Crosslisted with PAS 364.

Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

**WGST 348 African-American Women - WR (3.0)**

Note: Cross-listed with PAS 332.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**WGST 349 Alternative/Traditional Healing and Medicine (3.0)**

Note: Cross-listed with PAS 361.

**WGST 355 Women in American Politics (3.0)**

Note: Cross-listed with POLS 324.

**WGST 360 Philosophy and Feminism - CD2 (3.0)**

Note: Crosslisted with PHIL 318.

**WGST 373 Women Writers and Filmmakers-WR (3.0)**

Note: Crosslisted with ML 365.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**WGST 380 African-American Women in Theatre - WRCD1 (3.0)**

Note: Crosslisted with PAS 350 and TA 363.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**WGST 381 Speaking of Women (3.0)**

Note: Cross-listed with TA 312.

**WGST 390 Topics in Women's and Gender Studies - Humanities (3.0)**

**WGST 391 Topics in Women's and Gender Studies - Social Sciences (3.0)**

**WGST 392 Topics in Women's and Gender Studies - Social Sciences - WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**WGST 393 Topics in Women's and Gender Studies- Humanities - WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**WGST 394 Lectures in Women's and Gender Studies (1.0-3.0)**

**WGST 395 Women, Media and Culture - CD2 (3.0)**

**WGST 396 Senior Honors Seminar- Humanities (3.0)**

**WGST 397 Senior Honors Seminar- Humanities - WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication - (WR).

**WGST 398 Senior Honors Seminar- Social Sciences (3.0)**

Prerequisite: Senior standing; admission to department Honors Program.

**WGST 399 Senior Honors Seminar- Social Sciences - WR (3.0)**

Prerequisite: Senior standing; admission to department Honors Program.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**WGST 401 Community Internship (3.0)**

Prerequisites: 12 hours of WGST courses; for Women's and Gender Studies majors only.

**WGST 411 Psychology of Women (3.0)**

Prerequisite: PSYC 201.  
Note: Cross-listed with PSYC 466.

**WGST 414 Women and Work (3.0)**

Prerequisites: SOC 209 and 320; or 9 hours at 300+ level in one social science; or consent of instructor.  
Note: Crosslisted with SOC 456.

**WGST 415 Sociology of Disabilities (3.0)**

Prerequisites: SOC 209.  
Note: Crosslisted with SOC 442.

**WGST 498 Senior Honors Thesis- Social Sciences-WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
Prerequisites: Restricted to WGST majors and minors who have been admitted to departmental or college honors. Permission of instructor required.

**WGST 499 Senior Honors Thesis - Humanities-WR (3.0)**

Prerequisites: Restricted to WGST majors and minors who have been admitted to departmental or college honors. Permission of instructor required.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**WGST 500 Senior Seminar in Women's and Gender Studies- Social Sciences WR (3.0)**

Prerequisites: Junior standing.  
Note: Approved for the General Education requirement in written communication (WR).

**WGST 501 Senior Seminar in Women's and Gender Studies - Humanities WR (3.0)**

Prerequisites: Junior standing.  
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**WGST 512 Gender, Race, Work, and Welfare (3.0)**

Note: Crosslisted with PAS 512 and SOC 512.

Note: Credit may not be earned for both WMST 512/PAS 512/SOC 512 and WMST 612/ PAS 612/ SOC 612.

**WGST 520 Women's Personal Narratives (3.0)**

Note: Crosslisted with ENGL 554.

**WGST 522 The Body in Popular Media - WR (3.0)**

Prerequisites: One WGST course or permission of instructor.

Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

Note: Credit may not be earned for both WGST 522 (does not carry graduate credit) and WGST 622.

**WGST 530 Feminism in Western Civilization, 1790-1920 - WR (3.0)**

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Credit may not be received for WMST 530 or HIST 588 and WMST 630.

Note: Junior standing recommended.

**WGST 531 Women in the Twentieth Century in Europe and the U.S. - WR (3.0)**

Prerequisites: Junior Standing recommended.

Note: Crosslisted with HIST 583.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Credit may not be earned for WMST 531/HIST 583 and WMST 631.

**WGST 532 History of American Sexualities -WR (3.0)**

Prerequisites: Junior Standing.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Credit may not be earned for this course and HIST 589.

**WGST 533 Women in 19th -Century America - WR (3.0)**

Prerequisites: Completion of English 102, 105, or the equivalent.

Note: Crosslisted with HIST 506.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Credit may not be earned for both HIST 506/WMST 533 and WMST 633.

**WGST 535 Women's Health Issues - CD2 (3.0)**

Note: Cross-listed with HPES 564.

**WGST 538 American Woman in Sports (3.0)**

Note: Cross-listed with SPAD 529.

**WGST 540 Women's Health in Africa - WR (3.0)**

Prerequisites: Senior Standing.  
Note: Crosslisted with PAS 562.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Credit may not be earned for both WMST 540/PAS 562 and WMST 640/PAS 662.

**WGST 543 Black Women Voices - WR (3.0)**

Prerequisites: At least 6 credit hours in SS or HU or consent of faculty.  
Note: Crosslisted with PAS 542.

Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).

Note: Credit may not be earned for both WMST 543/PAS 542 and WMST 643/PAS 643.

**WGST 556 Feminist Theory - WR (3.0)**

Note: Cross-listed with POLS 568.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Note: Credit may not be earned for both WMST 556/POLS 568 and WMST 656/POLS 668.

**WGST 558 Women in Developing Countries -WR (3.0)**

Note: Cross-listed with POLS 563.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

**WGST 560 Feminist Philosophical Literature (3.0)**

Prerequisites: Junior Standing.  
Note: Crosslisted with PHIL 518.

**WGST 571 Francophone Women Writers-WR (3.0)**

Prerequisite: Faculty consent.  
Note: Crosslisted with ML 506.

Note: Approved for the General Education requirement in written communication (WR).

**WGST 589 Independent Study: Women's and Gender Studies - Humanities (1.0-3.0)**

Prerequisites: Restricted to students who have a 3.0 cumulative GPA and have completed a minimum of 12 hours in WGST courses. Permission of instructor.

**WGST 590 Independent Study: Women's and Gender Studies- Social Sciences (1.0-3.0)**

Prerequisites: Restricted to students who have a 3.0 cumulative GPA and have completed a minimum of 12 hours in WGST courses. Permission of instructor.

**WGST 591 Topics in Women's and Gender Studies- Social Sciences (3.0)**

**WGST 592 Topics in Women's and Gender Studies- Social Sciences- WR (3.0)**

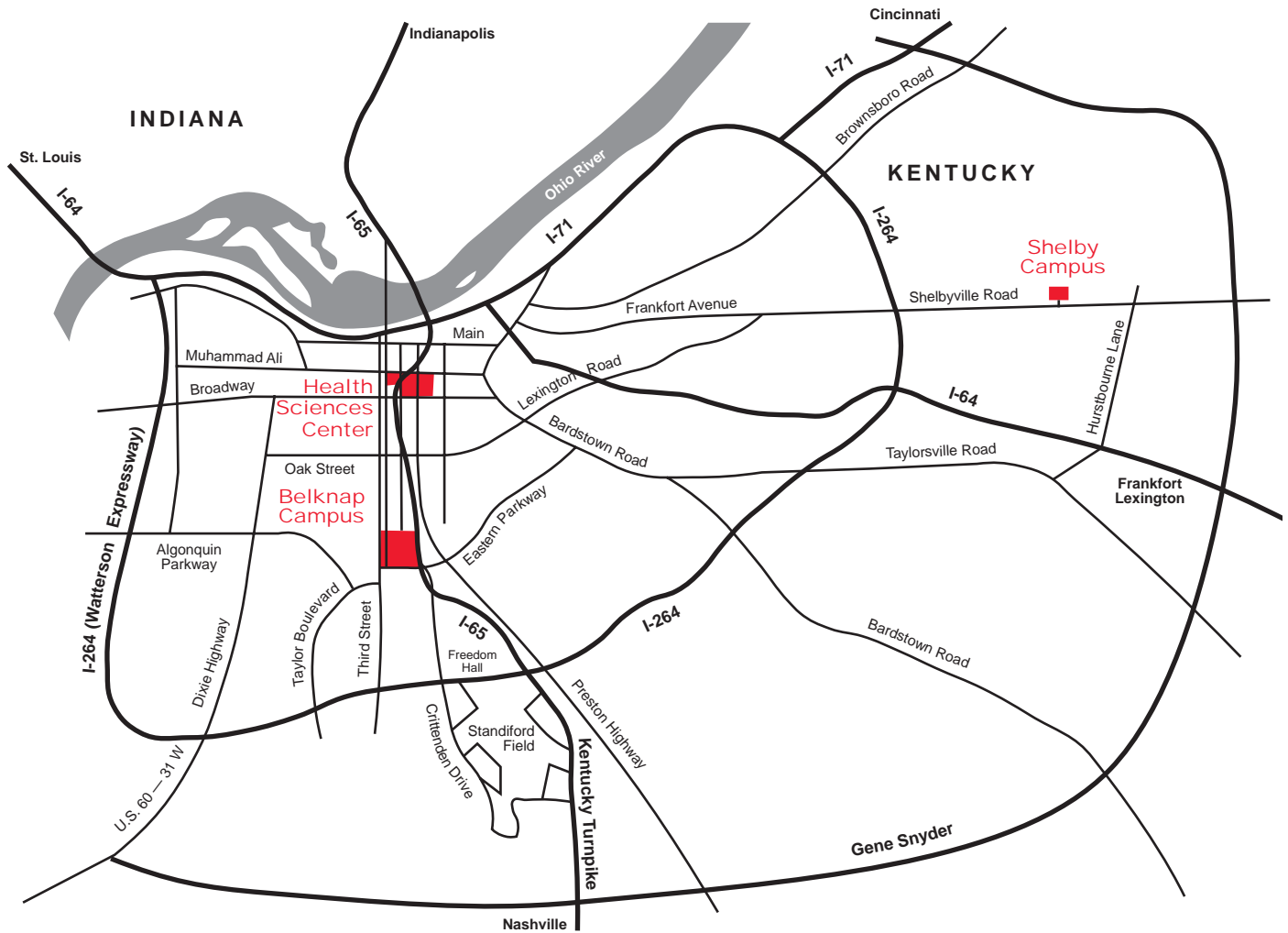
Note: Approved for the General Education requirement in written communication (WR).

**WGST 593 Topics in Women's and Gender Studies - Humanities (3.0)**

**WGST 594 Topics in Women's and Gender Studies - Humanities WR (3.0)**

Note: Approved for the General Education requirement in written communication (WR).

# U of L Campuses



Louisville and Jefferson County

U of L Campuses

# Belknap Campus



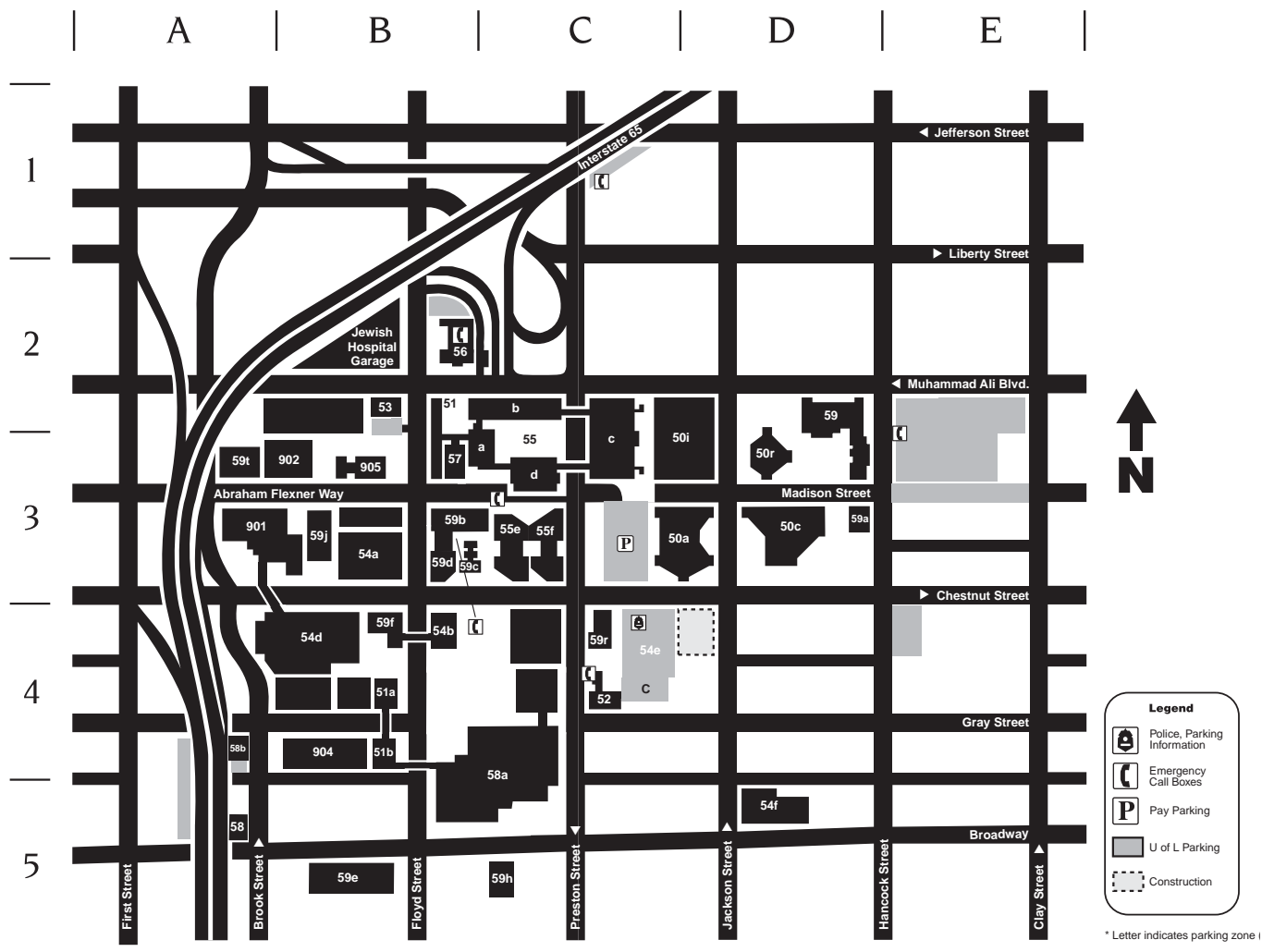
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**Note:** Letters/numbers represent grid location. Numbers in parentheses represent official building

- C5 Administrative Annex (15)
- F1 Archaeological Survey/Transportation Center (100)
- D3 Baptist Campus Center (85)
- F5 Bass-Rudd Tennis Center (111)
- F1 Belknap Operations Center (98A)
- D4 Belknap Research Building (under construction)
- D3 Bingham Humanities Building (17)
- C4 Brandeis School of Law (19)
- C5 Brigman Hall (2)
- C4 Brodschi Hall (41)
- C2 Business and Public Administration, College of (90)
- F3 Cardinal Park (76A)
- B3 Center Hall (49B)
- E2 Central Receiving (106A)
- D5 Chemistry Building (36)
- D4 Crawford Gymnasium (26)
- D3 Davidson Hall (87)
- E5 Development & University Relations Building (79)
- C5 Dougherty Hall (29)
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- E3 Floyd Street Parking Structure (75)
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  - \*\* Football Offices/Complex (Papa John's Cardinal Stadium) (108)
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- B3 Fraternity/Sorority Houses (49A/C)
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\*\*Not indicated on map

# Health Sciences Center



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**Note:** Letters/numbers represent grid location. Numbers in parentheses represent official building numbers.

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# Shelby Campus



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