Biology (BIOL)

Subject-area course lists indicate courses currently active for offering at the University of Louisville. Not all courses are scheduled in any given academic term. For class offerings in a specific semester, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

500-level courses generally are included in both the undergraduate- and graduate-level course listings; however, specific course/section offerings may vary between semesters. Students are responsible for ensuring that they enroll in courses that are applicable to their particular academic programs.

Course Fees

Some courses may carry fees beyond the standard tuition costs to cover additional support or materials. Program-, subject- and course-specific fee information can be found on the Office of the Bursar website (http://louisville.edu/bursar/tuitionfee).

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Units</th>
<th>Term Typically Offered</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 102</td>
<td>Biology: Current Issues and Applications - S</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Selected topics from the biological sciences that focus on high-profile issues in biological sciences and their socio-scientific applications.</td>
<td>Completion of BIOL 240, or equivalent; and CHEM 105 or CHEM 201 (CHEM 101 accepted for Dental Hygiene students only).</td>
<td>Does not count toward biology major or minor.</td>
</tr>
<tr>
<td>BIOL 104</td>
<td>Laboratory for Biology: Current Issues and Applications - SL</td>
<td>1</td>
<td>Fall, Spring, Summer</td>
<td>Hands-on laboratory experience for students not majoring in the sciences. Labs are designed to develop skills in scientific methodology, observation and critical thinking.</td>
<td>Completion of or concurrent enrollment in BIOL 240.</td>
<td>Does not count toward biology major or minor.</td>
</tr>
<tr>
<td>BIOL 203</td>
<td>Scientific Information Literacy and Communication - OC</td>
<td>3</td>
<td>Spring Only</td>
<td>To improve oral communication skills that transfer across disciplines; to fulfill a general education oral communication requirement with a course that has science-intensive content; to improve student skills in critically assessing scientific claims; and to introduce students early in their programs to work of potential research mentors.</td>
<td></td>
<td>Does not count towards biology major or minor.</td>
</tr>
</tbody>
</table>

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

BIOL 240. Unity of Life - S 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ACT score of 24 or better on the sciences section; SAT math score of 540 or higher; completion with a passing grade or enrollment in BIOL 102 (or department approved equivalent) in prior semester; Biology placement test score of 10 or better; or completion with a passing grade or enrollment in BIOL 242 in prior semester.
Description: Basic biological principles; macromolecules, biology of cells, metabolism, genetics, and evolution.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

BIOL 242. Diversity of Life - S 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): ACT score of 24 or better on the sciences section; SAT math score of 540 or higher; completion with a passing grade or enrollment in BIOL 102 (or department approved equivalent) in prior semester; Biology placement test score of 10 or better; or completion with a passing grade or enrollment in BIOL 240 in prior semester.
Description: Taxonomy and classification, form and function of monerans, fungi, protists, plants and animals; survey of ecology.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

BIOL 244. Principles of Biology Laboratory - SL 2 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Successful completion of BIOL 240 and completion of, or concurrent enrollment in BIOL 242; or completion of BIOL 242 and completion of, or concurrent enrollment in, BIOL 240.
Description: A comprehensive laboratory in Biology involving experiments at the cellular/genetics level through organismic diversity. An emphasis is placed on critical analysis of scientific data through application of the scientific method.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

BIOL 257. Introduction to Microbiology - S 3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): BIOL 102 or BIOL 240, or equivalents; and CHEM 105 or CHEM 201 (CHEM 101 accepted for Dental Hygiene students only).
Description: Survey of microorganisms including structure-function relationships, growth and its control, metabolism and genetics. Diversity will be discussed with emphasis on infectious diseases, epidemiology, and basic immunology.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BIOL 258. Introduction to Microbiology Laboratory - SL  1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Completion of or concurrent enrollment in BIOL 257.
Description: The introductory microbiology laboratory teaches students basic microbiological techniques that are necessary to study and safely handle microorganisms and their viruses. Because this course relies on participation, attendance will be included in the evaluation.
Note: Does not count toward biology major or minor.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 260. Human Anatomy & Physiology I  3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): BIOL 102 or BIOL 240 or equivalent with a grade of C or better and completion of CHEM 101 or CHEM 105 with a grade of C or better; restricted to students in the Nursing and Dental Hygiene programs.
Description: A general introduction to structure and function of the human body. Basic concepts related to anatomical terminology, cells, tissues, and integumentary, the skeletal, muscular, nervous, and endocrine systems are covered. Interrelationships of organ systems are also emphasized.
Note: This course is intended for students majoring in nursing or dental hygiene.
Note: Does not count toward a biology major or minor.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 261. Human Anatomy & Physiology II  3 Units
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): BIOL 260 with a grade of C or better; restricted to students in the Nursing and Dental Hygiene programs.
Description: A general introduction to structure and function of the human body. Basic concepts related to anatomical terminology, cells, tissues, and integumentary, the skeletal, muscular, nervous, and endocrine systems are covered. Interrelationships of organ systems are also emphasized.
Note: Does not count toward biology major or minor.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 262. Human Anatomy & Physiology Lab  1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): Completion of BIOL 260 with a grade of C or better and concurrent enrollment in BIOL 261.
Description: A study and correlation between the anatomy and physiology of selected organ systems.
Note: Does not count towards biology major or minor.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 263. Environmental Biology - B  4 Units
Term Typically Offered: Fall, Spring, Summer
Description: A study of the biological principles of environmental effects on living organisms; emphasis on ecological relationships of humans, including resource exploitation, pollution, environmental degradation, and human behavior. Includes laboratory and field components.
Note: Does not count toward biology major or minor.
Note: Students who have already received credit for BIOL 363 may not receive credit for this course.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 269. Introduction to Microbiology  4 Units
Term Typically Offered: Fall, Spring, Summer
Description: Introduction to microbiology, including principles of microbial growth and genetics, ecological and clinical applications, bacterial physiology, and techniques in microbial analysis. Emphasis on the role of microorganisms in disease and health.
Note: Does not count toward biology major or minor.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 270. Introduction to Microbiology Laboratory  1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): BIOL 269.
Description: Laboratory work associated with BIOL 269, including basic microbiological techniques.
Note: Does not count toward biology major or minor.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 280. Introduction to Microbiology - B  4 Units
Term Typically Offered: Fall, Spring, Summer
Description: A study of the biological principles of environmental effects on living organisms; emphasis on ecological relationships of humans, including resource exploitation, pollution, environmental degradation, and human behavior. Includes laboratory and field components.
Note: Does not count toward biology major or minor.
Note: Students who have already received credit for BIOL 363 may not receive credit for this course.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 290. Introduction to Microbiology Laboratory - B  1 Unit
Term Typically Offered: Fall, Spring, Summer
Prerequisite(s): BIOL 280.
Description: Laboratory work associated with BIOL 280, including basic microbiological techniques.
Note: Does not count toward biology major or minor.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 300. Plant Biology - WR  3 Units
Term Typically Offered: Fall Only
Prerequisite(s): BIOL 240 and BIOL 242.
Description: Introduction to the principles and methods of identifying, naming, and classifying plants. Focus on ecologically significant plants of North America and Kentucky, and discussion of the importance of specific species in maintaining ecosystem structure and function.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 304. Plant Taxonomy & Ecology - WR  3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 240, BIOL 242 and BIOL 244.
Description: Introduction to the principles and methods of identifying, naming, and classifying plants. Focus on ecologically significant plants of North America and Kentucky, and discussion of the importance of specific species in maintaining ecosystem structure and function.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 308. Vertebrate Zoology  3 Units
Term Typically Offered: Fall Only
Prerequisite(s): BIOL 240, BIOL 242, and BIOL 244.
Description: Explores the anatomy, ecology, and behavior of vertebrates from an evolutionary perspective. Laboratory work centers on anatomy and includes species identification, data collection, analysis, and presentation activities.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 310. Animal Behavior  3 Units
Term Typically Offered: Fall Only
Prerequisite(s): BIOL 240, BIOL 242 and BIOL 244.
Description: Survey of the field of animal behavior. Topics include communication, learning, mate choice, fighting and aggression, and mating systems.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
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<tr>
<td>BIOL 329</td>
<td>Cellular and Molecular Biology</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>BIOL 240, BIOL 242, and CHEM 201.</td>
<td>Processes at the molecular and cellular levels integrated with the science of biology and biodiversity. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>BIOL 330</td>
<td>Genetics and Molecular Biology</td>
<td>3</td>
<td>Fall, Spring</td>
<td>BIOL 329.</td>
<td>Genetics presented from a Mendelian to a molecular point of view. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>BIOL 331</td>
<td>Genetics and Molecular Biology: Laboratory</td>
<td>2</td>
<td>Fall, Spring</td>
<td>BIOL 330 (or concurrent).</td>
<td>The laboratory portion of BIOL 330 with exercises in genetics, cellular, and molecular biology. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>BIOL 347</td>
<td>Comparative Vertebrate Anatomy</td>
<td>4</td>
<td>Spring Only</td>
<td>BIOL 240, BIOL 242, and BIOL 244.</td>
<td>Phylogeny and comparative morphology of classes of vertebrates; structure and organ systems of lamprey, shark, and cat. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>BIOL 350</td>
<td>Biostatistics</td>
<td>3</td>
<td>Fall, Spring</td>
<td>MATH 180 or MATH 205.</td>
<td>A survey course of statistical procedures commonly used in the life sciences. It is taught at an introductory level and will focus on the application of statistical procedures to data. Note: This lecture course is supplemented with a separate recitation section.</td>
</tr>
<tr>
<td>BIOL 357</td>
<td>General Microbiology</td>
<td>3</td>
<td>Fall, Spring</td>
<td>CHEM 202, BIOL 329 or BIOL 330.</td>
<td>A comprehensive discussion of prokaryotic and eukaryotic microorganisms and their viruses including their diversity, structure-function relationships, growth and its control, metabolism and genetics and ecology. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>BIOL 358</td>
<td>Microbiology Laboratory</td>
<td>1</td>
<td>Fall, Spring</td>
<td>BIOL 357 (or concurrent) or BIOL 485 (or concurrent).</td>
<td>Discussion and exercises using basic and advanced microbiological laboratory techniques. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>BIOL 359</td>
<td>Microbial Genetics and Pathogenesis - WR</td>
<td>3</td>
<td>Spring Only</td>
<td>BIOL 330 and BIOL 357 recommended.</td>
<td>A literature-based introduction to current microbial genetics and pathogenesis. Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).</td>
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<tr>
<td>BIOL 363</td>
<td>Principles of Ecology</td>
<td>3</td>
<td>Fall, Spring</td>
<td>BIOL 240, BIOL 242, and BIOL 244.</td>
<td>A majors’ core course providing an overview of the basic principles and concepts of Ecology and an understanding of how those principles and concepts can aid in identifying and seeking solutions for human environmental problems. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>BIOL 364</td>
<td>Evolutionary Ecology of Disease</td>
<td>3</td>
<td>Fall Only</td>
<td>BIOL 240, BIOL 242, or consent of instructor.</td>
<td>An overview of genetic, parasitic, and environmental causes of disease; topics include evolution of virulence and antibiotic resistance, emerging diseases, and options for controlling disease. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>BIOL 382</td>
<td>Entomology</td>
<td>3</td>
<td>Fall Odd Years</td>
<td>BIOL 363.</td>
<td>Examination of the morphology, physiology, behavior, evolution and ecology of the major groups of insects. A collection of common insect families is required. The laboratory will include observations on live and preserved animals and possible field trips. Students will learn to: 1) use terms and concepts that describe the diversity of insects, 2) compare and contrast major insect groups with respect to structure and function, and 3) collect and prepare museum-quality specimens for scientific study. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
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<td>BIOL 388</td>
<td>Biology Honors Seminar</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
<td>Permission of instructor and completion of BIOL 240 and BIOL 242 with a minimum grade of B.</td>
<td>A 1-credit seminar course to introduce sophomores to undergraduate research opportunities at UofL with the purpose of finding a laboratory in which to do an honors thesis project by junior year. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>BIOL 389</td>
<td>Undergraduate Seminar</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
<td></td>
<td>Undergraduate seminar in varied aspects of biology; subject to be announced in the schedule of courses. Note: No more than 2 hours of BIOL 389 may be counted toward the major in biology. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>BIOL 390</td>
<td>Special Topics</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>Biology core or faculty consent.</td>
<td>Special topics in biology.</td>
</tr>
<tr>
<td>BIOL 391</td>
<td>Special Topics in Biology - WR</td>
<td>1-4 Units</td>
<td>Occasionally Offered</td>
<td></td>
<td>Topics to be indicated in the Schedule of Courses. Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).</td>
</tr>
<tr>
<td>BIOL 392</td>
<td>Microbes and Core Concepts in Ecology and Evolution - WR</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>BIOL 357, BIOL 363, or BIOL 409.</td>
<td>Core concepts in ecology and evolution using microbes as primary examples. Students will read primary scientific literature and write scientific reviews of the literature in order to enhance their understanding of these concepts. Note: Approved for the Arts and Sciences upper-level requirement for written communication (WR). For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>BIOL 395</td>
<td>Basic Pharmacology</td>
<td>3 Units</td>
<td>Spring Only</td>
<td>BIOL 260, BIOL 261, BIOL 465, or consent of instructor.</td>
<td>Students will gain knowledge of the properties and actions of pharmacological agents. For class offerings for a specific term, refer to the Schedule of Classes.</td>
</tr>
<tr>
<td>BIOL 396</td>
<td>Preview to Dentistry</td>
<td>3 Units</td>
<td>Spring Only</td>
<td>BIOL 329 and BIOL 330 or equivalent, and consent of instructor.</td>
<td>This course is designed for pre-dental students and students considering dentistry as a career. The purpose of the course is to expose pre-dental students to the art, science, and practice of dentistry. Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>BIOL 400</td>
<td>Histology</td>
<td>4 Units</td>
<td>Fall Only</td>
<td>BIOL 329 or consent of instructor.</td>
<td>The microscopic anatomy and function of vertebrate tissues and organs. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>BIOL 401</td>
<td>Advanced Ecology</td>
<td>3 Units</td>
<td>Occasionally Offered</td>
<td>BIOL 363.</td>
<td>Major concepts in evolutionary ecology. Theoretical and experimental studies of adaptation, population growth and regulation, competition, predation, diversity, life histories, and ecosystems. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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<tr>
<td>BIOL 402</td>
<td>Advanced Ecology Lab</td>
<td>2 Units</td>
<td>Occasionally Offered</td>
<td>BIOL 401 (or concurrently).</td>
<td>Field and laboratory experiments to investigate ecological principles. Discussion of research and practice of basic biostatistics and experimental design. Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content. For class offerings for a specific term, refer to the Schedule of Classes.</td>
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**BIOL 404. Undergraduate Research** 1-3 Units  
*Term Typically Offered:* Fall, Spring, Summer  
*Prerequisite(s):* Faculty and chair consent; minimum 30 credit hours; 3.0 cumulative GPA.  
*Description:* Undergraduate Research in a select subject area with a student-selected faculty member.  
*Note:* No more than 6 hours of Undergraduate Research (BIOL 404, BIOL 405 or BIOL 406 WR) or Independent Study (BIOL 501, BIOL 502 or BIOL 504 WR) may be used to meet the minimum in Biology for the BA or BS.  
*Course Attribute(s):* CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**BIOL 405. Undergraduate Research - CUE** 1-3 Units  
*Term Typically Offered:* Fall, Spring, Summer  
*Prerequisite(s):* Faculty and chair consent.  
*Description:* Undergraduate Research in a select subject area with a student-selected faculty member.  
*Note:* No more than 6 hours of Undergraduate Research (BIOL 404, BIOL 405 or BIOL 406 WR) or Independent Study (BIOL 501, BIOL 502 or BIOL 504 WR) may be used to meet the minimum in Biology for the BA or BS.  
*Course Attribute(s):* CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status., CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**BIOL 406. Undergraduate Research (WR) - CUE, WR** 1-3 Units  
*Term Typically Offered:* Fall, Spring, Summer  
*Prerequisite(s):* Faculty and chair consent; minimum cumulative grade point average of 3.0 and completion of biology core.  
*Description:* Undergraduate Research in a select subject area with a student-selected faculty member.  
*Note:* Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
*Note:* No more than 6 hours of Undergraduate Research (BIOL 404, BIOL 405 or BIOL 406 WR) or Independent Study (BIOL 501, BIOL 502 or BIOL 504 WR) may be used to meet the minimum in Biology for the BA or BS.  
*Course Attribute(s):* CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status., CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**BIOL 409. Evolutionary Biology - CUE** 3 Units  
*Term Typically Offered:* Fall Only  
*Prerequisite(s):* BIOL 363 or consent of instructor.  
*Description:* A review of basic evolutionary principles and processes including speciation, natural selection, sexual selection, extinction, heritability, genetic drift, inbreeding, outbreeding, heterochrony and Darwinian medicine.  
*Course Attribute(s):* CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status., CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**BIOL 410. Misuse of Biology in Film and Pop Culture** 3 Units  
*Term Typically Offered:* Occasionally Offered  
*Prerequisite(s):* BIOL 329, BIOL 330, and CHEM 341.  
*Description:* This course will examine how biology and themes in the biological sciences are portrayed in films and popular culture with a mind towards evaluating whether the science is appropriate or being misused. In the process of these analyses, we will explore such questions as: What is science and what is not? Also what is pseudo-science or bad science?  
*Note:* No more than 6 hours of Undergraduate Research (BIOL 404, BIOL 405 or BIOL 406 WR) or Independent Study (BIOL 501, BIOL 502 or BIOL 504 WR) may be used to meet the minimum in Biology for the BA or BS.  
*Course Attribute(s):* CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status., CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**BIOL 415. Biology of the Cell - CUE, WR** 3 Units  
*Term Typically Offered:* Spring Only  
*Prerequisite(s):* BIOL 329 and BIOL 330.  
*Description:* Cellular, molecular, and biochemical aspects of cellular function.  
*Note:* Approved for the Arts and Sciences upper-level requirement in written communication (WR).  
*Course Attribute(s):* CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status., CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BIOL 416. Biotechnology Methods - WR 4 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 330, BIOL 331, and CHEM 344; and consent of instructor.
Description: Designed for Biology and Chemistry students concentrating in Genetics/Subcellular. Provides hands-on experience with basic methods used in molecular biology, including but not limited to, agarose and polyacrylamide gel electrophoresis of nucleic acids and proteins, restriction digestion of DNA, Southern and Northern hybridization, PCR, DNA sequencing, and transformation of various cell types (including bacteria, fungi, plants, insects and vertebrates).
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 430. Undergraduate Teaching Assistant - CUE 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): BIOL 240, BIOL 242, BIOL 244, BIOL 329, BIOL 330 and BIOL 331; CHEM 341; minimum Junior standing; Biology major; 3.25 GPA in major; permission of instructor.
Description: A guided learning experience in inquiry-based instructional techniques and best practices in STEM education that includes a field experience as an undergraduate teaching assistant. 25 GPA in major to be eligible.
Note: Majors only; permission to enroll required, minimum cumulative 3.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 435. Chemical Ecology - WR 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): BIOL 240, BIOL 242, and CHEM 201.
Description: This course will explore the remarkable world of chemical ecology. Where ecological outcomes between or among individuals are influenced or determined directly or indirectly by chemicals produced by individuals. A key focus will be the chemical ecology of plants. Though we will also explore chemical ecology in animals as well. Considerable ecological information is derived from chemicals produced by organisms both to other members of the same species or to a different species, and affect both natural and sexual selection. We will use an interactive discussion/seminar-style to interrogate the primary literature for current knowledge of how chemical cues influence a diverse array of ecological interactions. From the African savannas to galling insects in our own backyard. Students will have flexibility to choose their own research topics to pursue focused critical thinking and hypothesis generation. Discussions will span a range of disciplines including genetics, molecular biology, biochemistry, natural products, ecology, and evolution. As such, this course is intended for students who have some prior knowledge of ecology and/or biochemistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 440. Global Change Ecology - CUE 3 Units
Term Typically Offered: Fall Only
Prerequisite(s): BIOL 363, GEOS 363, or GEOS 365; or permission of instructor.
Description: Human causes of global-scale changes in climate, air and water resources, and biodiversity, and impacts on people; approaches to addressing these problems that promote sustainable societies.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status., CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 443. Developmental Biology - CUE, WR 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 329 and BIOL 330.
Description: Developmental biology approached from a biochemical, cellular, and anatomical perspective with emphasis on vertebrate systems.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BIOL 465. Principles of Physiology
Term Typically Offered: Spring Only
Prerequisite(s): BIOL 329 or consent of instructor.
Description: A general study of the functions of organ systems in vertebrates.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 480. Introduction to Immunology - CUE
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 240, BIOL 242, BIOL 329 and BIOL 330; CHEM 201 and CHEM 202 or their equivalent.
Description: Lectures will present the basic principles of immunology, with an emphasis on reading and understanding primary literature. Topics include cells and organs of the immune system, the innate and adaptive response, effector molecules, and diseases of the immune system.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 485. Microbial Physiology - CUE, WR
Term Typically Offered: Fall Only
Prerequisite(s): BIOL 357 or BIOL 540; or permission of the instructor.
Description: An explanation of microbial cell biology and the processes, reactions, and energetics that support microbial life in a variety of circumstances. Includes discussions of how to modify those metabolic properties to meet new demands and conditions. A general understanding of the fundamental concepts of organic chemistry is strongly recommended.

Note: Approved for the Arts and Sciences upper-level requirement in communications (WR).

Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 490. Biology Internship - CUE
Term Typically Offered: Fall, Spring
Prerequisite(s): Junior standing, 2.5 GPA, and consent of instructor.
Description: Practical work experience in biological fields.

Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 501. Independent Study
Prerequisite(s): Faculty consent, minimum cumulative GPA of 3.0, and completion of biology core.
Description: Independent study in a selected subject area with a student-selected faculty member.
Note: No more than 6 hours of Undergraduate Research (BIOL 404, BIOL 405 or BIOL 406 WR) or Independent Study (BIOL 501, BIOL 502 or BIOL 504 WR) may be used to meet the minimum in Biology for the BA or BS.

Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 502. Independent Study
Prerequisite(s): Faculty consent, minimum cumulative GPA of 3.0, and completion of biology core.
Description: Independent study in a selected subject area with a student-selected faculty member.
Note: No more than 6 hours of Undergraduate Research (BIOL 404, BIOL 405 or BIOL 406 WR) or Independent Study (BIOL 501, BIOL 502 or BIOL 504 WR) may be used to meet the minimum in Biology for the BA or BS.

Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 504. Independent Study - WR
Term Typically Offered: Occasionally Offered
Prerequisite(s): Faculty consent, minimum cumulative GPA of 3.0, and completion of the Biology core.
Description: Independent study in a selected subject area with a student-selected faculty member.
Note: No more than 6 hours of Undergraduate Research (BIOL 404, BIOL 405 or BIOL 406 WR) or Independent Study (BIOL 501, BIOL 502 or BIOL 504 WR) may be used to meet the minimum in Biology for the BA or BS.

Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).

Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
Biology (BIOL) 8

BIOL 510. Behavioral Ecology
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 363.
Description: Evolution of behavioral adaptations for survival and reproduction; topics will include foraging, aggression, mate choice, mating strategies, and sociality.
Note: Credit may not be earned for both BIOL 510 and BIOL 610.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 511. Behavioral Endocrinology - CUE, WR
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 465.
Description: Interactions of hormones, brain, behavior.
Note: Credit may not be earned in both BIOL 511 and BIOL 611.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Note: Cross-listed with BIOL 611.
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 512. Endocrinology
Prerequisite(s): BIOL 465.
Description: Chemical regulation in animals.
Note: Credit may not be earned in both BIOL 512 and BIOL 612.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 514. Ornithology
Prerequisite(s): BIOL 242 and BIOL 244, or consent of instructor.
Description: Evolution, morphology, diversity, ecology, and behavior of birds. Lab stresses field identification of birds.
Note: Credit may not be earned in both BIOL 514 and BIOL 614.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 515. Environmental Physiology
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 240, BIOL 242 and BIOL 244 (or equivalent); or permission of department.
Description: Study of the physiological, morphological, behavioral and biochemical responses by eukaryotic organisms (primarily animals) to major physical and chemical factors of their environment.
Note: Credit may not be earned in both BIOL 515 and BIOL 615.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 519. Ichthyology
Prerequisite(s): BIOL 363.
Description: Introduction to anatomy, physiology, ecology, distribution, economic importance, and classification of major groups and representative local species of fish.
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 522. Aquatic Ecology
Prerequisite(s): BIOL 363.
Description: Ecological processes in aquatic environments with primary emphasis on lakes and reservoirs.
Note: Credit may not be earned in both BIOL 522 and BIOL 622.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 540. Intermediary Metabolism
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 329 and CHEM 342.
Description: An advanced study of metabolic pathways including synthesis of macromolecules (proteins, nucleic acids, lipids, carbohydrates), mechanisms of metabolic control and utilization of metabolic intermediates.
Note: Credit may not be earned in both BIOL 540 and BIOL 640.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 541. Medicinal Plant Biochemistry - CUE, WR
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 540, CHEM 445, CHEM 545, or BIOC 545.
Description: A detailed study of biosynthesis and bioactivity of specialized plant metabolites (secondary metabolites). Topics will include aspects of general plant metabolism as well as specialized metabolism pathways (alkaloids, terpenes and phenolics) and will include a survey of approaches as they relate to discovery of bioactive plant metabolites and a review of known plant metabolites used to treat human diseases/disorders.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
BIOL 542. Gene Structure and Function - WR 3 Units
Prerequisite(s): BIOL 330 or equivalent, or consent of instructor.
Description: Advanced topics in genetics of prokaryotes and eukaryotes, including chromosome structure and function, and gene regulation.
Note: Approved for the Arts & Sciences upper-level requirement in written communication (WR).
Note: Credit may not be earned for both BIOL 542 and BIOL 642.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

BIOL 548. Experimental Design and Analysis - CUE 3 Units
Prerequisite(s): BIOL 350 or BIOL 651.
Description: Move principles of sound experimental design, analysis and presentation from recognition to active vocabulary. Students completing the course can serve as statistical consultants for moderately complex statistical designs.
Note: Approved for the Arts and Sciences upper-level requirement in written communication (WR).
Course Attribute(s): CUE - This course fulfills the Culminating Undergraduate Experience (CUE) requirement for certain degree programs. CUE courses are advanced-level courses intended for majors with at least 90 earned credits/senior-level status.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

BIOL 552. Evolutionary Medicine 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 240, BIOL 242, BIOL 372, or BIOL 409, or equivalents.
Description: In-depth analyses at the interface of evolutionary biology and the health sciences using readings from the primary literature. Format involves lectures, discussion, and a library-based research project.
Note: Credit may not be earned in both BIOL 552 and BIOL 652.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

BIOL 553. Chronic Disease Biology 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): BIOL 329 and BIOL 372.
Description: The course will cover the biological bases of chronic disease, with an emphasis on the mechanisms of disease causation and the evolution of these mechanisms.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

BIOL 555. Microbial Ecology 3 Units
Prerequisite(s): BIOL 357, or BIOL 485, or consent of instructor.
Description: Interrelationships between microorganisms and their environments.
Note: Credit may not be earned in both BIOL 555 and BIOL 655.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

BIOL 560. Ecology of Urban and Suburban Landscapes 3 Units
Term Typically Offered: Spring Odd Years
Prerequisite(s): BIOL 363 or GEOS 365.
Description: Effects of cities and suburban sprawl on air and water chemistry, microclimate, fragmented landscapes, and responses of biotic and human communities to these conditions that degrade or promote urban resilience, adaptation and sustainability.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

BIOL 562. Ecosystems Ecology 3 Units
Prerequisite(s): BIOL 363; an advanced ecology course recommended.
Description: The transformations of matter and energy that link plant, animal and geochemical cycles. Implications for resource management also discussed.
Note: Credit may not be earned in both BIOL 562 and BIOL 662.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

BIOL 563. Population and Community Ecology 3 Units
Prerequisite(s): BIOL 363.
Description: Introduction to population dynamics and species interactions in aquatic and terrestrial ecosystems. Review of underlying ecological theory and its applications for conserving biodiversity.
Note: Credit may not be earned in both BIOL 563 and BIOL 663.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

BIOL 567. Conservation Biology 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): BIOL 363 or permission of instructor.
Description: This course provides an overview of theory and practice of conservation. Topics include biodiversity, habitat loss, the effects of habitat changes on populations, and the design and establishment of reserves. Among other things, students will learn: 1) key terms and concepts related to biodiversity, 2) significant threats to biodiversity and efforts to mitigate them, and 3) practical and socioeconomic elements of conservation biology.
Note: Credit may not be earned in both BIOL 567 and BIOL 667.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

BIOL 569. Evolution 3 Units
Prerequisite(s): BIOL 363.
Description: Offers a comprehensive overview of evolution and provides students with a review of issues that make up this critical discipline.
Note: Credit may not be earned in both BIOL 569 and BIOL 669.
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).
BIOL 571. Selected Topics 3 Units
Term Typically Offered: Occasionally Offered
Description: Contents to be indicated in schedule of courses.
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 572. Selected Topics-Laboratory 1-4 Units
Description: Contents to be indicated in schedule of courses.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 591. Biology for Teachers I 3 Units
Term Typically Offered: Occasionally Offered
Prerequisite(s): Experience in teaching biology or biological principles in elementary, middle or secondary school.
Description: Teaching pre-college biology with emphasis on curriculum content, laboratory procedures, and process skills.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 593. Experimental Cell Biology for Teachers 3 Units
Prerequisite(s): BIOL 240, BIOL 242, BIOL 244, BIOL 329, BIOL 330, and BIOL 331 or equivalent; or consent of instructor.
Description: Lecture and lab activities focused on inquiry-based investigations at the cellular level suitable for secondary school classroom.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

BIOL 594. Experimental Botany for Teachers 3 Units
Prerequisite(s): BIOL 240, BIOL 242, BIOL 244, BIOL 329, BIOL 330, BIOL 331 or equivalent, or consent of instructor.
Description: This course is designed for pre-service and classroom teachers of the life sciences from elementary through high school. To increase teachers’ abilities to teach sciences, especially botany, using inquiry-oriented strategies.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)