Interpretation — this is the act of having to assess something, and to give it meaning through your own voice. I have been charged with interpreting what Northern Kentucky University means to me through this catalog cover design project.

One thing about me is I notice architecture. An arch is an architectural form that was designed for the purpose of carrying weight; it takes the weight above and brings the stress to either side. The W. Frank Steely Library arch is a portal to NKU. You pass through it and you are engulfed in what is NKU. I wanted the image of the arch to appear on the cover because I view NKU as a support system. A system of “arches” that are here to support us through our journey into the next part of our lives.

As a junior, I’ve come to realize the sense of community here at NKU, and the network of people that are here. As a secondary element in the design, I abstracted our light path — the symbol that lights the way to the future — to be series of paths that represent people banding together. I also used it to represent the six colleges at NKU.

The diversity of majors and activities on campus are endless, and I wanted to reflect that by letting our paths extend off the page. With the support in NKU you can take yourself anywhere, so dream big.

The catalog cover design, the online catalog banner graphic, and the art for the catalog on CD were designed by Dillon under the art direction of Professor Julie Mader-Meersman, Department of Visual Arts, as an independent project.
NORTHERN KENTUCKY UNIVERSITY
UNDERGRADUATE CATALOG 2015-16
The Catalog
The university’s catalog is the document of authority for all students. It contains detailed information that will help students succeed in their degree and certificate programs, have a positive university experience, and graduate in a timely manner. The catalog contains information on domestic and international admissions; tuition and fees; degree requirements for every program; general education requirements; university-wide graduation requirements; academic opportunities; support services; enrichment opportunities; university policies and procedures; and faculty and administration. It also contains a brief description of each of the courses offered by the university. Students are strongly urged to read the catalog carefully and work closely with their advisors.

Catalogs for the current academic year, and 10 prior years, are available on the website (http://catalog.nku.edu).

Catalog Changes
The information contained in the catalog is accurate at the time of publication. However, Northern Kentucky University reserves the right to change regulations, policies, fees, services, and curricula through official actions of the NKU administration, its Board of Regents, or the Kentucky Council on Postsecondary Education.

University Accreditation
Northern Kentucky University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate, baccalaureate, masters and doctoral degrees. Contact SACS/COC (http://sacscoc.org) at 1866 Southern Lane, Decatur, GA 30033-4097 or call 404-679-4500 for questions about the accreditation of Northern Kentucky University.

Employment and Earnings of Kentucky College Graduates
Aggregate data on degrees and salary for all Kentucky colleges and universities is available from Kentucky’s Office for Education and Workforce Statistics (https://kcews.ky.gov/Reports/EmploymentEarningsJan2013.pdf). This data may be helpful to students seeking to match educational goals with jobs and professions, and in finding out about students who go on to pursue advanced degrees, average wages for various degree categories, and some insights into what happens to students who leave without a credential and do not continue their education elsewhere.

Disclosures
This publication was prepared by Northern Kentucky University and printed with state funds (KRS 57.375). NKU is an affirmative action/equal opportunity institution.
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About NKU

Mission
As a public comprehensive university located in a major metropolitan area, Northern Kentucky University delivers innovative, student-centered education and engages in impactful, scholarly and creative endeavors, all of which empower our graduates to have fulfilling careers and meaningful lives, while contributing to the economic, civic, and social vitality of the region.

Our 2018 Vision
Northern Kentucky University will be acclaimed by students, alumni, the region, and the commonwealth for:
- Our Success...in preparing graduates for a global society.
- Our Contribution...to regional progress and economic growth.
- Our Delivery...of distinctive academic programs.
- Our Dedication...to the development and wellbeing of our people.
- Our Effectiveness...in securing and managing resources sustainably.

Our Core Values
These are the core values that Northern Kentucky University embraces as we go about our work:
- We will promote a culture that fosters and celebrates EXCELLENCE in all that we do.
- We will engage in honest, fair, and ethical behavior with INTEGRITY at the heart of every decision and action.
- Ours will be a community that embraces INCLUSIVENESS, diversity, and global awareness in all dimensions of our work.
- We will approach our work – how we teach, engage, and serve – with creativity and INNOVATION.
- We will maintain a climate of COLLEGIALITY built on respect and characterized by open communication and shared responsibility.

Institutional History
NKU is the youngest of Kentucky’s eight state universities. The university’s roots go back to 1948 when the University of Kentucky established a two-year community college in Covington. In 1962 the extension branch was renamed Northern Community College. Five years later, a grassroots petition asking for a new college in the region was signed by more than 3,000 people including children, many of whom would someday graduate from NKU. As a result, an independent four-year degree-granting institution was created in 1968 by then-governor Louie B. Nunn, who signed legislation to establish Northern Kentucky State College, which eventually became Northern Kentucky University.

In late 1969, Dr. Frank Steely was selected as NKU’s first president. He immediately began work to hire faculty and staff, obtain funding, and oversee building construction. From 1970 to 1972, undergraduate courses were offered at the old community college’s location until Nunn Hall was completed in Highland Heights. When Nunn Hall opened in 1972, it constituted all of NKSC: the president’s office, classrooms, library, bookstore, vending machines – everything was located there.

Rapid growth occurred during the early years: nine buildings were constructed in the 1970s. The Salmon P. Chase Law School of Cincinnati merged with NKSC in 1971, and the first intercollegiate men’s basketball game was held that year. The first NKSC commencement ceremony was in the spring of 1973; graduate programs were added in 1975; the state college became a full-fledged university in 1976; and before the end of the decade the athletics program was winning regional championships. Chase Law School moved to the main campus in 1982. The first residence hall also opened that year, marking a shift from a student body composed exclusively of local commuters to a more diverse one from across the nation and the globe. When President Steely resigned in September 1975, the school enrolled almost 4,300 students.

Dr. A. D. Albright served as the second president, leading the institution from 1976-83. During his term, additional academic buildings opened and eased overcrowding. The 1977 opening of the University Center with a place to eat, meet, and hold student activities brought a more traditional campus feel. In 1983, at the end of Dr. Albright’s presidency, the school enrolled about 8,500 students and employed 1,160 faculty and staff.

In the 1980s and early 90s, NKU began to focus on its place in the region and the world. Dr. Leon Boothe, president from 1983-97, sought to diversify the university by initiating an international exchange program. He also led the first capital campaign in response to state funding cuts that reached a cumulative 30 percent of the university’s state appropriation. At the end of Dr. Boothe’s presidency, enrollment stood at 11,785, and 1,584 faculty and staff served the university.

Dr. James C. Votruba became NKU’s fourth president in 1997 and retired from the position in the summer of 2012. Under his leadership, new programs were added including cutting-edge undergraduate programs, many more master’s degree options, and two doctoral programs. Numerous buildings were built during his tenure including the Dorothy Westerner Herrmann Natural Science Center, the James C. and Rachel M. Votruba Student Union – named for President and Mrs. Votruba upon his retirement as president – The Bank of Kentucky Center, and NKU’s newest building: the super-high-tech Griffin Hall, home to the College of Informatics. Throughout his presidency, Dr. Votruba built on the concept of NKU as a metropolitan university, calling on the whole campus to become locally and regionally engaged for the benefit not just of the campus but also the community at large. On numerous occasions, NKU has been recognized nationally for its success in sharing knowledge through public engagement.

NKU’s athletics program was very successful during Dr. Votruba’s tenure as president. As a member of NCAA Division II, NKU won three national championships and 22 regional titles. The university’s first national athletics championship was earned by the women’s basketball team in 2000. When the women repeated in 2008, they became the first women’s team in Kentucky to win two national championships. The men’s soccer team followed in 2010 with a national title of its own.

At the end of Dr. Votruba’s presidency, NKU employed about 2,030 faculty and staff who served close to 15,800 students: 85 percent undergraduates, 11 percent graduate students, and 3 percent law students.

NKU Today
In August 2012, NKU welcomed its fifth president, Geoffrey S. Mearns, a former federal prosecutor, law school dean, and provost. Under his leadership, the university has continued to excel and attract high-achieving students who benefit from a student-centered faculty and extremely dedicated administrators and staff. The university offers associate degrees in a limited number of areas and six bachelor degrees: Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science in Nursing, and Bachelor of Social Work. Undergraduate students have a choice of 70 majors and 75 minors. Students can also choose from among more than 200 student clubs and organizations ranging from...
disciplined clubs such as the biology club to service organizations, advocacy groups, Greek organizations, sports clubs, faith-based organizations, leadership societies, and more.

Reflective of the university’s maturity, the athletics program began the four-year process of reclassifying to NCAA Division I in 2012, joining the Atlantic Sun conference. In addition to Kentucky, the Atlantic Sun includes universities from four states: Florida, Georgia, South Carolina, and Tennessee.

Today, NKU is a vibrant, exciting center of teaching and learning, research and creative work, and service to the northern Kentucky region, the commonwealth, the nation, and the world. The university prepares for the construction of its newest academic facility – a Health Innovation Center that will integrate a portfolio of health care disciplines with psychology, social work, and other areas. It will allow the university to identify and develop the next generation of talent and applied research Kentucky and our region desperately needs.

The university’s 2013-18 strategic plan focuses on the success of students in the classroom and beyond. It emphasizes a transdisciplinary approach to teaching and learning, expanding upon and extending the principles of interdisciplinary study by fostering a holistic approach to studying topics that arise at the intersection of business, science, law, and culture.

Accreditations
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The following organizations have accredited specific NKU programs: AACSB International—the Association to Advance Collegiate Schools of Business; American Bar Association; American Chemical Society (ACS); American Council for Construction Education (AACE); Commission on Accreditation of Athletic Training Education (CAATE); Commission on Accreditation for Respiratory Care (CoARC); Council on Social Work Education (CSWE); Joint Review Committee on Education in Radiologic Technology (JRCERT); National Association of Schools of Music (NASM); National Association of Schools of Public Affairs and Administration (NASPAA); National Council for Accreditation of Teacher Education (NCATE); Accreditation Commission for Education in Nursing; and Technology Accreditation Commission, ABET, Inc.

Campus Map
NKU makes available online a variety of campus maps (http://nku.edu/campusmaps.html) including: a three-dimensional view of the Highland Heights campus with links and information about each building; a regional map showing the location of the Highland Heights campus, NKU’s Grant County Center, and NKU’s METS Center; and driving directions to the Highland Heights campus.

Campus Calendars
NKU provides a variety of calendars (http://nku.edu/calendars.html) online, including a public events calendar (http.nkuconnections.nku.edu), specific calendars for athletics (http://nkunorse.com) and music (http://artscience.nku.edu/departments/music/concerts.html) events, and several academic calendars (http://registrar.nku.edu/academiccalendar.html).
**Program Offerings**

The table that follows shows the undergraduate programs available at NKU. Here’s how to read the table:

1. The **bachelor** column shows the majors and the degree (or degrees) associated with each major: BS = Bachelor of Science; BA = Bachelor of Arts; BFA = Bachelor of Fine Arts; BM = Bachelor of Music; BSN = Bachelor of Science in Nursing; and BSW = Bachelor of Social Work.
2. The **certificate** column lists "PB" for a postbaccalaureate certificate and "U" for an undergraduate certificate.
3. The other columns indicate by "AD" if one can earn an associate degree; "M" if one can earn a minor; and "TC" if one can obtain teacher certification in the listed discipline.
4. In addition, three superscript codes are used:
   - * means students with an interest in majoring in one of these fields will be placed in a pre-major status.
   - P means the program is available through PACE, a special program for adult learners; these programs are also available through a traditional delivery model.
   - O means the program is available online; most of these programs are also available through a traditional delivery model.

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Associate</th>
<th>Bachelor</th>
<th>Minor</th>
<th>Teaching Certification</th>
<th>Certificate</th>
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<tr>
<td>Accounting</td>
<td>BS*</td>
<td>M</td>
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<td>(General) Accounting</td>
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<td>Art</td>
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<td>Latin American &amp; Caribbean Studies</td>
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<td>Mechanical &amp; Manufacturing Engineering Technology</td>
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<td>Media Informatics</td>
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<td>Medieval and Renaissance Studies</td>
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<tr>
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<tr>
<td>Sports Business</td>
<td>BS*</td>
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<td>PB</td>
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<td>Statistics</td>
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<td>Technological Leadership and Innovation</td>
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<td>(Advanced) Technology</td>
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<td>Theatre</td>
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<td>Women’s and Gender Studies</td>
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<tr>
<td>Theatre in World Cultures</td>
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</table>

**NOTE:** Separate applications are required for athletic training, health science, nursing, radiologic technology, and respiratory care. Please contact the appropriate program director for a selective admission application.

**Graduate Programs**

NKU offers a wide array of graduate programs designed for students who seek to strengthen and accelerate their professional development and career paths. Programs are designed for working professionals and accommodate part-time enrollment. To find out more about the master’s programs, the doctoral program in educational leadership or nursing practice, or any of the numerous graduate certificate programs please call the Office of Graduate Programs at 859 572-6364; send them an email message (gradprog@nku.edu); or visit their website (http://gradschool.nku.edu).
Admissions and Enrollment

General Admissions Information

Office: Undergraduate Admissions  
Location: Lucas Administrative Center 400  
Telephone: 800-637-9948 -- OR -- 859-572-5220  
Fax: 859-572-6665  
Web Address: http://admissions.nku.edu  
Director: Melissa Gorbandt  
Other Key Personnel: Assistant Director of Processing: Michele R. Hall

Office: Transfer Service Center  
Location: Lucas Administrative Center 301  
Telephone: 859-572-5556  
Fax: 859-572-6094  
Web Address: http://transfer.nku.edu  
Director: Ava Nienaber  
Other Key Personnel: Assistant Director of Transfer Services: Kelsey Bevins

Northern Kentucky University invites undergraduate and graduate students to apply for admission to NKU as freshmen, transfer students, readmitted students, postbaccalaureate students, international students, and non-degree students.

This section discusses the application process for all prospective students except international and graduate students. Information for international students is provided in the International Admissions and Enrollment section. Graduate students should refer to the graduate catalog.

Potential applicants are encouraged to contact the Office of Undergraduate Admissions or the Transfer Service Center if they have questions or would like assistance with the application process.

All students shall be free from discrimination based on race, color, ethnic origin, national origin, color, creed, religion, age, gender, marital status, sexual orientation, uniform service or veteran status, physical or mental disability or political belief.

Important Admission Deadlines*

<table>
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<tr>
<th>Freshman</th>
<th>For Fall Semester</th>
<th>For Spring Semester</th>
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<tbody>
<tr>
<td>Early Action</td>
<td>January 15</td>
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<tr>
<td>Priority</td>
<td>November 1</td>
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<tr>
<td>Assured Consideration</td>
<td>February 15</td>
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<tr>
<td>Enrollment Confirmation</td>
<td>May 1</td>
<td>December 1</td>
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<tr>
<td>Final Deadline</td>
<td>July 1</td>
<td>December 1</td>
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<tr>
<th>Transfer/Postbaccalaureate/Readmission/Non-Degree</th>
<th>For Fall Semester</th>
<th>For Spring Semester</th>
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<tr>
<td>Priority</td>
<td>May 1</td>
<td>November 1</td>
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<tr>
<td>Assured Consideration</td>
<td>June 1</td>
<td></td>
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<tr>
<td>Enrollment Confirmation (does not apply to postbaccalaureate or readmits)</td>
<td>May 1</td>
<td>December 1</td>
</tr>
<tr>
<td>Final Deadline</td>
<td>July 1</td>
<td>December 1</td>
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</tbody>
</table>

*Check the website for PACE, winter, and summer application deadlines (http://apply.nku.edu).

Deadline Definitions

Early Action
Students interested in NKU freshman scholarship opportunities must apply by this deadline. A separate scholarship application is required for some scholarships and must be submitted by the early action date.

Priority
For freshman applicants applying for spring semester admission: Students meeting this deadline will be invited to participate in a December orientation and advising session.

For transfer/post-bachelor/readmission applicants: This deadline ensures adequate time for full consideration of the application file and allows time to schedule an advising appointment prior to selecting classes.

Assured Consideration
Students applying after this deadline risk not being admitted if NKU reaches capacity for new freshmen or transfer students. Applicants could be placed on a waiting list, deferred to a subsequent semester, or denied admission.

Enrollment Confirmation
This is the deadline by which students must confirm their intention to enroll by submitting the nonrefundable confirmation fee.

Final Deadline
This is the last date a student can submit an application for admission consideration.

Admission Requirements and Procedures

Freshman Applicants
A freshman applicant is a prospective student who has not attempted coursework at a regionally accredited college or university (other than college credit earned while in high school or during the summer immediately following high school graduation). Prospective freshmen are strongly encouraged to apply for admission early in their senior year. To be considered for admission as a freshman, applicants must submit the following:

1. An online application form (http://apply.nku.edu).
2. A $40 nonrefundable application fee.*
3. Official high school transcripts or GED scores.
4. ACT or SAT scores.
5. A pre-college curriculum form completed by the high school guidance counselor.

*See the section on Application and Enrollment Fee Policies for information on fee waivers and fee exclusions.

Home School and Independent Study Applicants
Applicants who are home schooled or completing their high school diploma through an independent study program must submit the following:

1. An online application form (http://apply.nku.edu).
2. A $40 nonrefundable application fee.*
3. ACT or SAT scores.
4. A notarized statement from the home-school teacher detailing the content of the student’s home-school curriculum, letter grades, and the duration of each course.
5. A pre-college curriculum form completed by the home-school teacher.

*See the section on Application and Enrollment Fee Policies for information on fee waivers and fee exclusions.
Application Evaluation
The Office of Undergraduate Admissions evaluates the applications of every degree-seeking freshman. Only completed applications are reviewed. The evaluation focuses on:

1. Completed high school classes and their relation to the Kentucky Pre-College Curriculum.
2. High school GPA.
3. High school class rank.
4. ACT composite and sub-scores in English, mathematics, and reading; or SAT total* and sub-scores in writing, mathematics, and critical reading. Applicants 21 years of age and older may submit a COMPASS score in place of ACT or SAT scores.

*Combined mathematics and critical reading score.

The purpose of this evaluation is to determine the applicant’s preparation for college-level coursework. The evaluation considers whether the applicant meets the minimum requirements for admission set forth by both the Kentucky Council on Postsecondary Education and NKU. NKU’s freshman admission standards are available online (http://standards.nku.edu).

All degree-seeking freshmen must submit a final, official high school transcript upon graduation. Final transcripts must be received prior to October 1 to ensure eligibility for continued enrollment and student financial assistance.

Kentucky Pre-College Curriculum
The Kentucky Pre-College Curriculum was established by the Kentucky Council on Postsecondary Education. It is a prescribed set of high school courses required for admission to an associate or baccalaureate degree program at a Kentucky public institution. Students admitted to the university not meeting a specific PCC area (or areas) are considered to have one or more academic deficiencies that must be remediated by completing prescribed courses in mathematics, English, social studies, sciences, and/or foreign language areas.

Exception 1: Students who are 21 years of age or older by the first official day of the full semester, or who will be turning 21 years of age during the semester, are exempt from completion of the PCC and admission standards. They are still subject to CPE College Readiness Standards.

Exception 2: A student with a PCC deficiency who achieved an ACT or SAT score that falls within the top 80 percent of all ACT/SAT test takers on a particular test date for English, mathematics, or science will not be considered to have a PCC deficiency in that specific area.

The Kentucky Pre-College Curriculum includes the following:

<table>
<thead>
<tr>
<th>Area</th>
<th>Credits</th>
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<tbody>
<tr>
<td>English Language Arts – English I, II, III, IV, or AP English</td>
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<tr>
<td>Mathematics – Algebra I, Algebra II, Geometry*</td>
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<tr>
<td>Science – Biology I, Chemistry I, Physics I or life science, physical science, and earth/space sciences (at least one lab course)</td>
<td>3</td>
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<tr>
<td>Social Studies – U.S. history, economics, government, world geography, and world civilization</td>
<td>3</td>
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<tr>
<td>Foreign Language – Two credits in the same language or demonstrated competency</td>
<td>2</td>
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<tr>
<td>Health</td>
<td>1.5</td>
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<td>Physical Education</td>
<td>1.5</td>
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<tr>
<td>History and Appreciation of Visual and Performing Arts – History and appreciation of visual and performing arts or another arts course that incorporates such content</td>
<td>1</td>
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<tr>
<td>Electives – Strongly recommended: one or more courses that develop computer literacy</td>
<td>5</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>22</strong></td>
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*A student may substitute an integrated, applied, interdisciplinary, or higher-level course within a program of study if the substituted course offers the same or greater academic rigor and the course covers or exceeds the minimum required content.

Admission Status – Freshmen
All freshman students offered admission to NKU will be placed in one of two categories: regular admission or admission with conditions.

Regular Admission
To be granted regular admission an applicant must meet the following three conditions:

1. High school or equivalent completion as evidenced by:
   a. A diploma from an accredited high school with a minimum cumulative high school GPA of 2.00 on a 4.00 scale (high school rank of top 60 percent will be accepted in lieu of the 2.00 GPA requirement).
   -- OR --
   b. A general equivalency diploma (GED).
   -- OR --
   c. Documented completion of an approved home school or distance learning high school program.

2. Satisfactory standardized test performance as evidenced by:
   a. A minimum ACT composite score of 20 and minimum English, mathematics, and reading subject scores of 18.
   -- OR --
   b. A minimum SAT composite score of 940 (combined mathematics and critical reading scores) and minimum subject scores of 430 in writing, 430 in mathematics, and 450 in critical reading.
   -- OR --
   c. A minimum COMPASS score of English 74 or higher, mathematics 35 or higher, and reading 81 or higher. (For applicants 21 years of age or older)

3. Completion of the Kentucky Pre-College Curriculum (waived for applicants 21 years of age or older).

Students are required to submit all required credentials to be considered for admission. NKU reserves the right to verify authenticity of all submitted educational credentials.

Admission with Conditions
Admission with conditions may be granted to a limited number of students who do not meet all criteria for regular admission.

1. Conditionally admitted students are required to take placement test(s) and enroll in any required developmental courses during their first year.
2. Students who are granted admission with two or more academic deficiencies are assigned to Norse Advising. Norse Advising advises students regarding their academic plan and refers students to appropriate support programs. The students may have a limited course load for their first semester. The limited course load and mandatory academic support may be continued if a student is not in good standing after his or her initial semester.
3. Students admitted with conditions may not declare/change a major until all conditions are satisfied.
4. First-time freshmen who are granted admission with two or more academic deficiencies will be admitted to an associate degree program and must participate in the Pathfinders Program. Through the Pathfinders Program, students must participate in a variety of advising appointments, study sessions and special programs to maintain their enrollment eligibility. Please visit the website for specific details (http://pathfinders.nku.edu).

*Students who are 21 years of age or older are exempt from the Pathfinders Program and should follow the requirements outlined in #2 above.
Some applicants with two or more academic deficiencies could be placed on a waiting list to have their files reviewed by an admissions committee. A limited number of wait-listed students with the strongest academic record may be offered admission if there is space remaining in the freshman class.

Students Denied Admission
Applicants who are denied admission are encouraged to complete 24 semester credits of coursework at a regionally accredited institution or one with which NKU has an articulation agreement, and successfully complete all required developmental academic work prior to applying as a transfer student.

Transfer Admission
Transfer applicants are prospective students who have graduated from high school and have previously attempted coursework for credit (other than college credits taken while in high school) at another regionally accredited college or university. Potential transfer students who have a GPA of at least a 2.00 from a regionally accredited institution and who have 24 or more transferable credit hours must submit the following:

1. An online application form (http://apply.nku.edu).
2. A $40 nonrefundable application fee.*
3. Official transcripts from each college attended.
4. ACT or SAT or COMPASS test scores.
5. *See the section on Application and Enrollment Fee Policies for information on fee waivers and fee exclusions.

Potential transfer students with a GPA of at least 2.00 and fewer than 24 transferable credit hours must supply the following credentials; applicants are evaluated based on the freshman admission standards.

1. An online application form (http://apply.nku.edu).
2. A $40 nonrefundable application fee.*
3. Official transcripts from each college attended.
4. Final and official high school transcript or GED scores.
5. ACT or SAT or COMPASS test scores.
6. *See the section on Application and Enrollment Fee Policies for information on fee waivers and fee exclusions.

Potential transfer students with lower than a 2.00 GPA may apply but are not guaranteed admission to NKU. They must adhere to the following deadline dates and submit all required application materials. Their applications are reviewed by a committee, and decisions of the committee are final.

Applicants for Fall
- July 1
Applicants for Spring
- November 1
Applicants for Summer
- April 1

1. An online application form (http://apply.nku.edu).
2. A $40 nonrefundable application fee.*
3. Official transcripts from each college attended.
4. Final and official high school transcript or GED scores.
5. ACT or SAT or COMPASS test scores.
7. *See the section on Application and Enrollment Fee Policies for information on fee waivers and fee exclusions.

Regular Admission – Transfer Students
To be considered for regular admission, transfer applicants must have a 2.00 GPA. Students are required to submit all required credentials to be considered for admission. NKU reserves the right to verify authenticity of all submitted educational credentials.

Admission with Conditions – Transfer Students
Admission with conditions may be granted to a limited number of transfer students who do not meet all criteria for regular admission.

1. Conditionally admitted students may be ineligible to declare a major.

2. Students admitted with conditions may not declare/change a major until all conditions are satisfied.

3. Conditionally admitted students may be limited to a 12-credit course load for their first semester.

Advising and Registration of Transfer Students
Once admitted to NKU, transfer students will receive a full transfer credit evaluation applying NKU’s policies on transfer credit that appear in the University Policies and Procedures section of this catalog. A completed transfer credit evaluation report shows which courses have been accepted and how each course will transfer to NKU. Once the student receives this report, the student is ready to meet with an academic advisor who will answer questions such as what courses are needed for the student’s chosen major and how the transfer work will apply to the student’s general education, major, and minor requirements. Academic advisors also assist students with course selection for registration. Transfer students are eligible to register based on their number of earned credit hours.

Kentucky Postsecondary General Education/Framework Transfer Agreement
The Kentucky Council on Postsecondary Education (CPE) and other Kentucky public institutions developed and approved the Kentucky Transfer Policy to facilitate student progress toward graduation and to ease the transition between state institutions within Kentucky. Under this agreement, students who complete a general education category at a Kentucky public institution from which they are transferring will have that category fulfilled at NKU.

In addition to general education, the Baccalaureate Program Transfer Frameworks identify 12 hours of coursework in specific majors that may be successfully transferred. Each framework has a specific guide to the exact courses that a student must complete. Students should work closely with advisors at their home institutions to ensure they are taking framework courses for transfer to NKU. For more information regarding this policy, students should contact the Office of Transfer Services within the Office of the Registrar at 859-572-5556.

Articulation Agreements
Northern Kentucky University has established formal articulation agreements with a variety of colleges and universities. These agreements facilitate the transfer of credits to NKU and specify how the credits will contribute to satisfying general education or other degree requirements. Students should alert their academic advisor if they have completed a program that is governed by a formal, approved articulation agreement between their prior institution and NKU. For specific information, contact the Office of Transfer Services within the Office of the Registrar at 859-572-5556.

Placement Testing
The Kentucky Council on Postsecondary Education has established the following college readiness standards for all incoming freshmen and transfer students. Failure to meet one of the standards constitutes a deficiency.

Students who do not meet the college readiness standards are required to take a placement test in every area in which the standard is not met. Placement tests must be taken prior to orientation and registration in any course at NKU. Each placement test can be taken only once. Students register for placement tests online (http://testing.nku.edu).

<table>
<thead>
<tr>
<th>ACT Scores</th>
<th>College Ready Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>(After October 1989)</td>
<td></td>
</tr>
<tr>
<td>English</td>
<td>18 or higher</td>
</tr>
<tr>
<td>Mathematics</td>
<td>19 or higher</td>
</tr>
<tr>
<td>Reading</td>
<td>20 or higher</td>
</tr>
</tbody>
</table>
Nontraditional students who are admitted based on COMPASS scores are not required to take placement tests.

Students with an academic deficiency are required to enroll in all necessary developmental courses during their first two semesters at NKU.

Developmental courses do not contribute to the credits required for graduation and will not be calculated in the GPA. Please refer to Learning Assistance Programs (http://lap.nku.edu) for more information and a listing of available developmental courses.

Readmission Applicants
Readmission applicants are undergraduate students who have previously attended NKU but have not been enrolled during the previous two years (effective spring 2015). Graduation requirements for readmitted students will change to the current year’s catalog of record. Applicants for readmission should submit the following:

1. Online application form (http://apply.nku.edu).
2. A $40 nonrefundable application fee.*
3. Official transcripts from each college attended since leaving NKU.
*See the section on Application and Enrollment Fee Policies for information on fee waivers and fee exclusions.

Postbaccalaureate Applicants
Postbaccalaureate applicants have received a bachelor’s degree and intend to enroll for additional undergraduate credit as degree-seeking students. Applicants should submit the following:

1. An online application form (http://apply.nku.edu).
2. A $40 nonrefundable application fee.*
3. Official transcripts from each college attended other than NKU.
*See the section on Application and Enrollment Fee Policies for information on fee waivers and fee exclusions.

Transfer coursework for postbaccalaureate students is subject to departmental approval and is not evaluated in its entirety. Postbaccalaureate students are considered to have completed general education requirements.

School-Based Scholars Program
This program allows eligible high school students to take up to 8 NKU classes prior to high school graduation at a discounted rate at their respective high schools, the NKU Grant County Center, or the Highland Heights campus. The current tuition rate is available online (http://nkusbs.nku.edu). Students are also responsible for the program application fee, cost of textbooks, and any applicable course fees. Students taking more than the approved number of courses will be charged the full applicable tuition rate. High school students are eligible for the School-Based Scholars Program if they:

- Have completed the sophomore year of high school at the time classes are taken.
- Have earned an ACT/PLAN composite score of 20/18 respectively, or an SAT/PSAT mathematics and critical reading combined score of 940/94 respectively.
- Have earned a cumulative high school GPA of at least 3.0 on a 4.0 scale.
- Maintain a grade of C or higher in each college course completed prior to high school graduation.

- Have written permission from a high school principal or guidance counselor.
- Have written permission from a parent or guardian (if under age 18).
- Meet all prerequisites for the specific NKU courses in which they intend to enroll. For some courses, prerequisites include minimum ACT sub-scores in English, mathematics, or reading.

School-based scholars must submit the full program application prior to their first semester and proof of continued eligibility in each subsequent semester. For applications and deadlines for each semester, interested students should see their high school guidance counselor or visit the SBS website (http://nkusbs.nku.edu). The Kentucky Department of Education offers the Mary Jo Young Scholarship for eligible students with financial hardship. Please see your high school guidance counselor for application information and deadlines.

Students interested in applying for the School-Based Scholars Program should submit the following documents via email (sbs@nku.edu) or fax 859-392-2416:

- SBS Disclosure Form.
- Copy of current high school transcripts, including GPA and test scores.

Upon receipt of these items, the student will receive a link to an online application for admission along with instructions about how to complete the application.

To be eligible to continue in the School-Based Scholars Program, students must achieve a grade of C or higher in each SBS course. Continuing school-based scholars must submit an updated official high school transcript with high school GPA and ACT/PLAN test scores (if taken or retaken since previous submission of credentials) prior to enrollment in subsequent semesters.

School-based scholars wishing to apply to NKU as freshmen after high school graduation must submit a new application along with the appropriate credentials for freshman admission. The application fee is waived for those who enter NKU in the summer or fall immediately after high school graduation.

Non-Degree Seeking Students
NKU offers a variety of non-degree options:

1. **General non-degree students** are those who do not intend to enter a degree program at the time of application.
2. **Non-degree postbaccalaureate students** are those who have previously earned a bachelor’s degree and intend to enroll for additional undergraduate credit as non-degree seeking.
3. **Visiting students** are those who attend another college or university but wish to enroll at NKU for one semester. These students are responsible for having coursework approved by the institution to which the work will be transferred. Visiting students, except for those who enroll through the Greater Cincinnati Consortium of Colleges and Universities, may not enroll at NKU for more than one consecutive semester. For the purposes of this rule, all summer terms taken together are considered one semester.

To apply as a non-degree student, applicants should submit the following:

1. An online application form (http://apply.nku.edu).
2. A $40 nonrefundable application fee.

Application materials should be submitted by the following dates:

- Applicants for Fall: August 1
- Applicants for Winter or Spring: December 1
- Applicants for Summer: May 1

**Non-Degree Policy**
To apply for non-degree admission, an applicant must have a high school diploma or GED. A maximum of 36 semester credit hours earned as a
non-degree student may be applied to a degree at NKU. Non-degree students are NOT eligible to receive federal financial aid. To facilitate the admission process, prospective non-degree students are strongly encouraged to apply and supply all required credentials by the deadline given above. Requests for exceptions to admission deadlines will be reviewed by the admissions director. Non-degree students are required to meet the prerequisites for all courses they wish to take. Students who choose to become degree-seeking at a later date must submit a new application for admission, pay the application fee, submit all required credentials, and meet the appropriate admission deadline.

**Permanent Resident Applicants**

Permanent residents should file the standard domestic application for admission. Permanent residents must submit application materials as listed in the appropriate admission category: freshman, transfer, postbaccalaureate, readmission, and non-degree. Applicants must submit a copy of their Permanent Resident Card. Permanent residents will be evaluated based on the standards used with domestic applicants. If a student is unable to supply a Permanent Resident Card, please contact the Office of Admissions at 859-572-5220 for alternate document types that may be submitted.

Permanent residents may also be required to take placement tests to determine placement in English and mathematics courses at NKU. The transfer evaluation of foreign documents requires an evaluation by a foreign evaluation service. NKU only accepts evaluations from companies which hold active membership in the National Association of Credential Evaluation Services. You can find a list of members on the web (http://www.naces.org). Students must submit certified English translations (if applicable) along with original foreign language transcripts for all university and/or postsecondary coursework completed overseas. Students must submit detailed course descriptions and/or syllabi of all completed coursework in order to be considered for specific transfer credit.

**Adult Student Programs**

**Office**: Educational Outreach  
**Location**: Campbell Hall 270  
**Telephone**: 859-392-2400  
**Fax**: 859-392-2416  
**Email address**: edoutreach@nku.edu  
**Web address**: http://adultlearner.nku.edu  
**Executive Director**: Vicki Berling

**Other key personnel**:  
- Associate Director of PACE and Cohort Learning: Debbie Poweleit  
- Associate Director of Online Learning: Meredith Singleton  
- Associate Director of Continuing Education: Amanda Peters  
- Academic Specialist: Sherry Cucchiara

These programs are specifically designed to meet the unique needs of working adult students. Interested parties should contact the office listed under each program description for detailed information about application procedures and admission criteria.

**The Program for Adult Centered Education (PACE)**

Highly structured yet amazingly flexible, PACE operates on year-round eight-week sessions that enable adult learners to complete their degrees in a timely manner while continuing their work, family, and community obligations. Instruction is web enhanced with many workplace applications. A variety of degree options (http://pace.nku.edu/undergradmajors.html) are available through PACE including associate degrees in pre-business studies and integrative studies, and bachelor’s degrees in business administration, business informatics, computer information technology, integrative studies, and organizational leadership. In addition to meeting university admission standards, PACE applicants must meet requirements regarding work experience. PACE applications are accepted year-round and are available online (http://apply.nku.edu). Applicants should select the “PACE Student” application and “PACE” as the academic area of interest. Please note that the online application will display PACE as a non-degree program. This is for admission purposes only. All PACE students are degree seeking and, therefore, may apply for financial assistance.

Students interested in learning more about PACE should schedule an information session by calling 859-392-2400 or sending an email (pace@nku.edu).

**Project Graduate**

For adults who started their bachelor’s degrees years ago but left college before finishing, Project Graduate provides an opportunity to complete a degree. This statewide initiative assists adult learners who have accumulated 70 credit hours to return to finish their first bachelor’s degree. NKU Project Graduate benefits include personalized advising and limited scholarship opportunities for both prior and new transfer students. Prospective students can find out if they qualify for Project Graduate by calling 859-392-2400, sending an email (edoutreach@nku.edu), or by visiting the website (http://adultlearner.nku.edu/projectgraduate.html).

**Online Learning**

Educational Outreach provides administrative and student-support services for 15 fully online degree programs and 9 certificates at the undergraduate and graduate levels plus hundreds of online courses. Through online learning, students can complete their educational goals at a time and place convenient to their schedule. The current list of fully online degree programs (http://nkuonline.nku.edu) and a list of courses offered in the fully online format can both be found online (http://nkuonline.nku.edu/courseofferings.html). Admission criteria and application procedures for fully online programs can be obtained by calling 859-392-2400 or sending an email (nkuonline@nku.edu).

**State Authorization**

NKU recognizes that states have the authority to regulate colleges and universities offering education within that state’s boundaries, which includes regulation of distance learning and online education. NKU is making good faith efforts to comply with the regulations in states where it serves students. Out-of-state students are advised to check with their postsecondary governing board with specific questions about NKU’s authority to provide specific degree programs. Out-of-state students considering programs that require subsequent licensure by the state of residence (i.e. nursing or education) may also check with the state licensure office. State-specific information is available online from SHEEO (http://www.sheeo.org/sites/default/files/Directory%20of%20State%20Authorization%20Agencies%20and%20Contacts%20-%202006-2013%20-%20UPDATED.pdf).

**State Authorization Statements (as required by the states below)**

- Northern Kentucky University is registered as a private institution with the Minnesota Office of Higher Education pursuant to sections 136A.61 to 136A.71. Registration is not an endorsement of the institution. It is possible that credits earned at the institution may not transfer to all other institutions.
- This institution is authorized by The Indiana Commission for Higher Education/The Indiana Board for Proprietary Education: 101 West Ohio St., Suite 670; Indianapolis, Ind.; 46204-1984; 317-464-4400 Ext. 138 or 141.
Online Learning Student Complaint Information

NKU is required to provide all current and prospective out-of-state students with the contact information of the state agency that handles complaints against institutions of higher education within that state. Enrolled students are encouraged to utilize NKU’s internal complaint and review policies. State-specific information is available on the web (http://sheeo.org/sites/default/files/Complaint%20Process%20Links%2012-2012.pdf).

Educational Partnerships with Employers

In partnership with local corporations and organizations, NKU provides certificate and degree programs via onsite and/or online delivery. Employees of the partnering organizations attend classes together in cohort groups and receive special assistance from the application process all the way through to graduation. More information can be obtained about these partnerships by calling 859-392-2400 or by sending an email (continuinged@nku.edu).

Onsite Educational Partnerships (Cohorts)

In partnership with local corporations and organizations, NKU provides certificate and degree programs via onsite and/or online delivery. Employees of the partnering organizations attend classes together in cohort groups and receive special assistance from the application process all the way through to graduation. More information can be obtained about these partnerships by calling 859-392-2400 or by sending an email (edoutreach@nku.edu).

Professional Continuing Education

NKU provides continuing education programs covering a wide range of topics in a variety of delivery styles. Courses are available in NKU classroom settings, onsite at area businesses, and in various online formats. The current list of noncredit, professional education programs offered in conjunction with Educational Outreach can be found online (http://adultlearner.nku.edu/continuinged.html). More information can be obtained by sending an email (continuinged@nku.edu) or calling 859-392-2400.

Application and Enrollment Fee Policies

Application Fee Waivers

An applicant may request a fee waiver based on financial hardship. The request will be considered by the admissions director provided that it is accompanied by a letter from one of the following:

1. A high school counselor or principal.
2. A Talent Search counselor, Upward Bound official or Student Support Services representative.
3. A state of Kentucky representative issuing a Certification of Financial Assistance.
4. ACT/SAT application fee waiver request.

Application Fee Exemptions

1. Students from the Greater Cincinnati Consortium of Colleges and Universities and the Southwestern Ohio Council for Higher Education are not charged the application fee if they apply as a visiting/consortium student.
2. Students applying to transfer to NKU from a college or university that is not a member of GCCCU are charged the application fee.
3. Students whose last attendance was at an institution within the Kentucky Community and Technical College system are not charged an application fee.
4. Alumni who have earned a bachelor’s degree from NKU will have the application fee waived for postbaccalaureate or graduate applications for admission.
5. The application fee is waived for faculty and staff, as well as for spouses or dependents of NKU faculty or staff who are eligible for the tuition waiver. NKU faculty or staff must supply a current NKU ID to the appropriate admissions office.
6. Students who participated in NKU’s School-Based Scholars program are not charged an application fee.
7. All veterans are not charged an application fee.
8. Qualified employees of EdAssist partners may request the application fee be waived at time of application. Paid application fees may not be refunded.

Enrollment Confirmation Fee

All first-time, degree-seeking, new undergraduate students who will enroll in six or more semester credit hours must confirm their intention to enroll by submitting the confirmation fee form with a nonrefundable $75 confirmation fee payment. The deadline to submit the confirmation form and fee is May 1 for the summer and fall semesters and December 1 for the spring semester. Students admitted after these deadlines will have two weeks from their date of acceptance to submit the Enrollment Confirmation Fee. International students and PACE students will be charged at the time they enroll for their first semester at NKU.

Residency

Residency affects a student’s classification for tuition purposes. Students are notified of their residency status when they are admitted to the university. Residency status is determined in accordance with the state of Kentucky (CPE) classifications. Relevant portions of the policy are given in the appendix of this catalog.

Students who wish to appeal their initial residency classification or request a change of residency must complete a residency affidavit packet. Packets may be obtained from the Office of the Registrar, Lucas Administrative Center 301. Residency packet deadlines and residency FAQs are available online (http://registrar.nku.edu/Residency.html).

Selective Admissions Programs

Admission to NKU does not guarantee acceptance to all academic programs. The following academic programs have requirements above those listed for regular admission: biological sciences, chemistry, criminal justice, data science, health science, honors, international studies, nursing, organizational leadership, political science, radiologic technology, and respiratory care. Additionally, music requires an audition. Please review program admission requirements listed in the appropriate section of this catalog.

Northern Exposure: Registration and Orientation

As students begin to prepare for the transition to college, NKU has developed a comprehensive orientation program to assist all incoming students in cultivating their own individual support network at the university. Northern Exposure: Registration and Orientation is designed to foster an enduring connection between the students, their families and the NKU community. Through interactive experiences, students will become informed and skilled consumers of the academic programs, comprehensive services and engagement opportunities offered at NKU. While Northern Exposure is mandatory for all incoming students, we do have separate orientations for new first-time freshmen, post-traditional students, veterans and transfers. Students enrolled in the PACE program or an online degree program are not required to attend Northern Exposure.

Traditional Undergraduate First-Time Students

For new traditional-age first-time freshmen, Northern Exposure is required and consists of a two-part process known as Registration and Orientation.
Registration consists of a one-day advising and registration program (dates in June and July) AND Orientation consists of three days of orientation (in August). Northern Exposure allows students to become familiar with academic departments, register for classes, and learn about the variety of services and leadership opportunities available to them as NKU students. All traditional-age first-time freshmen are required to attend BOTH Registration and Orientation to fulfill their mandatory orientation requirement. Students are encouraged to bring their parent(s)/guardian(s) to the one-day registration program as there will be a parent/guest program schedule running concurrently with the student schedule.

Transfer, Veteran and Post-traditional Students

Orientation for transfer* students is held in concurrence with the new, first-time, post-traditional student orientation. This is a one-day program offered in a conference-style format, that will educate students on the many services that NKU has to offer, answer questions they may have about college life and help them begin to build a strong success network at NKU. During each orientation experience, students will have the chance to meet with faculty and staff from their respective college or school, new classmates, and current students. Students will also learn about the campus resources available to enhance their success from their first semester to graduation. For transfer students, the orientation program depends on how many earned hours they are transferring to NKU. They may be eligible to participate in SCOOP: Student Centered Online Orientation Program versus attending the one-day, on campus program.

Students who are veterans (defined as being a member of a branch of the U.S. military), may choose to attend the veteran track available during one or more of the one-day transfer/post-traditional orientation programs. The veteran track will provide more specific information about our nationally-recognized student veteran organization, the veteran education benefit process, how benefits impact financial aid eligibility, and the full range of campus resources available to veterans attending NKU.

Advising and course registration is not included in the one-day orientation program for transfer, post-traditional and veteran students. Students should contact their advising centers directly to make an advising appointment prior (if possible) to their orientation.

*Transfer students are eligible for priority registration based on the number of earned hours they are transferring to NKU.

For more detailed information, students should consult the orientation website (http://orientation.nku.edu) or contact the Office of New Student Orientation and Parent Programs at (859) 572-1967.

Enrolling and Registering for Classes

Building a Good Schedule

NKU offers the following tips to help students build a good schedule:

1. Know yourself. NKU classes are offered at a variety of times throughout the week: morning, afternoon, evening, and weekends. There are classes offered in a traditional face-to-face classroom on the main campus, classes offered online, and classes at the Grant County Center. What works best for you? Are you a morning person? What kind of outside obligations do you have? Will family or work responsibilities impact the time you can take classes? Do you like the idea of online classes that require more self-directed learning?

2. Create a balanced schedule.
   a. Balance the types of courses you choose. In a single semester, do not take five heavy reading classes, or three mathematics courses, or several heavy writing classes. Seek variety in the kinds of courses you will be taking.
   b. Balance the times of courses you have in your schedule. Most courses meet Monday, Wednesday, and Friday for 50 minutes or Tuesdays and Thursdays for 75 minutes. Avoid taking all classes on the same few days. If you cannot avoid it, then be sure to schedule some breaks during the day so you have time to get up, walk around, and get something to eat.

3. If you need to take developmental classes, take them as soon as possible. These classes are essential to academic success in college-level courses, and they must be taken within the first two semesters of enrollment.

4. Meet with your advisor early in the semester to review your educational plan and choose your courses for the upcoming semester. Review any developmental courses that you might need. Be sure you are meeting the general education requirements as well as requirements for your major and minor.

Registering for Classes

Academic advising is required for many students and strongly recommended for all students prior to registering for classes. Students who are in good standing may register through myNKU. myNKU is the secure Internet-based portal from which students can access registration (including adding, dropping, and withdrawing from courses), course offerings and class descriptions, grades, official and unofficial transcripts, student accounts (tuition, student fees, and payments), and financial aid. Upon admission, students are issued user names and directed to create a password to access their myNKU account. For myNKU tutorials, students should visit the website (http://mynkuhelp.nku.edu/stuvideos.html).

Registration Holds

Registration holds prevent students from registering for courses. They are most often established because the student has not submitted final official transcripts, is required to meet with his or her advisor prior to registering, or owes money to the university. Registration holds must be cleared (resolved) before a student can register online via myNKU. The student can still search for courses and place them in the registration cart, but the student must contact the office or department that placed the hold before being able to register. For advising holds, the student should contact his or her academic advisor to make arrangements for clearing the advising hold. If a hold is related to a fee, the fee must be paid before the hold will be released. To release a credential hold, students should contact the Office of Undergraduate Admissions. Generally, holds can be released Monday-Friday between 8:15 a.m. and 4:30 p.m. For more information about holds, students should consult the web (http://registrar.nku.edu/Registration/Registrationholds.html).

Housing

Location: Norse Commons 101
Telephone: 859-572-5676
Fax: 859-572-6099
Email Address: housing@nku.edu
Web Address: http://housing.nku.edu
Director: Amy Slaughter
Other Key Personnel:
- Associate Director of Residence Life: Victoria Suttmiller
- Associate Director of Housing Operations: Cathy Carson

University Housing provides housing services for single students who live on campus during the school year. Unless qualifying for an exemption, new first-year students are required to live on campus. Please visit the website for exemption categories (http://housing.nku.edu).

Campus housing includes traditional residence hall rooms as well as apartment-style living and suite-style living. Lounge areas, information desks, computer labs, laundry rooms, vending areas, loft/study areas, and space for
student recreation are available to students who live in the residential village. NKU can accommodate 2,000 students in on-campus housing. The Association of Campus Residents represents residential students to the Office of University Housing and to the Student Government Association. ACR serves as a sponsor of residential village events and reviews and recommends university policy changes.

Housing costs and a virtual tour of all housing room types are posted online (http://housing.nku.edu). One bill covers rent, utilities (electricity, water, and sewage), local phone service (Callahan Hall residents only), cable TV, and internet access. Students have the option to reside on campus for the academic year (fall and spring semesters), spring semester only, or during summer sessions.

**Meal Plans**

NKU Dining Services offers more than 15 dining locations and several meal plans to residential and commuter students. Residential students – except those living in Woodcrest Apartments and Northern Terrace rooms with full kitchens – are required to purchase a meal plan. Meal plans for residential students are purchased through the housing application process. Commuter students may purchase meal plans online (http://dineoncampus.com/nku). All students paying for food with “flex dollars” on their All Card will receive a dining discount. These flex dollars can be used in any dining facility on campus and receive the dining discount. Flex dollars can roll over from fall to spring semester. Students should purchase flex dollars on the website (http://allcard.nku.edu).
## International Admissions and Enrollment

**Office:** International Students and Scholars  
**Location:** University Center 305  
**Telephone:** 859-572-6517  
**Fax:** 859-572-6178  
**Email Address:** oiss@nku.edu  
**Web Address:** http://oiss.nku.edu  
**Director:** Samba Dieng  
**Other Key Personnel:**  
- Assistant Director of Immigration Services: Adam Widanski  
- International Academic Advisor: Samantha Muntis  
- Immigration Programs Advisor: Megan Lindle  
- Manager of International Admissions and Credential Evaluation: Jane Bratton  
- Specialist: Carmen Kirchgasser  
- Secretary: Sarah Iden

The Office of International Students and Scholars supports all prospective and current international students (non-immigrants). The Office issues the required documentation (Form I-20 and DS-2019) for all newly admitted undergraduate students, granting them the opportunity to apply for a student visa at a U.S. consulate or embassy abroad. The office handles all recruitment and admission of international undergraduate students including admission policies and standards. In addition, OISS offers various programs to educate students about American life and culture and expose the greater NKU community to international students on campus. Members of the office staff serve as advisors to the International Student Union, a group that sponsors an international dinner and fashion show each spring.

### Application Procedures

International students (all non-immigrants) should apply to the Office of International Students and Scholars at least four months before the beginning of the semester for which they wish to enroll. In general, applicants will be admitted only after they have documented that they have acceptable academic credentials. Students may be conditionally admitted to a degree program contingent upon submitting proof of English proficiency at a later date. Conditionally admitted students will remain in the American English Language Program or the Bridge program until a full-time course load is available (if necessary for visa status) and proof of English proficiency is submitted. International applicants are required to submit the following credentials:

1. International online application for undergraduate admission*  
2. A $40 nonrefundable application fee.  
3. Declaration and certification of finances  
4. Official or certified copies of transcripts of secondary coursework in the original language, appropriate certificates of examination (if applicable), AND certified English translations (if applicable).  
5. An official transcript from each college or university attended AND certified English translations if applicable.  

*Students wishing to apply for conditional admission through NKU’s American English Language Program should use the International online application for undergraduate international student admission.

The SAT exam may be required of students from certain countries depending on U.S. consulate procedures, the first language of the student’s home country and/or language proficiency. Those individuals will be so advised by the university or U.S. consulate.

<table>
<thead>
<tr>
<th>Country</th>
<th>For Fall Semester</th>
<th>For Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Students</td>
<td>Priority deadline: May 1</td>
<td>October 1</td>
</tr>
</tbody>
</table>

Summer term admission is typically not available for fully admitted international students who wish to take degree classes. If a transfer student must apply for summer admission because of immigration constraints, the student must contact the Office of International Students and Scholars.

### English Proficiency

English proficiency required for admission can be satisfied by any one of the following:

1. An official and satisfactory score from the Test of English as a Foreign Language taken within the last two years. The minimum TOEFL scores to be considered for admission are paper based of 500 or Internet-based of 61 (known as an iBT). Students interested in applying for a postbaccalaureate program must submit an iBT score of 79 or above.
2. Documentation of having satisfactorily completed “Freshman Composition I” at an American college in the U.S. and an overall acceptable GPA. Nonnative speakers of English may still be asked to take the TOEFL if it has been several years since taking the English courses or if the student has returned to his or her home country for several years since taking the course.
3. A satisfactory score on the verbal portion of the ACT or SAT taken within the last two years. The minimum scores to be considered for admission are an ACT of 18 or SAT of 430.
4. An official and satisfactory score from the International English Language Testing Service taken within the last two years. The minimum IELTS scores to be considered for admission must include a cumulative band of 5.5 and sub-scores in reading of 5.0 or better. Students interested in applying for a postbaccalaureate program must submit an IELTS score of 6.5 or above.
5. Successful completion of NKU’s American English Language Program with at least an 80% in each AELP class.

International students educated in countries where English is the primary language will be exempt from the English proficiency requirements. Please contact the Office of International Students and Scholars for a list of NKU approved countries where English is considered the primary language. International students from countries where English is considered the primary language are still required to take the SAT or ACT to be considered for admission. Some departments such as nursing may have selective admission requirements that do not accept COMPASS scores for admission purposes.

**NOTE:** Students wishing to declare pre-nursing as a major must obtain a minimum cumulative total TOEFL paper-based of 550, iBT of 79, or IELTS score of 6.5 unless exempted by another language proficiency standard as noted above. To be considered for admission to the nursing program, international students must submit a cumulative total iBT of at least 90. The paper-based TOEFL and the IELTS exams are not acceptable for admission to the nursing program. An interview with the program director may also be required.

### Placement Testing Requirements for International Students

Once admitted, all undergraduate international students (including transfer students) may be required to take one or more placement tests in order to...
International students who are admitted based on TOEFL or IELTS scores are not required to take English or reading placement tests, but may do so in an attempt to place into a college-level course. However, they are required to take a mathematics placement test unless they produce a transcript showing completion of the NKU equivalent of college-level mathematics.

All placement exams are administered by The Office of Testing Services at NKU. Each placement test can be taken only once. Students register for placement tests online (http://testing.nku.edu). Placement testing cannot be taken for admission purposes.

**Writing Placement Test**

New international students have the option to take a writing placement test before meeting with an academic advisor and before registering for any classes at NKU. Students will automatically be enrolled in English writing developmental courses based on either the results of their TOEFL or IELTS exam. Undergraduate international students may be exempt from enrolling in these English language developmental courses (such as "ENGI 099") if one of the following criteria are met at the time of admission:

1. A paper-based TOEFL score of 550, or internet-based (known as an iBT) of 79 or higher.
2. An IELTS cumulative total score of 6.5 or higher.
3. An SAT writing score of 430 or higher.
4. A transcript showing completion of the NKU equivalent of college writing from a nationally accredited U.S. college or university.
5. Proof of a U.S. bachelor’s degree from a nationally accredited U.S. college or university.

No transfer credit is given for English writing for any student who studied in a country where English is the official or primary language of instruction as determined by the Office of International Students and Scholars.

**Reading Placement Test**

The reading exam is not required unless the international student’s TOEFL reading sub-score is below 48 (paper-based), 14 (Internet-based) or an IELTS reading sub-score below 5.5. Reading comprehension is a critical component already assessed with the TOEFL and IELTS examinations. An exemption may be possible for any student with an eligible SAT or ACT on file at the time of admission. No transfer credit is given for English reading for any student who studied in a country where English is not the official or primary language as determined by the Office of International Students and Scholars.

**Mathematics Placement Test**

All international students without an eligible SAT or ACT score will be required to take the mathematics placement exam unless they receive transfer credit for mathematics. International students who submit ACT or SAT scores will be required to take the mathematics placement exam if their test scores fall below the CPE standards. See minimum scores on the testing and placement website (http://testing.nku.edu).

**Developmental Courses**

Generally, admitted international students with passing test scores on the TOEFL, IELTS or other NKU placement test will not be required to take any additional developmental literacy courses, but an individual department may request that the student do so. Students must enroll in all required developmental courses within the first two semesters of enrollment. Students must continue to enroll in developmental classes until they have passed all of the classes that the university requires them to take. Developmental courses do not contribute to the credits required for graduation and will not be calculated in the GPA.

**Developmental Literacy Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGI 099: Writing Workshop for International Students</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>RDG 091: Reading Workshop</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>RDG 110: Critical Reading</td>
<td>3 credits</td>
<td></td>
</tr>
</tbody>
</table>

**Developmental Mathematics Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAHD 090: Basic Mathematical Skills</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>MAHD 091: Elementary Geometry</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>MAHD 095: Essential Algebra</td>
<td>4 credits</td>
<td></td>
</tr>
<tr>
<td>MAHD 099: Intermediate Algebra</td>
<td>3 credits</td>
<td></td>
</tr>
</tbody>
</table>

**English Transfer Credit Policy for International Students**

Generally, international students are not permitted to receive English transfer credit or be considered for re-evaluation of English transfer credit for any English language courses taken prior to initial admission to NKU. English language coursework will be considered for transfer credit only if the student is from a country where English is the official language of instruction. Otherwise, there are no exceptions to this policy.

Every international student must enroll in "ENGI 099: Writing Workshop for International Students” during the student’s first semester of study at NKU unless otherwise exempted by meeting one of the following criteria:

2. An Internet-based TOEFL score above 79.
3. An IELTS score above 6.5.
4. Completion of the equivalence of “ENG 101: College Writing” at a regionally accredited U.S. university or college.
5. Passing score on the COMPASS placement test (given only once during the life of a student).

International students will not receive transfer credit or be exempt from taking "ENGI 099: Writing Workshop for International Students," "ENGI 080: Writing Lab for International Students," "ENG 101: College Writing," "ENG 201: Advanced College Writing," or any other English language course after initial admission to NKU. Articulation agreements do not include credit for English language coursework unless the university is located in a country where English is the official language. Please contact the Office of International Students and Scholars for a list of NKU-approved countries where English is the official language.
International Student Transfer Applicants

Students must submit certified English translations (if applicable) along with original foreign language transcripts for all university and/or postsecondary coursework completed overseas or in the U.S. Also, students must submit detailed course descriptions and/or syllabi of all completed coursework in order to be considered for transfer credit. This documentation, including the transfer credit evaluation form, must be received by the Office of International Students and Scholars within 30 days of the student’s acceptance to NKU and no later than 30 days after the start of the student’s first enrolled semester at NKU.

In addition, all students wishing to receive international transfer credit must submit certified copies of all postsecondary transcripts to an official evaluation company for a course-by-course evaluation of credentials. NKU only accepts evaluations from companies which hold active membership in the National Association of Credential Services (http://www.naces.org). OISS does not guarantee course equivalences but will work with departments to evaluate coursework as appropriate.

Students are required to submit all required credentials to be considered for admission, regardless of whether or not a student desires to receive consideration of transfer credit. Any student who fails to provide accurate and complete, certified copies of all educational credentials prior to being admitted to NKU may be dismissed from the university and/or denied transfer credit.

The first professional transcript evaluation submitted by a student will be evaluated for transfer credit. If a student later takes courses at another school, the coursework that has already been evaluated by NKU will not be re-evaluated; the additional courses will be evaluated separately. Credits from a university which has a standing articulation agreement with NKU will not be submitted for professional transcript evaluation.

Jubail Industrial College

NKU has established an agreement with Jubail Industrial College (JIC) in Saudi Arabia that provides a program of study indicating courses required to be completed at NKU for a bachelor’s degree in electronics engineering technology or mechanical and manufacturing engineering technology. JIC students must complete their associate degree in one of the above-mentioned fields in order to pursue this educational path. This agreement essentially provides a shorter path for students to complete a degree at NKU. JIC students must submit an application for admission and be accepted to NKU and adhere to all admission criteria and regular standards for transfer credit.

American English Language Program (AELP)

Location: University Center 300
Telephone: 859-572-6517
Fax: 859-572-6178
Email Address: aelp@nku.edu
Web Address: http://aelp.nku.edu
Director: David Gutmann (interim)

The American English Language Program is an intensive English program that serves to develop students’ reading, writing, listening, speaking, and grammar skills in order to participate successfully in university study or for personal growth. Emphasis is placed on acclimating students to American culture, campus life, and the local community. The primary goals of the program are: (1) students will achieve an advanced level of English proficiency to be successful in university undergraduate and graduate settings, and (2) students will be able to speak fluently on topics related to university study and engage in conversation using everyday English. AELP offers an intensive program (required of all F-1 or J-1 students) of 25 hours of instruction each week, a semi-intensive program of 15 hours of instruction each week, or a bridge program that allows students who have received the required exam score to take intensive English and university-level classes concurrently.

New sessions begin in the fall (August), spring (January), and summer (May) for a total duration of 15 weeks with the exception of the summer term which is eight weeks. All instructors have degrees and experience related to teaching English to international students. The application and additional information are available on the web (http://aelp.nku.edu).

Students seeking to enroll only in AELP must submit an AELP application and pay a $50 application fee. Students seeking conditional admission to NKU should apply to NKU using the regular international online application and follow the instructions outlined by the Office of International Students and Scholars for admission to NKU as an international student. Email inquiries may be sent to aelp@nku.edu.

To be considered for the bridge program, an intensive English program student should have a paper-based TOEFL score of at least 485, an Internet-based TOEFL score of at least 59, or a 5.0 on the International English Language Testing Service exam. The student must also have been enrolled in the intensive English program for at least one 16-week term and must have demonstrated good progress with conscientious preparation and regular attendance. Students must receive permission from the AELP director and the chair of the chosen academic department. Bridge students are limited to six semester credit hours of university-level coursework.

Undergraduate students who are unable to show proof of English proficiency may still apply and be conditionally admitted to a degree program at NKU. Conditionally admitted students must first enroll in the AELP and achieve a minimum passing score of 500 on the institutional TOEFL 5.5 on the IELTS (with minimum sub-scores of a 5 in reading and a 5 in writing), a 61 on the TOEFL iBT, or successful completion of level 6 of AELP with a minimum of 80% in each subject area.

NOTE: Students who achieve a paper-based TOEFL score below 550, internet-based TOEFL below 79 or an IELTS score below 6.5 will also be required to enroll in “ENGI 099: Writing Workshop for International Students” and “ENGI 080: Writing Lab for International Students” before moving into freshman composition (“ENG 101: College Writing”).

Admitted students who wish to be considered for an exemption from ENGI 099, may choose to take the NKU writing placement test during or before orientation. Students must receive a passing score on this writing placement test to be eligible for an exemption. Each placement test can be taken only once. Placement testing is for NKU admitted students only and cannot be taken for admission purposes to NKU. Students register for placement tests online (http://testing.nku.edu).

Exchange Students (Non-Immigrant J-1)

Location: University Center 330
Telephone: 859-572-6908
Email Address: perrya@nku.edu
Web Address: iec.nku.edu/studyabroad.html
Coordinator: Anne Perry

The Office of Education Abroad works in partnership with the Office of International Students and Scholars to receive a select group of exchange students each semester. OEA receives notification of an NKU exchange student from the student’s home institution, and these students typically arrive as J-1 exchange visitors. The Office of International Students and Scholars creates the required Form DS-2019 in SEVIS in order for the student
to arrive in the United States with a J-1 exchange visitor’s visa status. SEVIS reporting is managed by the OISS while orientation and programming is a joint effort of both OEA and OISS.

**Health Insurance Requirement for all F-1 and J-1 Students**

NKU requires all international students to maintain medical insurance that provides coverage in the U.S. and meets certain minimum benefit requirements. To ensure this, NKU will automatically enroll all NKU international students, scholars, and their dependents with F-1/F-2 and J-1/J-2 status in an international student health plan available through the university. Information about the international student health insurance plan is available through the Office of International Students and Scholars at 859-572-6517. Certain international students may be eligible to request a waiver by completing a waiver petition form and submitting it to the Office of International Students and Scholars. Students must submit a waiver petition form request every academic year to remain eligible for the waiver.
Tuition and Fees

Office: Student Account Services (formerly Bursar Operations)
Location: Lucas Administrative Center 235
Telephone: 859-572-5204
Fax: 859-572-6087
Email Address: studentaccountservices@nku.edu
Web Address: http://studentaccountservices.nku.edu
Director: Kim Graboskey
Other Key Personnel:
   - Associate Director: Jim Woll
   - Assistant Director: Brandon Billiter

The Office of Student Account Services is responsible for assessment and collection of student tuition and fees. Office hours are subject to change as necessary and are posted outside the office and on the Student Account Services website (http://studentaccountservices.nku.edu).

Because the complete tuition rates are not officially approved until after the catalog is finalized for publication, it is not possible to include the tuition schedule in this catalog. The information is available at the Student Account Services website, and students should review it carefully. Students should be certain to note that there are different tuition classifications:

1. Resident and nonresident rates.
2. Rates for full-time and part-time students.
3. Graduate and undergraduate rates.
4. A special undergraduate rate (Metro rate) for Ohio residents from certain counties (Adams, Brown, Butler, Champaign, Clark, Clermont, Clinton, Darke, Delaware, Fairfield, Fayette, Franklin, Greene, Hamilton, Highland, Licking, Madison, Miami, Montgomery, Pickaway, Pike, Preble, Scioto, Ross, Union, and Warren).
5. A special rate (Indiana rate) for undergraduate, degree-seeking students from selected counties in Indiana (Dearborn, Franklin, Jefferson, Ohio, Ripley, and Switzerland).
6. A special rate (Ohio Reciprocity) for undergraduate students who are working on an initial bachelor’s degree and meet the following three conditions:
   b. Have an associate degree from one of the following Ohio institutions: University of Cincinnati (including UC Blue Ash College and UC Clermont College), Cincinnati State Technical and Community College, Clark State Community College, or Southern State Community College.
   c. Have submitted all necessary credentials to the NKU Office of Undergraduate Admissions by appropriate deadlines (fall deadline is August 1, spring deadline is December 1, and summer deadline is May 1).

The following programs are excluded from this tuition program: early childhood education (birth-kindergarten), criminal justice, environmental science, and nursing.

Fees

Like the tuition schedule, the official fee schedule is approved too late to be included in the catalog. Information about fees is included on the Student Account Services website (http://studentaccountservices.nku.edu). Here is a list of some of the fees that students may encounter after enrolling at NKU:

1. Course fees – Course fees are charged for specific classes. Information about course fees is included in the schedule of classes (http://www.nku.edu/class_sched).

2. Late registration fee – Students registering as of the first day of the term will be assessed a late registration fee.
3. NKU installment plan enrollment fee – Students not paid in full by the original due date of the semester will automatically be enrolled in the NKU installment plan and charged a $50 payment plan enrollment fee for participating in the installment plan.
4. Account maintenance fees – Any outstanding balances at the end of each month will be assessed a 1.25 percent account maintenance fee.
5. Returned check fee – Students whose checks are returned to the Student Account Services office as unpaid will be charged a fee.
6. Graduation fee – Students are charged a fee at the time they apply to graduate.
7. Campus recreation fee – All students are charged an additional, per credit hour student recreation center fee as approved by Student Government Association and NKU’s Board of Regents.

Account Statements

Account statements are sent ONLY to the student’s NKU email address. Account statements are not sent via the U.S. Postal Service. They are sent once a month. Students should be sure to regularly check their NKU email accounts. Failure to read the email statement does not relieve the student of the financial obligation to the university.

Payment Methods

1. Online via myNKU – Biller Direct Tab
   - E-check payments (no fee) and credit cards (VISA, Master Card, AMEX and Discover) accepted (2.5% service fee).

2. By Mail – Student Account Services, AC 235 Nunn Drive, Highland Heights, KY 41099.
3. In Person – The office is located on the second floor of the Lucas Administrative Center.

Nonpayment Policy

To avoid course cancellation for nonpayment, minimum payment criteria must be met by the date specified to the student. Minimum payment criteria include either:

1. Full payment by cash, check, credit card, or financial aid by NKU’s established tuition due date (typically the first day of classes).
2. OR
3. Inclusion in the NKU installment plan.

NKU Installment Plan

Students who do not pay their bill in full by the original tuition due date will automatically be placed into the NKU installment plan. Students entering the installment plan will be charged a payment plan enrollment fee of $50 and will be assessed a 1.25 percent account maintenance fee each month. Payments are due according to the following schedule:

1. 50 percent of the full balance is due on the original tuition due date.
2. An additional 25 percent is due 30 days after the start of the semester, bringing the total paid to 75 percent of the bill.
3. The balance is due 60 days after the initial due date. Accounts must be paid in full by the close of business on that day.
Cancellation of Classes for Nonpayment

Students enrolled in the NKU installment plan who do not pay 50 percent of their total charges will be at risk for cancellation of their classes for nonpayment. Minimum payment criteria must be met by the due dates to avoid course cancellation for nonpayment. Students who have their classes cancelled as a result of nonpayment are still responsible for 50 percent of their original bill.

Students who register and later change their plans for attendance should not rely on the cancellation for nonpayment or cancellation for nonattendance processes to complete administrative drops for them. Those who no longer wish to be enrolled must drop their courses via myNKU and officially withdraw for accurate determination of any financial obligation to the university.

Past Due Notices

Any student whose bill is not paid before the 20th of the month will be sent a past-due notice to his or her NKU email address. Any student who continues to remain unpaid by the fourth notice will receive the final warning letter at the student’s standard address on file with the registrar as well as at his or her NKU email address. This is the final warning to a student before the account is turned over to a professional collection agency. Students should make necessary financial arrangements with the Student Account Services office before an account is turned over to a collection agency because additional fees are incurred once the account is turned over for collection.

Refunds

7-Day Hold

All refunds are subject to a 7-day hold before disbursement. This period is used to ensure that funds have been received by the university, allow for adjustments, and ensure accuracy of the refund being disbursed. Students who fail to receive a refund within seven days should call the Student Account Services office at 859-572-5204.

Refund Calculations

A reimbursement of some or all tuition depends on when a student drops a class, or several classes, and whether the student adds other classes. Refunds are calculated based on the number of financially equivalent hours, not academic hours. This means that a student who drops and adds the same number of credits does not necessarily end up with the same tuition bill as he or she would have gotten for the initial set of courses. For example, if a student originally had 15 credit hours and dropped 5 credit hours during the 50 percent tuition adjustment period, the student would be charged for 12.5 hours (15 credits less half of 5 credits = 12.5 credits). If the student added five credits at the same time, the student would be charged for 17.5 hours. The formula to determine financial equivalent hours follows:

\[ \text{Previous academic hours} - \text{(dropped hours } \times \text{ tuition adjustment percent)} + \text{added hours} = \text{financial equivalent hours charged.} \]

To determine refund eligibility, calculate:

\[ \text{New tuition charge} - \text{previous tuition charge} = \text{difference.} \]

If the difference is negative, the student is due a refund; if the difference is positive, the student owes money to the university.

Direct Deposit

Students must sign up for direct deposit to receive refunds. At myNKU, go to Biller Direct, select the direct deposit tab, and enter bank information. Full, detailed instructions are available on the Student Account Services website. Direct deposit refunds are created daily.

Form 1098-T

The Form 1098-T will be available online by January 31 via the student’s myNKU and will not be mailed.

Donovan Scholars

The Herman L. Donovan Fellowship for Older Adults program allows Kentucky residents 65 years of age or older to pursue credit-bearing coursework at NKU for a degree or for personal enrichment without payment of application fees or tuition. Donovan scholars are responsible for books, supplies, course fees, parking, and applicable taxes. Noncredit courses are not included in this benefit. Upon applying for admission, students must submit proof of age. The tuition award is posted to the student’s account by the Office of Student Financial Assistance. Prospective Donovan scholars should follow the requirements and due dates for freshmen or transfer students, depending upon whether they are just beginning their college career or have transfer credit.

Corporate Tuition Payment for Employed Students

Many employers provide tuition benefits to their employees. Students should contact their company’s personnel office and request information on tuition benefits.

Tuition Rates for Dually-Enrolled Students

Students who are dually enrolled as both graduate and undergraduate will be charged for undergraduate courses as though the student is an undergraduate student and for graduate courses as though the student is a graduate student. The flat tuition rate available to undergraduate students is not applicable to credits associated with non-undergraduate courses.

Law students who are dually enrolled in any non-Law course at the undergraduate or graduate levels will be charged at the appropriate level they enroll in; either undergraduate or graduate. The flat tuition rate available to Law students is not applicable to credits associated with non-Law courses.

Financial Audit

Tuition and fee assessments are subject to audit at any time throughout the academic career of the student. If an account is audited, it may result in the student owing the university more money, or it may result in the student receiving a refund, depending on the outcome of the audit.

Financial Assistance

Approved financial assistance is applied directly to a student’s account. If the assistance is not showing, the student should contact the Office of Student Financial Assistance at 859-572-5143 or toll free at 888-225-4499. Students receiving financial aid may obtain a temporary deferment of their financial obligation if the financial aid process is complete (that is, estimated aid is viewable on the student’s account and covers the entire account balance owed). At the time financial aid checks are distributed, the Student Account Services office will deduct any balance due the university. Students who fail to have their financial aid in estimate status and viewable on the student’s myNKU account when the semester begins will be responsible for paying their bill and will later receive their financial aid as a reimbursement.

Third-Party Billing

In order to have tuition and fees paid by a third party, a written authorization must be received by the Student Account Services office and approved prior
to the tuition due date each semester. If authorization is not received, the student will be required to make the full payment by the due date.

**Note:** Changes to the student’s schedule may affect the authorized payment amount. A student should contact the Student Account Services office immediately if changes to the schedule affect the tuition and fees charged.

**Veterans’ Benefits**

Students eligible for veterans’ educational benefits should contact the veterans’ services coordinator in Lucas Administrative Center 301 or at 859-572-7609 prior to registration.

**Official Withdrawal from the University**

When a student determines that he or she will NOT be attending NKU for the upcoming semester, the student must drop all of his or her classes through the myNKU portal adhering to all academic calendar deadlines.

**IF THE STUDENT DOES NOT OFFICIALLY WITHDRAW FROM THE UNIVERSITY, THE STUDENT MAY BE HELD RESPONSIBLE FOR ALL TUITION AND FEES AND MAY ALSO RECEIVE FAILING GRADES FOR COURSES IN WHICH THE STUDENT IS CURRENTLY REGISTERED.**

**Financial Aid and Scholarships**

- **Location:** Lucas Administrative Center 301
- **Telephone:** 859-572-5143
- **Fax:** 859-572-6997
- **Email Address:** ofa@nku.edu
- **Web Address:** http://financialaid.nku.edu
- **Director:** Leah Stewart
- **Other Key Personnel:**
  - Associate Director: Penny Parsons
  - Assistant Director: Dyane Foltz

The Office of Student Financial Assistance creates clear pathways for students and parents to apply for and receive financial aid. Staff will employ creative and innovative approaches to provide personalized service to both current and prospective students as financial aid options are explored. The office staff continually strive to exceed the expectations of those they serve.

**Financial Aid Application (FAFSA)**

Students apply for federal, state, and institutional aid programs by completing the FAFSA (http://fafsa.gov). Students are encouraged to complete the FAFSA online. The FAFSA is available January 1 of every year.

To be considered for aid for the academic year or for fall semester only, the FAFSA should be submitted by February 1. Applications submitted after the priority date will be considered if funds are available.

**FAFSA Priority Dates**

- **FAFSA available:** January 1
- **FAFSA Fall Semester Priority Date:** February 1
- **FAFSA Spring Semester Priority Date:** November 1
- **FAFSA Summer Priority Date:** February 1

*Students who wish to apply for a summer term should contact the NKU Office of Student Financial Assistance.

**Scholarships**

Scholarships are awarded on the basis of academic excellence or artistic talent. Freshman students who wish to be considered for scholarships must complete the admissions application requirements by January 15. The scholarship application deadline for current students is March 15 for the next academic year.

NKU provides scholarships to new freshmen and transfer students as well as current students. For a complete listing of all undergraduate scholarships, view the online scholarship listing (http://scholarships.nku.edu).

Many scholarships are renewable for additional years provided students meet specific requirements. Students should refer to the web for renewal requirements and for a full scholarship listing.

**Freshman Scholarships**

<table>
<thead>
<tr>
<th>SCHOLARSHIP</th>
<th>GUIDELINES</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distinguished Scholarship</td>
<td>3.75+ GPA 33+ ACT or 1400+ SAT*</td>
<td>Full tuition, room and board And $2,000 Study Abroad award</td>
</tr>
<tr>
<td>Presidential Scholarship</td>
<td>3.75+ GPA 31+ ACT or 1380+ SAT*</td>
<td>Full tuition</td>
</tr>
<tr>
<td>Governor's Scholar Award</td>
<td>3.0+ GPA 24+ ACT or 1090+ SAT*</td>
<td>In-state tuition</td>
</tr>
<tr>
<td></td>
<td>Kentucky Governor’s Scholar Program participant</td>
<td></td>
</tr>
<tr>
<td>Excellence Scholarship</td>
<td>3.5+ GPA 29+ ACT or 1290+ SAT*</td>
<td>$7,000 tuition</td>
</tr>
<tr>
<td></td>
<td>3.25+ GPA 26+ ACT or 1170+ SAT*</td>
<td>$5,000 tuition</td>
</tr>
<tr>
<td></td>
<td>3.25+ GPA 25+ ACT or 1130+ SAT*</td>
<td>$3,000 tuition</td>
</tr>
<tr>
<td>Commonwealth Excellence Scholarship</td>
<td>3.25+ GPA 24+ ACT or 1090+ SAT*</td>
<td>$2,000 tuition</td>
</tr>
<tr>
<td>Informatics Scholarship</td>
<td>3.0+ GPA 26+ACT or 1170+SAT* Declared major in business informatics, computer science, computer information technology, data science, or media informatics</td>
<td>$5,000 tuition</td>
</tr>
<tr>
<td>Achiever's Award **</td>
<td>3.0+ GPA 23+ ACT or 1050+ SAT*</td>
<td>Up to $5,000 tuition (in-state residents) $4,000 tuition (out-of-state residents)</td>
</tr>
</tbody>
</table>
There are various types of financial aid that can be viewed on the financial aid website. For additional information concerning the financial aid process, prospective and current students should contact the Office of Student Financial Assistance or visit the website (http://financialaid.nku.edu). The chart below lists various types of aid that are in addition to the scholarship opportunities listed elsewhere in this section.

Note: The information in this chart is current as of the date of this publication. Information could be subject to change based on federal, state or institutional adjustments.

### Types of Financial Aid

<table>
<thead>
<tr>
<th>TYPE OF FINANCIAL AID</th>
<th>ANNUAL AMOUNT (Based on full time enrollment)</th>
<th>REPAYMENT REQUIRED?</th>
<th>REQUIRED APPLICATION</th>
<th>PRIORITY DEADLINE</th>
<th>SUPPLEMENTAL INFORMATION</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Pell Grant</td>
<td>Up to $5,775</td>
<td>NO</td>
<td>FAFSA</td>
<td>February 1</td>
<td></td>
<td>A federally-funded gift aid program for eligible students with financial need as determined by the FAFSA.</td>
</tr>
<tr>
<td>Scholarship Program</td>
<td>Award Amount</td>
<td>FAFSA</td>
<td>Eligibility</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------------------------------------------------</td>
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<td>------------------------------------------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Supplemental Educational Opportunity Grant</td>
<td>Up to $2,000</td>
<td>NO</td>
<td>Eligible students must be Pell Grant eligible, with exceptional financial need as determined by the FAFSA.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KHEAA CAP Grant</td>
<td>Up to $1,900</td>
<td>NO</td>
<td>Eligible students must be Kentucky residents and must be Pell Grant eligible.</td>
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<tr>
<td>Kentucky Educational Excellence Scholarship (KEES)</td>
<td>Varies depending upon high school GPA and ACT or SAT scores</td>
<td>NO</td>
<td>Eligible students must be Kentucky residents who graduated from Kentucky high schools and are attending postsecondary schools in Kentucky.</td>
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<tr>
<td>Regional Tuition Award (RTA)</td>
<td>Difference in amount between Non-Resident and Metro undergraduate tuition rates</td>
<td>NO</td>
<td>Current students enrolled at NKU that meet these requirements will be grandfathered beginning Fall 2014.</td>
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</tr>
<tr>
<td>Strive Northern Kentucky University Promise Program</td>
<td>Varies, up to cost of attendance</td>
<td>NO</td>
<td>A need-based grant program targeted to students who are graduates of Holmes, Holy Cross, Newport, Covington Latin or Newport Central Catholic high schools. Students must be full time, Pell Grant eligible and must maintain a 2.5 GPA.</td>
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<tr>
<td>Northern Difference Grant</td>
<td>Varies, up to cost of attendance</td>
<td>NO</td>
<td>A need-based grant program created for Kentucky residents whose family income falls at or below 150 percent of the national poverty level. Students must be full time, Pell Grant eligible and must maintain a 2.5 GPA.</td>
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<tr>
<td>In-State Freshman Grant</td>
<td>Up to $1,500</td>
<td>NO</td>
<td>A need-based grant program for first-time freshmen who are charged the resident tuition rate. Students must be Pell Grant eligible.</td>
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<tr>
<td>In-State Sophomore Grant</td>
<td>Up to $1,500</td>
<td>NO</td>
<td>A need-based grant program for first-time sophomores who are charged the resident tuition rate. Students must be Pell Grant eligible.</td>
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<tr>
<td>Out-of-State Freshman Grant</td>
<td>Up to $1,500</td>
<td>NO</td>
<td>A need-based grant program for first-time freshmen who are charged the metro, Indiana or nonresident tuition rates. Students must be Pell Grant eligible.</td>
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</tr>
<tr>
<td>Out-of-State Sophomore Grant</td>
<td>Up to $1,500</td>
<td>NO</td>
<td>A need-based grant program for first-time sophomores who are charged the metro, Indiana or nonresident tuition rates. Students must be Pell Grant eligible.</td>
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</tr>
<tr>
<td>Kentucky War Veterans’ Dependents Scholarship</td>
<td>Full tuition</td>
<td>NO</td>
<td>To determine eligibility, contact the Kentucky Department for Veterans Affairs at 502-595-4447.</td>
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</tr>
<tr>
<td>Federal College Work-Study Employment</td>
<td>Varies with needs/hours worked</td>
<td>NO</td>
<td>Employment under this federally funded program is restricted to students with demonstrated financial need. Undergraduate and graduate students who are eligible for consideration for FWS must be enrolled for at least six semester credit hours. This money does not apply directly toward tuition.</td>
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</tbody>
</table>
Institutional Work-Study Employment | Varies with hours worked | NO | None | An NKU program designed for students who want to work on campus but who do not qualify for the federal employment program.

Federal Perkins Loan | Up to $3,000 | YES | FAFSA February 1 | This is a campus-based loan with a five percent interest rate. Students must have junior or senior status.

Federal Direct Subsidized Loan | Up to $3,500 for the first year of undergraduate study; $4,500 for the second year of study; $5,500 for the third and fourth years of study | YES | FAFSA February 1 | Master Promissory Note & Entrance Counseling | Payment deferred until six months after student graduates or is no longer enrolled in at least six semester credit hours.

Federal Direct Unsubsidized Loan | Same as subsidized, plus dependent students may borrow an additional $2,000 per academic year and independent students may borrow an additional amount up to $6,000 for the first or second year of undergraduate study, $7,000 for the third or fourth year of undergraduate study | YES | FAFSA February 1 | Master Promissory Note & Entrance Counseling | Payment deferred until six months after student graduates or is no longer enrolled in at least six semester credit hours.

Federal Direct PLUS Loan | Up to the cost of attendance minus other financial aid | YES | FAFSA February 1 | PLUS loan authorization form | Parent of dependent students may borrow this loan and is responsible for repayment.

Financial Support Options Specifically for Transfer Students

Transfer students who meet certain criteria may be eligible for awards or benefits to assist with covering their educational costs at NKU.

KCTCS Scholars Award

This scholarship is only for students transferring from the Kentucky Community and Technical College System. To be considered for the KCTCS Scholar Award that pays $2,500 annually ($1,250 per fall and $1,250 per spring semester), a student must:

1. Be a legal Kentucky resident.
2. Meet the deadline for the scholarship application. The website (http://transfer.nku.edu) provides access to the scholarship application and gives the deadline date for application.
3. Have completed a minimum of 36 semester credit hours at a KCTCS school.
4. Have attended a KCTCS institution as the last school attended.
5. Have earned a minimum 3.0 cumulative GPA.
6. Be eligible for regular admission to an undergraduate bachelor’s degree program at NKU with no further remediation required.
7. Be academically eligible to return to the prior institution.
8. Remain in good academic standing at NKU as defined by the satisfactory academic progress guidelines used for financial aid eligibility.
9. Not have been enrolled previously as a degree-seeking student at NKU.
10. Transfer into fall or spring semester of school year.
11. Enroll in a minimum of 12 credit hours in the fall and spring semesters.

Note: Students seeking postbaccalaureate credit hours or a second bachelor’s degree are not eligible.

Ohio Tuition Reciprocity

NKU has an undergraduate tuition reciprocity agreement with the University of Cincinnati, Cincinnati State Technical and Community College, Southern State Community College and Clark State Community College. This agreement extends reciprocity tuition rates to residents of certain Ohio counties who meet the program/residency requirements. To qualify, students must:

2. Have earned an associate degree from the University of Cincinnati (including UC Blue Ash College, UC Clermont College), Cincinnati State Technical and Community College, Southern State Community College, or Clark State Community College.

3. Be working toward a first bachelor’s degree at NKU and not majoring in one of the ineligible programs (criminal justice, early childhood education, environmental science or nursing).

Students who wish to be considered for this tuition reciprocity rate must submit a final transcript and all necessary credentials indicating that an associate degree has been earned by August 1 for fall semester, December 1 for spring semester, or May 1 for summer semester. This agreement and rate is subject to change or can be discontinued at any time.

Nonresident Transfer Award
This award is only for students transferring to NKU who live out of state, i.e., do not live in the state of Kentucky. To qualify for this $2,000 award ($1,000 per fall and spring semester only), a student must:

1. Be admitted to NKU by the following dates: August 1 for fall semester or December 1 for spring semester.
2. Receive a final transfer evaluation of at least 60 semester credit hours or 90 quarter hours; that is, equal to or greater than junior status from a regionally accredited institution(s).
3. Be academically eligible to return to the institution previously attended and have earned a minimum 2.0 cumulative GPA.
4. Be admitted to an undergraduate bachelor’s degree program at NKU with no restrictions or academic deficiencies (a student is not eligible if the student has previously enrolled at NKU as a non-degree, degree-seeking, or consortium student).
5. Enroll in a minimum of 12 semester credit hours in both fall and spring semesters.
6. Be a resident of any U.S. state except Kentucky or be an international student.

Students are not eligible for the nonresident transfer award if any of the following apply:

1. They are receiving Ohio tuition reciprocity or the Indiana tuition rate.
2. They are admitted to any PACE or online programs.
3. They have already earned a bachelor’s degree.

An application is not required to receive this award. Awards are not tuition based and are awarded after tuition due dates.

Additional Scholarship Opportunities for Transfer Students
Other scholarship opportunities for transfer students are available online (http://financialaid.nku.edu/scholarships.html).

Student Employment
Students may elect to work to assist with meeting educational costs and living expenses.

NKU administers the federal work-study program and an institutional student employment program. NKU administers these programs in accordance with the laws, federal and state regulations, and instructions issued by or on behalf of the Department of Education as well as its own institutional policies. The federal work-study program provides funds for students with financial need as determined by the FAFSA. These funds are earned through part-time employment and assist in financing the cost of postsecondary education.

Student workers must be enrolled for at least six credit hours during the fall and spring semesters. U.S. citizens are allowed to work a maximum of 25 hours per week during the academic year and a maximum of 35 hours per week during the summer session. For summer employment, the student must have been enrolled in the previous spring or intend to enroll for the upcoming fall semester. International students are allowed to work a maximum of 20 hours per week during the academic year and must be enrolled for 12 hours per semester.

Cost of Attendance
The federal government requires that the Office of Student Financial Assistance establish an annual cost of attendance. The COA includes tuition, room and board, books, transportation, and miscellaneous expenses. The COA differs based on a student’s residency (Kentucky resident or nonresident). The COA also differs based on whether it is for an undergraduate, graduate, or law program. The COA can be prorated depending on the length of the term. Those with questions regarding a student’s COA should contact the Office of Student Financial Assistance.

Satisfactory Academic Progress
This policy will be used to determine eligibility for aid for the 2015-16 academic year. This policy is current as of the date of this publication and could be subject to change due to federal, state or institutional adjustments. Students should always review the policy on our website (http://financialaid.nku.edu) or contact our office for the most current information.

Federal regulations mandate that all students make satisfactory, measurable academic progress toward completion of a degree in order to receive federal assistance through Title IV federal grant, work, and loan programs.

First time freshman, new transfer students and new postbaccalaureate students are automatically considered to be making satisfactory academic progress during their first academic year. These students will be subject to the standards of satisfactory academic progress at the end of their first academic year and thereafter. An academic year is defined as August to May.

1. NKU’s SAP standards comply with the requirements of the U.S. Department of Education.
2. These are financial aid standards only and do not replace or override NKU academic policies.
3. Academic progress will be reviewed at the end of each spring semester. For current students, satisfactory academic progress is usually determined in early June. Students who are not meeting academic progress requirements will be notified by mail.
4. The academic progress of financial aid applicants will be reviewed as NKU receives FAFSA data.
5. It is the student’s responsibility to stay informed of the university’s SAP standards and policy.

The academic progress of students will be reviewed for

a. qualitative progress (GPA),

b. quantitative progress (pace of completion), and
c. maximum time frame for degree completion.

Students must maintain satisfactory progress in all three areas whether or not they have received financial aid in the past.

Qualitative Progress (GPA)

1. Students whose academic standing is academic warning, academic probation, or suspension are not considered to be meeting the qualitative (GPA) standards of academic progress.

2. The following chart summarizes the minimum GPA required to be considered to be in good academic standing:

<table>
<thead>
<tr>
<th>DEGREE PROGRAM</th>
<th>MINIMUM ACCEPTABLE CUMULATIVE GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate student with 0-15 quality hours</td>
<td>1.66</td>
</tr>
<tr>
<td>Undergraduate students</td>
<td>2.0</td>
</tr>
</tbody>
</table>
Quantitative Progress (Pace of Completion)
Students must earn at least 67 percent of the total number of cumulative credit hours they have attempted. This includes all NKU coursework, remedial courses and transfer credits. Examples are below:

Student #1: Total Official Attempted Credit Hours: 84
Total Official Earned Credit Hours: 39
39/84 = 46%
This student has failed the quantitative (pace of completion) standard.

Student #2: Total Official Attempted Credit Hours: 54
Total Official Earned Credit Hours: 42
42/54 = 77%
This student has passed the quantitative (pace of completion) standard.

NOTE: Percentages are not rounded up. For example, a student who has earned 66.66 percent of their hours attempted is not considered to be meeting the quantitative (pace of completion) standard of academic progress.

Maximum Time Frame for Degree Completion
1. Students are expected to earn a bachelor’s degree before
   a. 180 credit hours are attempted.
   b. 150 percent of the hours required for completion are exceeded, if the degree requires considerably more than 120 hours to complete, as described in the catalog.
2. Students are expected to earn an associate degree before 90 credit hours are attempted.
3. The allowed time frame does not increase if you change your major, pursue double majors, or pursue an additional degree. However, students may appeal if they have experienced unusual or mitigating circumstances that prohibited them from meeting these standards.

Important Notes
1. Classes for which students receive grades of T (audit), F, NR (grade not reported), X, I, I+ or W/withdrawal) are not counted as earned hours. Incomplete coursework and deferred grades are not considered earned hours.
2. Remedial courses are counted as hours attempted and earned but are not factored into the GPA component of satisfactory academic progress. Therefore, they are subject only to the qualitative (pace of completion) measure of SAP.
3. Change of major and students who work toward an additional degree are subject to both the qualitative (GPA) and quantitative (pace of completion) measures of SAP.
4. Transfer hours are counted as both hours attempted and hours earned.
5. Hours included in academic renewal are counted as attempted hours.

Course Repetitions
1. When a student repeats a course, the last grade prevails and the original grade is removed from the GPA computation.
2. A repeated course may only count toward enrollment status if the student is receiving credit for that course. If it does not count toward enrollment status, the student will not receive financial aid for that course.
3. For financial aid purposes, a student may only repeat a course once if he/she has previously passed the course. If a student repeats a course more than once that he/she has previously passed, the student cannot receive aid for that course.

Re-establishing Financial Aid Eligibility
1. A student ineligible to receive financial aid for failure to meet the standards of satisfactory academic progress may re-establish his/her eligibility by enrolling at his or her own expense in a subsequent term and meeting the standards according to the qualitative (GPA) and quantitative (pace of completion) measures.
2. If a student was denied financial aid because he/she did not meet the minimum GPA standard but has taken courses to bring his/her GPA up to the minimum, the student should contact the Office of Student Financial Assistance. The student’s record will then be evaluated to determine if he/she is meeting the pace of completion requirement. If the student is meeting all three components of academic progress, the student’s aid may be reinstated.
3. If a student was denied financial aid because he/she did not earn at least 67 percent of the total hours attempted due to incomplete grades, and now grades have been recorded for those hours to meet the quantitative (pace of completion) progress standard, the student should contact the Office of Student Financial Assistance to have his/her aid eligibility re-evaluated.
4. If a student initially failed to meet the standards of academic progress but is now meeting the standards due to grade changes or the granting of academic renewal, the student should contact the Office of Student Financial Assistance to have his/her aid eligibility re-evaluated.

Appeals
1. If a student failed to meet the academic progress standards due to his/her injury or illness, the death of a relative, or other special circumstances, he/she may submit a written appeal if the student’s extraordinary circumstances have been resolved. Students should not and may not base their appeal on their need for financial aid or their lack of knowledge that their financial aid was in jeopardy.
2. Students may appeal once per academic year.
3. The appeal decision by the committee is final.
4. If it is mathematically impossible for a student to achieve a cumulative GPA of at least 1.8 after one semester, a student’s appeal will automatically be denied.
   a. For undergraduates, this determination will be made based on the assumption of full-time enrollment (12 hours) and a 4.0 term GPA for one semester.
5. If it is mathematically impossible for a student to achieve a cumulative pace of completion of at least 67 percent after one academic year, the student’s appeal cannot be approved and will automatically be denied.
   a. This determination will be made based on the assumption of full-time enrollment (12 hours) for both fall and spring semester (total of 24 hours).
6. The Student Financial Aid Appeals Committee will review appeal requests and may grant approval for the following reasons:
   a. The death of a relative of the student.
   b. The personal injury or illness of the student.
   c. Special circumstances as determined by the institution.
7. The committee meets twice a month during June, July, and August and at least once a month during September, December, and January.
8. Appeals must include:
   a. A letter written by the student that clearly states the extraordinary circumstances that may have adversely impacted the student’s academic performance. The appeal must indicate why the student failed to make satisfactory academic progress and what has changed that will allow the student to make satisfactory progress at the next evaluation. Supporting documentation is also required. Appeals submitted without supporting documentation will not be accepted and will not be submitted to the appeals committee.
   b. Documentation to support all extenuating and/or unusual circumstance detailed in the letter. Note that documentation will not
be returned; students must keep a copy for their records. NKU will not contact anyone to obtain information for an appeal.

c. Examples of supporting documentation include copies of obituaries, documentation issued by a physician or hospital, police records, or other documentation provided by a third party professional.

d. A student may submit a statement from his/her academic advisor, dean, or department chair, if the student feels it is appropriate.

e. If a student is appealing due to maximum timeframe, the student must include the Maximum Timeframe Academic Plan Worksheet in addition to supporting documentation.

f. Appeals may be approved or denied. Students will be notified of the results of their appeal. If a student’s appeal is approved, the student will be placed on financial aid probation and will be required to follow an academic plan for the academic year (two semesters) based on the following:

1. If an undergraduate student failed to make academic progress because he/she did not meet the minimum GPA, the student must have a cumulative GPA of 2.0 after completing two semesters. A student who does not have a cumulative GPA of at least 1.8 at the end of the first semester of financial aid probation cannot receive aid for the second semester.

2. If a student failed to make academic progress because he/she did not meet the quantitative (pace of completion) standard, the student will be required to earn 67 percent of their hours attempted for each of the two semesters. If a student does not earn 67 percent of the credit hours attempted during the first semester of financial aid probation, he/she cannot receive aid for the second semester. Percentages are not rounded up.

3. If a student failed to make academic progress because he/she is exceeding the maximum timeframe, the student must complete the number of hours required per semester, as indicated on the Maximum Timeframe Academic Plan worksheet. If the student fails to meet the academic plan as outlined, the student will no longer be eligible to receive federal financial aid. Students must meet the academic plan requirements each semester in order to continue to be eligible to receive federal aid.

4. A student may not submit an appeal if he/she fails to meet the requirements of the academic plan.

5. Appeals must be received and reviewed before or during the term for which the student is requesting aid. Any appeal received after the last day of the term will be considered for the next term for which the student enrolls. Appeal decisions are not retroactive.

6. Appeals decisions are applicable for one academic year only and do not carry over to a future academic year if the student does not enroll during the academic year for which their appeal was reviewed.

Summer Sessions

1. Financial aid recipients have a conditional period of the summer session after the spring semester. This allows students a chance to bring up their GPA or to meet the quantitative (pace of completion) progress standard. If a student previously not meeting the academic progress standards meets the academic progress standards after completing courses during the summer session, the student’s financial aid may be reinstated. Students should contact the Office of Student Financial Assistance to have his/her aid eligibility re-evaluated.

2. If a student submits an appeal for the summer session and the appeal is approved, the student must then be meeting the standards of academic progress at the conclusion of the summer session in order to be eligible for aid for future years. Students who appeal for the summer session are not able to be placed on an academic plan.

How Withdrawing from Classes Affects Financial Aid

Withdrawing from classes could result in loss of or return of a student’s financial assistance.

Nonattendance Policy

Students who do not attend their classes are subject to being dropped by their instructors for nonattendance. As a result, these students may lose part or all of their financial assistance. Any remaining balance must be repaid before the student can receive further financial assistance.

Return of Funds Due to Withdrawal

If a student completely withdraws from the university either voluntarily or involuntarily during a semester, a portion of the federal Title IV aid disbursed to the student must be returned to the financial aid programs. The percentage of Title IV aid required to be returned is based on the percentage of time remaining in the semester as of the student’s date of withdrawal. This percentage is equal to the number of calendar days remaining in the semester divided by the total number of calendar days in the semester. Scheduled breaks of more than four consecutive days are excluded from this calculation.

Example: A student who remains enrolled for 10 percent of the total Title IV aid disbursed to him or her. The balance (90 percent) must be returned to the Title IV program(s).

Note: No Title IV aid funds are required to be returned if the student remains enrolled for more than 60 percent of the semester.

The date of withdrawal is the date a student officially notifies the NKU Registrar’s office of his or her intent to completely withdraw from school. If a student unofficially withdraws from school, the Office of Student Financial Assistance will use the midpoint of the semester to establish the student’s date of withdrawal.

At the time a student withdraws, the Student Account Services office will automatically use all or a portion of the student’s “institutional refund” as payment toward the amount that must be returned to the Title IV programs. The student may also be required to repay a portion of the aid funds that were directly disbursed to him or her in the form of a residual check. The student will be notified and billed for any grant funds that must be repaid immediately.

Failure to pay will result in a HOLD being placed on the student’s account, and the student will not be allowed to register for classes, obtain grades, or obtain an academic transcript. Student loan funds are to be repaid in accordance with the terms of the loan.

Funds will be returned first to the Title IV loan programs and then the Title IV grant programs in the following order:

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<tbody>
<tr>
<td>1</td>
<td>Federal Unsubsidized Direct Loan</td>
</tr>
<tr>
<td>2</td>
<td>Federal Subsidized Direct Loan</td>
</tr>
<tr>
<td>3</td>
<td>Federal Perkins Loan</td>
</tr>
<tr>
<td>4</td>
<td>Federal PLUS Loan</td>
</tr>
<tr>
<td>5</td>
<td>Federal Pell Grant</td>
</tr>
<tr>
<td>6</td>
<td>Federal Supplemental Educational Opportunity Grant</td>
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</tbody>
</table>

Funds are not required to be returned to the federal work-study program.

Post-Withdrawal Disbursement of Title IV Aid: The Office of Student Financial Assistance will determine if a student is eligible to receive Title IV funds that were awarded but not yet disbursed to the student at the time of his or her withdrawal from school. If the student is eligible for a post-withdrawal disbursement, the Office of Student Financial Assistance will first apply these funds to the student’s outstanding university charges (if
Worksheets used to determine the amount of refund or return of Title IV aid are available upon request from the Office of Student Financial Assistance.

Return of Funds Due to Unofficial Withdrawal
Federal financial aid recipients who fail to receive any passing grades in a semester are subject to federal regulations titled Return of Title IV Funds. These students are considered unofficially withdrawn as of the midpoint of the semester. Without acceptable proof of attendance or participation in an academic related activity beyond the 60 percent point of the semester, the federal Title IV financial aid credited for the term is refunded to the aid program(s) from which it came at the rate of 50 percent of university charges. Loans are refunded before grants. For example, a student with a $3,500 Federal Direct Subsidized Loan and a $2,000 Pell Grant fails all of his or her classes for a semester. Assume the charges totaled $2,000. Federal regulations require that 50 percent ($2,000 x 50% = $1,000) be refunded to the Federal Direct Student Loan Program. The student’s loan debt decreases, but the student still owes NKU $1,000 (assuming the student’s account balance was $0).

Acceptable proof of attendance or participation in an academic related activity is a letter from a professor noting the last date of a student’s presence in class or involvement in an academic related activity. Examples of academic related activities include physically attending a class where there is an opportunity for direct interaction between the instructor and students, submitting an academic assignment, taking an exam, an interactive tutorial or computer-assisted instruction, attending a study group that is assigned by the school, participating in an online discussion about academic matters, and initiating contact with a faculty member to ask a question about the academic subject studied in the course. Participating in academic advising is not considered an academically related activity. Financial aid recipients who fail to earn any passing grades for a given semester are notified by mail of the deadline for submitting documentation of class attendance or participation for the semester. Included in the student’s notification is a class attendance verification form that can be completed by the professor verifying attendance. Late verification of attendance is not accepted.

NKU is required to comply with Title IV federal regulations in this manner to ensure continued participation in federally funded aid programs.

Return of Funds for Modules (R2T4)
For all programs offered in modules (a course that does not span the entire length of the semester), a student is considered a withdrawal for Title IV purposes if the student ceases attendance at any point prior to completing the payment period or the period of enrollment, unless the school obtains written confirmation that he/she will attend a module that begins later in the same payment period or period of enrollment. To determine if a student who is enrolled in at least one course offered in modules is considered a withdrawal, the student must have begun attendance in the period of enrollment, ceased to attend a course and at the time he/she ceased to attend, he/she was no longer attending any other courses as well.
Academic Program Opportunities

Academic Common Market
The Academic Common Market is a cooperative tuition-reduction agreement among 16 Southern Regional Education Board states. The program allows Kentucky students who are interested in an academic program not offered at a public/state-funded university in Kentucky to pay in-state tuition at participating public/state-funded colleges and universities. The list of programs included in the ACM is revised periodically to reflect the changing needs and offerings of participating states. The 16 states that participate in the ACM are Alabama, Arkansas, Delaware, Florida (graduate-level only), Georgia, Kentucky, Louisiana, Maryland, Mississippi, Oklahoma, South Carolina, Tennessee, Texas (graduate-level only), Virginia, and West Virginia. For more information, contact: Academic Common Market Institutional Coordinator, Founders Hall 508, Northern Kentucky University, Highland Heights, KY 41099, 859-572-6578 or the Council on Postsecondary Education, Kentucky ACM Coordinator, Frankfort, KY 40601, 502-573-1555.

Cooperative Education
Office: Career Services
Location: University Center 225
Telephone: 859-572-5680
Fax: 859-572-6986
Email Address: careerservices@nku.edu
Web Address: http://careerservices.nku.edu
Director: Bill Froude
Co-op Manager: Amanda Meeker
Cooperative education is an academic option that incorporates relevant work experience into a student’s program of study. This learning experience involves gainful employment, and academic credit is earned and applied toward associate and bachelor’s degrees. The employment experience is planned, supervised, and coordinated by employers, faculty coordinators, and career services’ staff. Students register for CEP 300 in order to receive cooperative education credit. For instructions, visit the website (http://careerservices.nku.edu/students/coopinternships.html).

Requirements
To be admitted to the cooperative education program, a student must have an overall GPA of at least 2.20 based on a 4.00 scale. This GPA must be maintained throughout the student’s cooperative education experience. To qualify as candidates for the program, associate degree students must have completed 15 semester hours; bachelor’s degree students must have completed 30 semester hours.

Academic Credit
Students may work part time or full time, earning academic credit—one, two, three, or six credits—based on the total number of hours they work each semester. Students enrolled for six credits (full-time employment for an entire semester) are considered full-time students for the purposes of student benefits and activities. Credits earned in cooperative education count toward NKU graduation requirements for the associate or bachelor’s degree. Bachelor’s degree students may apply a total of 12 semester hours toward graduation requirements; associate degree students may apply a total of 6 semester hours. Cooperative education is graded pass/fail. Cooperative education credit does not replace any general education requirements. The application of cooperative education credit toward the degree will be determined by the student and the academic advisor. Academic loads may vary depending on special arrangements agreed to by a student’s academic unit and Career Services.

Tuition
Cooperative Education students pay the usual tuition and fees; there are no special fees associated with Cooperative Education.

First-Year Programs
Location: University Center 127
Telephone: 859-572-5913
Email Address: firstyearprograms@nku.edu
Web Address: http://firstyear.nku.edu
Director: Jeanne Pettit
Other Key Personnel:
  - Assistant Director: Sarah Maguire
  - Department Specialist: Leah Cook
  - Lecturer: Tracy Hart
  - Freshman Specialist in History: Bonnie May

The Office of First-Year Programs is responsible for coordinating five major academic initiatives for freshmen: (1) UNV 101, (2) learning communities, (3) Alpha Lambda Delta, a freshman honors society, (4) freshman specialists, and (5) the Book Connection. In addition, First-Year Programs offers UNV 301, a unique opportunity for qualified upperclassmen to mentor freshmen and gain teaching experience.

UNV 101: Orientation to College and Beyond
This course is an active-learning experience designed to help students make a successful transition to university life. UNV 101 provides students with essential information about university policies, rules, procedures, and resources. UNV 101 topics include learning styles, critical and creative thinking, diversity, college success skills, choosing a major and a career, and research strategies. Students are required to attend class and to interact with their instructor and classmates. Throughout the course, students are strongly encouraged to take responsibility for their own learning inside and outside of the classroom. Students will learn skills essential for a positive transition to college and to future transitions in their lives.

UNV 101 is a graded, academic, three-credit-hour course limited to freshmen. It counts as an elective that may be applied toward graduation. UNV 101 is taught by a specially trained group of instructors who come from various areas and disciplines across campus. Some sections may be team-taught by two instructors or be part of a learning community. Students may enroll for a UNV 101 course during registration. No special permission is needed.

Alpha Lambda Delta
Alpha Lambda Delta is a freshman honors society for first-time, full-time freshmen. Minimum criteria include that students must be in the top 20 percent of their class and earn a 3.5 GPA at the end of their first semester. Students are invited to join, and an induction ceremony is held to honor students’ academic achievement, during the spring semester of students’ freshman year.

Learning Communities
Learning communities organize popular courses, including many general education courses, to promote student learning and to enhance connections among students, and among students and faculty. Typically, a group of 24 students enrolls in two or three courses that are linked together. Because they have shared classes, these students are more likely to become friends, form study groups, participate in class discussions, experience a deeper level of learning, and get to know faculty. Learning communities are open to all students, and students can choose from a wide range of options when they...
register for classes. However, students must register for all the courses linked together in a learning community.

**Freshman Specialists**

Freshman specialists are faculty who specialize in teaching and advising freshmen. They complete additional training and participate in learning communities while teaching freshman-level general education courses within their disciplines. Freshmen with a major in history/geography are advised by a freshman specialist.

**The Book Connection**

The Book Connection creates a sense of community and welcomes students to the academic life of the university by engaging them in a campus-wide discussion of a book of common interest. Every year, a different book is selected. All first-year students are given the book at their orientation. Many faculty who teach first-year courses use the book in their classes. During the fall semester, there are additional curricular and co-curricular activities, including an essay/art contest and a campus visit from the author of the selected book.

UNV 301: University 101 Teaching Internship

UNV 301 students mentor NKU freshmen taking UNV 101 and help them successfully transition to college. Assisting in UNV 101 gives UNV 301 students an opportunity to develop abilities they will need for work or graduate school. Moreover, they develop these abilities in the university – a setting in which they have become ‘experts.’ UNV 301 students sharpen their ability to facilitate small-group discussions and to speak in front of groups; develop leadership and mentoring skills; and gain classroom teaching experience. UNV 301 students reflect upon their experiences as they participate in regular classroom meetings, contribute to online discussions, read materials relevant to the mentoring experience, and submit written work.

UNV 301 is a graded, three-credit-hour course that is limited to students who have earned a GPA of least 3.0. Enrollment in the course is selective and requires instructor consent. The course counts as an elective that may be applied toward graduation. UNV 301 is taught by a seasoned UNV 101 instructor who guides the mentorship process.

**Grant County Center**

**Location:** 390 North Main, Williamstown, KY 41094

**Telephone:** 859-824-3600

**Fax:** 859-824-3625

**Email Address:** grantcounty@nku.edu

**Web Address:** http://grantcounty.nku.edu http://grantcounty.nku.edu

**Associate Director:** Correy Eimer

**Other Key Personnel:**

- Secretary: Connie Lawrence
- Lecturers: Matt Birkenhauer, Sam Lapin

The NKU Grant County Center, located in Williamstown, Ky., is dedicated to increasing access to education for the residents of Grant, Gallatin, Owen, southern Boone, and Pendleton counties and surrounding areas. At the NKU Grant County Center, classes are small; services are outstanding; and the staff is supportive. Classes are available on-site and via interactive television. More information about the NKU Grant County Center can be obtained by calling the center at (859) 824-3600 or by email (GrantCounty@nku.edu).

**Greater Cincinnati Consortium of Colleges and Universities**

NKU is a member of the Greater Cincinnati Consortium of Colleges and Universities, which allows NKU students to take courses from GCCCU member schools and from schools affiliated with the Southwestern Ohio Council for Higher Education when those courses are not available at NKU.

A list of colleges and universities that are members of GCCCU or SOCHE follows the list of policies below.

**Policies**

1. NKU students may enroll in courses at a GCCCU member institution providing that the course(s) is not offered at NKU for one academic year. Exception: the student has officially applied for graduation with the Office of the Registrar and needs a course(s) to graduate. If the course(s) is not available at a GCCCU campus, then, and only then, students can enroll for those courses at a SOCHE school. Course availability at a consortium college or university is on a space-available basis and students are responsible for ensuring they have taken the necessary prerequisites for consortium course(s).

2. Students must be degree seeking and in good academic standing to participate in the consortium.

3. Course load policies stipulate that:
   a. Students may enroll in no more than two courses at the consortium (non-NKU) institution in any one semester.
   b. The student’s total load is governed by NKU’s course load policy.
   c. Student enrollment at the consortium institution may not exceed one-half of total class load for any one semester, and student must be enrolled in course(s) at NKU.

4. The total number of consortium semester hours a student may take is limited to 12.

5. Students enrolling at a member institution in the summer must either:
   a. Also be enrolled at NKU in the summer, or
   b. Have been enrolled at NKU at least half-time during the preceding spring semester, in which case they are not required to be enrolled at NKU during the summer.

6. Tuition and fees:
   a. Students who take courses through the consortium program pay tuition to NKU at the regular NKU tuition rate applicable to specific degree programs.
   b. Students are required to pay course-related fees at the host institution.

7. Students must have prior approval from the vice provost to enroll in course(s) through GCCCU or SOCHE. In addition:
   a. Courses for credit toward an academic major must be approved by the chair of the major department.
   b. Courses for credit toward an academic minor must be approved by the chair of the department housing the minor.
   c. Courses for credit in the general education program must be approved by NKU’s director of general education.

8. Course credits and grades for courses earned under this program will be posted on the NKU transcript.
   a. Credit hours earned under this program are considered as credits earned in residence at NKU.
   b. If credits earned are in quarter hours rather than semester hours, they will be multiplied by two-thirds to convert them to semester credit hours; for example three quarter hours = two semester hours.

9. Students must observe all regulations of the host institution.

Course offerings and course schedules for a particular institution are available on the website of that institution. Forms for registering for this program are available in the Office of the Registrar. Additional information can be obtained by calling NKU’s Office of the Registrar at 859-572-5556.
Member Institutions of GCCCU
Art Academy of Cincinnati
Athenaeum of Ohio
Chattfield College
Cincinnati Christian University
Cincinnati State Technical and Community College
Gateway Community and Technical College
God’s Bible School and College
Good Samaritan College of Nursing and Health Science
Hebrew Union College-Jewish Institute of Religion
Miami University (including Hamilton Campus and Middletown)
Mount St. Joseph University (formerly College of Mount St. Joseph)
Northern Kentucky University
Thomas More College
Union Institute and University
University of Cincinnati (including Clermont College and UC-Blue Ash)
Wilmington College
Xavier University

Member Institutions of SOCHE
The SOCHE includes several of the GCCCU institutions plus the following:
Air Force Institute of Technology
Antioch College (including Antioch University Midwest)
Cedarville University
Central Michigan University
Central State University
Clark State Community College
Edison Community College
Kettering College
Miami-Jacobs Career College
Miami University Middletown
Miami University Regionals
Sinclair Community College
Southern State Community College
Union Institute and University
United Theological Seminary
University of Dayton
Urbana University
Wilberforce University
Wilmington University
Wittenberg University
Wright State University

Honors Program
Location: Honors House
Telephone: 859-572-5400
Fax: 859-572-6091
Email Address: honors@nku.edu
Web Address: http://honors.nku.edu
Interim Director: Belle Zembrudt
Other Key Personnel:
Coordinator of Advising: David Kime
Recruitment and Events Coordinator: Stephanie Churchill
Administrative Specialist: Brittany Smith

Full-time faculty: Ali Godel, Kristin Hornsby, April Callis, Rachel Zlatkin, Belle Zembrudt

Undergraduate Programs:
Minor: Honors

Thinking about the program: The NKU honors program is a supportive, nurturing, and challenging academic community for highly motivated and intellectually curious students. The honors program specifically promotes cross-disciplinary reasoning, exchange of ideas, trans-disciplinary applications, and project creation and management.

Honors education involves ongoing interaction with peers and instructors in a dynamic environment where the individual student voice is important, where all members of a class learn from one another, and where each student can locate and explore his or her personal passion in relation to a given topic.

Above all else, the honors program is an environment that consistently promotes academic excellence.

The honors program serves students from all of NKU’s undergraduate colleges and academic departments and actively works with the colleges and academic departments to enable any student, regardless of major, to finish the honors program. Coordinated advising between honors and academic departments facilitates a smooth curricular flow for all honors students.

The 21-credit-hour program includes 15 credits of coursework, as well as a 6-credit independent project known as a capstone, completed under the direction of an NKU faculty member chosen by the student in consultation with the honors program.

Students who complete the honors program earn the distinction of University Honors Scholar on their diploma and transcript. This distinction counts as a secondary area in graduation requirements.

Special opportunities for our students: The honors program encourages students to think across discipline-specific boundaries, to envision and articulate connections between disciplines that may not seem to be readily connected, to see applications of their studies beyond the university to a larger global community, and to imagine innovative solutions. The learning outcomes of honors courses include demonstration of superior communication skills, both in writing and speaking, analysis, synthesis, and critical thinking. The capstone project is the exit requirement for the honors program and affords students the opportunity to engage in independent research or creative work, an undertaking particularly valued by potential employers, graduate schools, and professional schools and programs.

Similarly, the designation University Honors Scholar on the diploma and transcript is a distinction that provides students with a competitive edge.

The honors program supports co-curricular activities that include activities to promote civic engagement, global perspectives, and leadership experiences. The honors program awards scholarship money to students in the program to support travel experiences of various kinds, including trips that are part of honors courses, study-abroad endeavors undertaken as part of an academic major, travel related to conferences, and capstone expenses.

Special admission requirements: NKU’s honors program is open to incoming freshmen, continuing NKU students, and transfer students. Prospective students should apply by visiting the honors website (http://honors.nku.edu) and completing the honors application form.

Note: The honors application is separate from the NKU application for admission.

For incoming freshmen, qualifying academic credentials include: ACT composite score of 26 or above or SAT combined score of 1180 or above; demonstrated success in AP or IB courses; a high-school GPA of 3.5 or above; or ranking in the top 10 percent of the high school graduating class, as well as the application essay.

For continuing students, a GPA of 3.25 or above qualifies a student to apply to honors. The formal application via the website, including the writing samples, is required.

You should also know: To remain active within the honors program students must maintain a 3.25 overall GPA (including all early-admit and transfer courses) and also enroll in one honors course at least every other semester. Students who do not complete one honors course within two semesters will lose honors status. Students will be considered on probation in the honors program if their GPA drops below a 3.25. Students will lose honors status if their GPA remains below a 3.25 for two consecutive semesters.
semesters. Students may reapply to the honors program once their GPA is again at 3.25 or above. Honors students are required to meet with an honors program academic advisor the first year in the program and are encouraged to meet with an honors advisor every semester.

ROTC

ROTC Air Force
Telephone: 513-556-2237
Email: afrotc@ucmail.uc.edu
Web Address: www.uc.edu/afrotc.html
Contact at NKU: AFROTC Cadet Recruiter

Air Force ROTC Aerospace Studies is offered through a cooperative agreement with the University of Cincinnati. Qualified NU freshman and sophomore students may participate in the program and may compete for scholarship opportunities through the United States Air Force ROTC.

Air Force ROTC prepares students to assume positions as commissioned officers in the U.S. Air Force, through a combination of classroom and practical leadership experiences, and esprit-de-corps activities with others in the cadet wing. Graduates are commissioned as second lieutenants trained to begin careers as pilots, navigators, engineers, program managers, scientists, space and missile operators, air battle managers, nurses, security forces or maintenance officers, as well as any of the more than 150 officer career fields offered.

The Air Force ROTC program begins with a general military course. Freshmen- and sophomore-level students participate in classroom work, a one-credit hour aerospace studies course, and a hands-on leadership-skills laboratory course. The program consists of 12 credit hours in aerospace studies courses that count toward your degree requirements. (Students must consult their academic advisor for details.)

Students interested in additional information may visit the national website (http://www.afrotc.com) or the local website (www.uc.edu/afrotc.html), or call 513-556-2237. Refer to the course descriptions section of this catalog for a list of military science (MSC) consortium courses.

ROTC Army
Location: Founders Hall 200 and 206
Telephone: 513-745-1066 or 513-745-3076
Email: roachw2@nk.edu
Web Address: http://www.xavier.edu/rotc
Contact at NKU: William Roach

Military science/Army ROTC is offered through a consortium agreement with Xavier University. The Department of Military Science at Xavier is located in St. Barbara Hall on Xavier’s campus and may be reached during business hours at 513-745-1066. An office is located on NKU’s campus in Founders Hall 200 and 206. The faculty listed above work in offices at both Xavier and NKU.

The Department of Military Science offers a commission as a second lieutenant and provides an opportunity for men and women to study subjects of recognized military and educational value, which assist them in gaining the foundations of leadership. The primary purpose of ROTC is to produce quality leaders to serve as commissioned officers in the United States Army, the Army National Guard, and the Army Reserves.

A commission is earned through a two-, three-, or four-year participation in the ROTC program. The four-year program is completed at the university and consists of courses numbered below 300 in the freshman and sophomore years, followed by courses numbered 300 and above in the junior and senior years. The two-year program begins with credit granted for prior military training, including basic training, or a four-week paid summer camp at Fort Knox, Ky., between the sophomore and junior years that teaches the student all subjects covered in the courses numbered below 300. In the two-year program, the student completes the courses numbered 300 and above during the junior and senior years. Courses numbered below 300 are taken on a voluntary basis. There is no military obligation incurred for taking courses numbered below 300. The courses numbered 300 and above qualify the student for a commission as an officer in the United States Army. A military obligation is incurred for taking courses numbered 300 and above. Admission to courses numbered 300 and above must be approved by the chair of the military science department.

Selective admission requirements: Army ROTC seeks to produce officers for the United States Army, which means that only high-quality applicants with demonstrated leadership ability are sought and retained. To enroll in Army ROTC, students must be in good physical condition, be full-time students in good academic standing with their university, and maintain a cumulative GPA of at least 2.0.

Non-contracted (basic course) cadets must obtain a “sports physical” from a physician who must attest that there is nothing that would preclude the student from normal participation in a regular physical education class. Cadets who seek to contract must meet the Army physical fitness standards by passing the Army Physical Fitness Test and meeting the Army’s prescribed height, weight, and body fat standard, be medically qualified by the Department of Defense Medical Examination Review Board, possess at least a 2.0 GPA, and maintain full-time enrollment in a bachelor’s degree program. No prior military training is required, and students are not required to enlist in the Army to join ROTC. However, students who do have prior military service or who are current Army National Guard or Army Reserve members may be granted credit for MSC 100- and MSC 200-level classes, at the discretion of the professor of military science. Current National Guard and Reserve soldiers are encouraged to contact the department for information on gaining a commission through the simultaneous membership program.

More information about the program and details regarding specific courses are available on the website (http://www.xavier.edu/rotc). Refer to the course descriptions section of this catalog for a list of military science (MSC) consortium courses.

Service Learning and Public Engagement: Scripps Howard Center for Civic Engagement

Location: Founders Hall 536
Telephone: 859-572-1448
Fax: 859-572-1445
Email Address: engage@nk.edu
Web Address: http://civicengagement.nku.edu
Executive Director: Mark Neikirk
Coordinator: Collette Thompson

For students who are looking for a chance to get outside of the classroom and learn from the real world, NKU opens doors they might not have imagined possible. For those who are looking to engage in lively discussions of current events and public policy, NKU welcomes their voices. The Scripps Howard Center for Civic Engagement coordinates and encourages learning opportunities in both of these crucial areas: service and citizenship. The center oversees several NKU programs: the Mayerson Student Philanthropy Project; the Six@Six lecture Series; the Newspaper Readership Program; the Northern Kentucky Forum; Project Hope; The 505 Initiative, Spring into Service; and Democracy Square Live dialogues.
Service
NKU students have travelled to California’s agricultural valleys to learn about migrant workers and to New Orleans’ Ninth Ward to learn about disaster relief. Closer to home, they have built web pages for small nonprofit agencies, designed exhibits for community museums, chipped in after tornadoes for disaster relief, and partnered with inner-city residents to address community needs. This marriage of curriculum and community service is called service learning. NKU offers about 50 service-learning classes each semester. Students will find service-learning classes across all majors. The Scripps Howard Center also works with academic departments to support internships, alternative spring breaks, applied research, and independent studies to provide additional routes for connecting academic experiences to community service.

Citizenship
Students interested in public affairs and current events will be attracted to programs sponsored or co-sponsored by the Scripps Howard Center for Civic Engagement. Students explore community, state, national, and international issues in the classroom and beyond the classroom. University-sponsored public forums draw students and the community together to discuss timely topics, from healthcare to new media, from the economy to education. The Scripps Howard Center also conducts nonpartisan voter registration drives, an online mock election, and an on-campus bulletin board, Democracy Square, for the exchange of ideas and commentary on public affairs. The center also coordinates NKU’s Newspaper Readership Program in order to promote a climate of inquiry about public affairs and current events.

Do you have an idea about how to engage your fellow students? Contact the Scripps Howard Center for support.

Student Research and Creative Opportunities
The university strives to enhance the experiences of students by offering opportunities that enable them to fund and present research and creative work. Students can obtain funding for materials, supplies, equipment, or project-related travel while they conduct a project under the mentorship of a faculty member. Funding guidelines are available online (http://rgsrs.nku.edu/research/rgc/opportunities.html).

Students can also present their work at NKU’s annual Celebration of Student Research and Creativity. This event, held during the spring semester, highlights students’ achievements in a broad array of scholarly and creative activities. Students display their work through posters, oral presentations, interactive demonstrations, performances, and exhibits of artistic work. For further information, contact the Office of Research, Grants, and Contracts at 859-572-5136 or visit the web (http://celebration.nku.edu).

Study Abroad
Office of Education Abroad
Location: University Center 330
Telephone: 859-572-6908
Fax: 859-572-6650
Email Address: studyabroad@nku.edu
Web Address: http://studyabroad.nku.edu
Director: François LeRoy

The Office of Education Abroad coordinates all education abroad programs at NKU. Through membership in several consortia, third party providers, its own exchange agreements with foreign universities, and independently designed programs, the Office of Education Abroad is committed to providing students with a variety of affordable opportunities for education throughout the world. In addition to study abroad options, students can participate in internships, volunteering and service learning experiences, as well as new Study Away programs within the United States. Education majors have the opportunity to teach overseas as part of their student teaching experience. Students earn academic credit for courses taken abroad through these programs. Students should consult with their advisors to ensure that courses taken abroad will count toward their general education, major or minor requirements.

Students may participate in a wide range of courses and programs to fit the academic needs and objectives of all students.

Student and faculty exchanges are offered in the following locations:

- Perth, Australia
- Heredia, Costa Rica
- Quito, Ecuador
- Caen, France
- Gifu, Japan
- The Hague, The Netherlands
- Cebu, The Philippines
- Moscow, Russia
- Seoul, South Korea
- Taipei, Taiwan
- Shanghai, China
- Aarhus, Denmark
- London, England
- Munich, Germany
- Nagoya, Japan
- Rotterdam, The Netherlands
- Cluj-Napoca, Romania
- Glasgow, Scotland
- Leon, Spain
- Mexico City, Mexico

In addition to study abroad options, students can participate in internships, with a variety of affordable opportunities for education throughout the world. In addition to study abroad options, students can participate in internships, volunteering and service learning experiences, as well as new Study Away programs within the United States. Education majors have the opportunity to teach overseas as part of their student teaching experience. Students earn academic credit for courses taken abroad through these programs. Students should consult with their advisors to ensure that courses taken abroad will count toward their general education, major or minor requirements.

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- Taipei, Taiwan
- Shanghai, China
- Aarhus, Denmark
- London, England
- Munich, Germany
- Nagoya, Japan
- Rotterdam, The Netherlands
- Cluj-Napoca, Romania
- Glasgow, Scotland
- Leon, Spain
- Mexico City, Mexico

The office also provides information on numerous international scholarships including the NKU International Study Scholarship, Beyond the Classroom SOC 100 Award, Rhodes, National Security Education Program, the Benjamin A. Gilman International Scholarship, and British Marshall Scholarship.

All interested students should stop by the Office of Education Abroad to meet with a specialist to discuss these and other opportunities available to enrich their education. They may also call 859-572-6908 or visit the website (http://studyabroad.nku.edu).
Academic Appeals – Course Related
When a student believes that an instructor has violated his or her rights in the classroom — for example, failure to follow stated grading policy as outlined in the course syllabus, discrimination in evaluating individual achievement, illegal discrimination or harassment — the student should follow the procedures listed in Code of Student Rights and Responsibilities, section 5.G (http://deanofstudents.nku.edu/policies/student-rights.html).

Academic Renewal
Academic renewal allows students who meet specific criteria to remove certain courses from their GPA calculation and credits earned. The courses and grades remain on the student’s transcript, but they do not contribute to the GPA nor contribute to the total credits earned.

Academic Renewal Policies
1. A returning undergraduate student who has not attended NKU for a minimum of two full consecutive academic semesters may petition for academic renewal of NKU coursework on a one-time-only basis. For the purpose of academic renewal, all summer sessions in one year will be counted as one semester.
2. When a student successfully completes 12 semester hours of courses numbered 100 and above at NKU, he or she should make an appointment with their academic advisor to discuss academic renewal and complete the Undergraduate Academic Renewal Petition on the website (http://registrar.nku.edu/Forms/Student.html).
3. To be considered for academic renewal, the student must have a GPA of at least 2.00 based on all courses completed since being readmitted and up through the semester in which the student earned the twelfth credit.
4. In completing an application for academic renewal, a student must specify the semesters that he or she wishes to be removed from the GPA calculation and credits earned.
5. For every semester selected for academic renewal, ALL courses transcripted for that semester will be subject to academic renewal.
6. For the semesters that are part of academic renewal, the courses and grades earned during those semesters will remain on the transcript, but the grades will not be included in the calculation of the student’s overall GPA and the credits will not apply to the minimum of 120 semester hours required for the bachelor’s degree or to the minimum of 60 semester hours required for the associate degree. The credits also will not apply to the bachelor’s degree requirement of 45 credits at the 300 level and above.
7. Courses that are part of academic renewal and satisfy the requirements for general education may be applied, but without awarding of credit, toward those requirements, provided that the student passed the course(s) at an acceptable level. Such application for major/minor requirements is subject to written approval by the chair of the department housing the relevant major or minor. This approval is found on the academic renewal petition (http://registrar.nku.edu/Forms/Student.html).
8. The student’s transcript will indicate the semesters that were subjected to academic renewal.
9. An updated transcript will be available via my Records on myNKU.
10. It is the student’s responsibility to contact any agency providing financial assistance to determine the effects of academic renewal on past or future financial benefits.
11. Students may apply for academic renewal only once.
12. Students who first enrolled at NKU between fall semester of 2004 through summer semester 2009 may have policies that affect their records outside of this catalog. These students are encouraged to contact the Office of the Registrar for clarification.

Academic Requirements and Regulations Updates
The colleges of the university reserve the right to change requirements. Program changes will become effective at the beginning of the next fall semester following their approval and are applicable only to new students and to readmitted students as stipulated elsewhere in this catalog under Catalog of Record. Changes in program requirements with any other effective date require the approval of the provost; such changes will become effective when posted in the Lucas Administrative Center, the University Center, the Student Union, the Office of Graduate Programs (for graduate programs only), and in each academic building. Students should refer any inquiries to the appropriate dean or the registrar. Visit the university website (http://www.nku.edu) for more information.

Academic Standing
1. **Student Classification:** Students are classified based on the number of successfully completed semester credit hours earned in courses numbered 100 and above.

   - Freshman ......................................................... 0-29 credit hours
   - Sophomore ..................................................... 30-59 credit hours
   - Junior ............................................................. 60-89 credit hours
   - Senior ............................................................... 90 or more credit hours

2. **Good Standing:** A student is in good standing when he or she has at least 16 credit hours (including all courses numbered 100 and above) and a cumulative GPA that meets or exceeds 2.00 for all courses attempted at the 100 level and above. A student with 0-15 credit hours is in good standing with a cumulative GPA that meets or exceeds 1.66 for all courses attempted at the 100 level and above.

Academic Warning
1. The first time a student’s overall GPA drops below 2.00 (or below 1.66 if the student has fewer than 16 semester credit hours), the student is placed on academic warning and will receive a letter indicating the student’s status and the consequences of being on academic warning.

   a. A registration hold is placed on the student’s record, which prevents the student from registering for classes prior to meeting with an advisor.
   b. The student will be required to meet with an advisor to remove the registration hold and to develop a plan for improving the student’s academic performance.
   c. The student will be advised to take advantage of the university’s many services that support student success.

2. Students who are placed on academic warning will not be subject to probation before completion of 30 quality hours. After completion of 30 quality hours, one of two things will happen for any student on academic warning the previous semester:

   a. If the cumulative GPA has increased to at least 2.00, the student will return to good standing.
   b. If the cumulative GPA has not increased to at least 2.00, the student will be placed on probation.
Academic Probation

1. If a student on academic warning fails to increase his or her overall GPA to at least 2.00, then the student will be placed on probation.
2. When a student is placed on academic probation:
   a. A registration hold is placed on the student’s record, which prevents the student from registering for classes prior to meeting with an advisor.
   b. The student will be required to meet with an advisor to remove the registration hold and to develop a plan for improving the student’s academic performance.
   c. The student will be allowed to take no more than 13 semester credit hours during fall and spring semester, no more than six semester credit hours in the summer, and no more than one class in any one summer or winter session. Exceptions to this policy apply to students enrolled in the PACE program.
   d. The student is expected to work closely with his or her advisor to identify and take advantage of the university’s many services that support student success.
3. A student will be removed from academic probation status if he or she achieves an overall GPA of at least 2.00.
4. A student with a cumulative GPA of less than 2.00 will remain on academic probation if he or she earns a GPA of at least 2.25 in the current semester.
5. A student on academic probation who fails to achieve either 3 or 4 will be suspended.

Academic Suspension

First Suspension

1. A student suspended from NKU or another institution for the first time for academic reasons is required to remain out of school for at least two full semesters (counting only spring and fall).
2. After serving the period of suspension, a student may be reinstated or admitted to the university.
   a. To be reinstated or admitted, the student must meet with the dean (or dean’s designee) for the student’s college or if the student is “undeclared,” the director of Norse Advising, to discuss academic standing and future direction.
   b. This meeting must occur by August 1 for fall semester, December 1 for spring semester, and May 1 for summer sessions.
3. If the suspended student has remained out of school for more than four years, the student must complete and submit an application for readmission to the university once reinstatement has been approved.
4. Step #2 also applies to students transferring to NKU who are ineligible to return to their previous institution(s) because of academic deficiencies or if they have a cumulative GPA of less than 2.00

Second Suspension

1. A student suspended a second time is required to remain out of school for at least two full semesters (counting only spring and fall).
2. The student will not be reinstated to NKU except in unusual circumstances and then only if the following conditions are met:
   a. The student meets with the appropriate college dean (or dean’s designee) or the director of Norse Advising if he or she lacks a declared major and obtains a positive recommendation for reinstatement.
   b. The student submits an appeal letter to the ad hoc group described in (c) below.
   c. An ad hoc group, consisting of the dean (or dean’s designee) from each of the undergraduate colleges plus the director of Norse Advising, approves the student’s request for readmission.
   d. Steps (a) through (c) are completed by August 1 for fall semester, December 1 for spring semester, and May 1 for summer sessions.
3. If reinstatement is approved, the student must then complete and submit an application for readmission to the university.

ADA Policy

The Office of Disability Services (http://disability.nku.edu) provides academic accommodations and auxiliary aids to individuals with disabilities in compliance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act. The office staff are committed to providing reasonable accommodations and a supportive environment for qualified students with disabilities to ensure equal access to the university’s programs and curriculum.

Adding a Course

1. The online registration guide and online academic calendar list the dates when a student may add a course after completing registration.
2. A course should be added via myNKU or in person at the registrar’s office, Lucas Administrative Center 301. Registration for the added course is not official unless processed via one of these methods.
3. When adding courses, a student should see the course load policy for allowable limits.

Alcohol and Drug Abuse Policy

In order to ensure the university’s commitment to a quality educational and work environment, every faculty member, employee, and student has a right to work and learn in an environment free from the effects of abuse of alcohol and other drugs. It is the policy of the university to discourage the misuse and abuse of alcoholic beverages and other drugs.

NKU prohibits the unlawful possession, use, or distribution of drugs and alcohol on its property or as a part of its activities. A clear statement of unacceptable conduct and consequences related to substance abuse is found in the Code of Student Rights and Responsibilities (http://deanofstudents.nku.edu/policies/student-rights.html).

Students may be accountable to both civil authorities and to the university for acts that constitute violations of both the law and the student code. Those charged with violations are subject to university disciplinary proceedings pending criminal proceedings and may not challenge university proceedings on grounds that criminal charges for the same incident have been dismissed, reduced, or not yet adjudicated.

The following misconduct is subject to disciplinary action:
- Unauthorized distribution, possession, or use of any controlled substance, illegal drug, or paraphernalia as defined by Kentucky Revised Statutes, chapter 218A, on university premises or at university-sponsored activities.
- The use, possession, or distribution of alcoholic beverages on university property except as authorized by university policy.
- Appearing in a public place on university premises or at university-sponsored activities manifestly under the influence of a controlled or other intoxicating substance to the degree that there is danger to self, others, or property, or there is unreasonable annoyance to persons in the vicinity.
- Aiding or abetting any conduct described above.

The legal drinking age in Kentucky is 21. Individuals are personally responsible for knowing the laws that apply to substance abuse in Kentucky. In particular, individuals should be aware of the legal consequences for...
violation of the legal age, use of false identification, drunk driving, and the
sale or distribution of illicit drugs.

Recognizing that alcohol and drug abuse are serious problems in our society,
NKU offers a variety of educational and assistance programs to the student
population. For more information, students should contact the Office of
Health, Counseling, and Student Wellness (http://hcsw.nku.edu), University
Center 440, or by calling 859-572-5650.

Attendance

Classroom participation is essential to the educational process. When
requirements of attendance are delineated in the syllabus, the instructor may
lower a student’s final grade because of absences. Students are responsible
for material disseminated in class and online and are not released from this
responsibility because they cease to attend. It is the student’s responsibility
to be aware of the calendar deadline for officially withdrawing from a course.
If a student does not officially withdraw prior to this deadline and fails to
successfully complete the required coursework, a failing grade will be
recorded.

Auditing a Course

1. A student may enroll to audit a course when the student does not desire
to earn academic credit for the course.
2. The same registration procedures are followed and the same tuition and
fees are charged as for credit courses.
3. An audit form must be completed and filed in the registrar’s office, Lucas
Administrative Center 301, by the last day to register or enter a class.
4. A grade of T is awarded for all audited courses, and no academic credit is
awarded.
5. Audited courses cannot apply to any degree or certificate programs.
6. Students auditing a course are expected to follow the university’s
attendance policy. Other course requirements will vary depending upon
the nature of the course and the individual instructor or program.
7. Any change from audit to credit or credit to audit must be completed by
the last day to register for a class.
8. Refunds for withdrawals from audited courses are calculated according to
NKU policy.

Catalog of Record

1. A student’s catalog of record is the source for all policies and program
requirements associated with the student’s degree requirements (for a
list of degree requirements, see section on Requirements for a Bachelor’s
Degree or Requirements for an Associate Degree).
   a. The most recent catalog in existence determines all other university
      policies and procedures.
   b. A student’s catalog of record does not impact course prerequisites or
      co-requisites. What is in effect when the student enrolls in the course
determines the required prerequisites and co-requisites.
2. The catalog in effect when a student enters the university (enrolls in
classes) as a degree-seeking student is the student’s catalog of record.
   a. If a student is not enrolled for two or more academic years, the
      student will be required to follow all institutional and program
      requirements in effect at the time of re-entry to the university.
3. A student may elect to change his/her catalog of record to a catalog
   issued at a later date. The student must then satisfy ALL requirements for
   the desired degree under the catalog selected.
4. To follow a later catalog, the student must make his or her intentions
   known by writing to the registrar’s office (Lucas Administrative Center
   301).
5. EXCEPTION: Transfer policies relative to GPA and course equivalencies
   will not change even if the student elects to follow a later catalog.
6. Except in unusual circumstances, the requirements of one catalog may be
   followed for no more than eight consecutive academic years from the
time the student first enrolled. After eight consecutive academic years,
the student’s catalog of record will be the catalog following the one that
just expired unless the student designates in writing to the registrar’s
office (Lucas Administrative Center 301) a more recent catalog.
7. Students should consult their academic advisors for questions regarding
   their catalog of record.
8. Appeals to this policy are handled by the academic dean of the college
   housing the student’s major.

Course Load Policy

It is normal that, for one 3-credit hour course, students should expect to
spend five to six hours on course-related work outside of class time. This
means that students carrying 15 credit hours may need to spend a minimum
of 25 to 30 hours per week outside class work. This must be considered in
developing a class schedule.

The following course load policies apply for each semester/session:
1. The suggested undergraduate course load for fall and spring semesters is
   15 credit hours.
2. The maximum course load in fall or spring semester is 18 credit hours
   (including audit, residence, correspondence, off-campus, and consortium
courses). EXCEPTIONS:
   a. A student who has attained a GPA of 3.00 or higher for a total of at
      least 15 credit hours for the preceding semester may be permitted by
      his or her dean to carry up to 21 credit hours.
   b. If a student’s curriculum specifies that a student should take more
      than 18 credits in a given semester, the student should follow the
curriculum.
3. A student may take only one intersession course and one winter term
course each year.
4. A student may take up to 6 credit hours during each of the five-week
   summer sessions for a total of 12 credit hours. The maximum course load
   for all summer sessions is 15 credit hours.
5. A student on academic probation may not take more than 13 credit hours
   in a fall or spring semester, no more than six credit hours total in summer,
   and no more than one class in any one summer or winter session.
   Exceptions to this policy apply to students enrolled in the PACE program.
6. A student with particular problems concerning course load should see the
dean (or designee) of the college that houses his or her major.

Course Numbers

Course numbers help students to know which courses are most appropriate
for them. Here is an explanation of NKU’s course numbering system:

000-099: developmental courses; courses with these numbers may not
be applied toward a student’s classification or toward a degree.
100-199: courses intended for freshmen.
200-299: courses intended for sophomores.
300-499: courses intended for juniors and seniors.
500-599: courses intended for seniors, and graduate students.
600-899: courses intended for graduate students only.

Course Substitution

Requirements for specific majors and minors have been carefully established
by the faculty of the relevant department, and they have been approved by
the University Curriculum Committee. Thus, students are strongly urged to
complete the requirements as listed in the catalog that they are following.
There are, however, limited circumstances that justify deviating from the
required list of courses, and the student may be allowed to substitute a different course in place of a required course. In those instances, a course substitution form must be requested by the faculty advisor, approved by the department chair, and submitted to the registrar’s office (Lucas Administrative Center 301).

Declaring and Changing a Major

1. Most students are allowed to declare a major at the time they apply to NKU or at the time they register as freshmen. This declaration is not considered binding, and the student may elect later to change his or her major.
2. Freshman students uncertain about their major may declare an “undecided” major.
3. Students seeking a bachelor’s degree should declare an academic major by the time they reach 30 earned credit hours, but not later than 40 hours. Transfer students entering with more than 40 hours credit will be required to declare an academic major by the end of their first semester of enrollment.
4. Students seeking an associate degree should declare a major by the time they complete 20 earned credit hours. Transfer students entering with more than 20 hours credit will be required to declare an academic major by the end of their first semester of enrollment.
5. Students must submit a declaration/change of major request through the online form in the myNKU portal any time they elect to change their program. It is a student’s responsibility to submit this online form, and once submitted, it will be routed electronically to the appropriate department(s) and the registrar’s office for approval. Failure to submit this form may affect the student’s graduation plans.

Diplomas

The diploma, which documents that one has earned a degree, is issued and dated only after all graduation requirements are met. NKU awards degrees in May, August, and December. Diplomas are then mailed to the recipient’s home address. It generally takes at least four weeks for the diploma to arrive.

Dropping a Course

Dropping a Course – Student Initiated

1. Once the semester has begun, students may withdraw from a course only during the session or semester in which the course is taken.
2. There are three time periods that relate to withdrawing from a course. The online registration guide and online academic calendar list the relevant semester dates and their equivalencies for courses of differing lengths.
   a. Weeks 1 through 3 or equivalent: during the first three weeks or equivalent of the semester, official course withdrawals are not reflected on the student’s transcript. That is, the transcript will not indicate that the student was ever registered for the course.
   b. Weeks 4 through 10 or equivalent: a student who withdraws from a course after the third week of the semester (or equivalent) and prior to the end of the 10th week of the semester (or equivalent) will receive a grade of W for the course.
   c. Weeks 11 through 14 or equivalent: course withdrawals after the 10th week or equivalent are not usually allowed. In circumstances beyond the student’s control, a W may be granted with approval of the instructor, the chair of the department offering the course, and the dean of the college offering the course. In cases not approved, the student will receive the grade of F (failure).

   1. Students withdrawing completely after the 10th week need only the approval of the dean of the student’s major.

2. The instructor may not issue a W as the final grade for students who did not withdraw prior to the 10th week or equivalent if they are not covered by exceptions listed above.

Removal from a Course – University Initiated

1. Students are expected to attend the first day of each course for which they are enrolled. A student who, without previous arrangement with the instructor or department, fails to attend the first class meeting of a given term may be dropped from the course. An instructor may drop a student for nonattendance only during the regular drop/add period of the term as defined by the academic calendar. Nonattendance does not release students from the responsibility to officially drop any course for which they have enrolled and choose not to complete.
2. A student may also be dropped from a course as a result of his or her disruptive classroom behavior. See the Code of Student Rights and Responsibilities (http://deanofstudents.nku.edu/policies/student-rights.html) for more information.

Final Exams

All classes will meet during the officially scheduled time for the final exam as published on the registrar’s website. During the scheduled exam time, the faculty member will either administer a final exam or, if an exam is not warranted, provide some other meaningful course-related experience. A take-home final exam does not eliminate the need to use the final exam time to either administer an in-class exam or provide another meaningful course-related experience.

No student can be required to take more than two final exams on the same day. If more are scheduled, it is the student’s responsibility to contact the faculty no later than the 14th week of the semester (or its equivalent) to work out a plan to move one of the exams to a different date. If none of the faculty agrees to a different exam date, the faculty member giving the third exam of the day is required to arrange a different date for the student to take the exam.

Four-Year Graduation Plans

Each academic major described in the college/department sections of the catalog is linked to a four-year graduation plan that shows one way that a student entering NKU fully qualified to undertake college-level study — that is, no deficiencies requiring developmental coursework — can complete all degree requirements in four years. These plans do not take the place of the academic advisor, and students must still work with their advisors to ensure timely graduation. They do, however, provide helpful guidance. In order to access a four-year plan, the student must use the online version of the catalog.

Full-time Status

To be classified as a full-time undergraduate student at NKU, the minimum course load is 12 credit hours in a fall or spring semester and nine semester hours in summer.

Grading Policies

Calculating a Grade-Point Average (GPA)

1. Consider ONLY courses numbered 100 and above. Developmental courses do not contribute to the GPA.
2. For each course, multiply the credits awarded by the letter grade. Each letter grade, A through F, has a numerical equivalent that is listed in the grading scale table given earlier. For example, if a course numbered 100 and above is worth three credits and the student earns a grade of B+, then multiply three times 3.333 to get 9.999. This yields the points for that course.
If a student wishes to appeal a course grade, the procedure below should be followed:

1. The student should consult with the faculty member for an explanation of the grade no later than fifteen (15) working days after the last date for faculty to submit grades. To facilitate the discussion, the student should provide the faculty member with a written statement (email or letter) that expresses his/her concern. If the student is unable to reach the faculty member, he/she should seek assistance in making contact through the chair of the department for which the course was taught.

2. If the student and the faculty member are unable to resolve the matter, and the student wishes to pursue an appeal, the student may submit a letter of appeal to the chair of the department for which the course was taught within five (5) working days of the instructor’s decision. The department chair will review the issue in consultation with the student and faculty member. The department chair may uphold the decision of the faculty member or recommend a different solution. Any recommendation should be viewed as a recommendation, not a binding decision.

3. If the student is dissatisfied with the decision by the department chair, or if the faculty member does not agree to follow a recommendation made by the department chair, either party may appeal to the Academic College Appeals Panel (see section G of Student Rights and Responsibilities). The appeal and request for a hearing must be submitted within ten (10) working days from the date of the meeting with the department chair to the academic dean or his/her designee, who will arrange a meeting of the panel as soon as practical.

The college’s academic appeals panel will review the file to determine if the student’s case meets any of the grounds for appeal. If the panel determines that the appeal does not meet any of the grounds, the appeal will not be considered. The ruling of the appeals panel that the case lacks grounds for appeal is final. If the college’s academic appeals panel determines that the case meets any of the grounds for appeal, the panel will proceed to a full hearing of the appeal. Both the faculty member and the student have the right to attend the meeting and offer evidence or rebuttal.

The college’s academic appeals panel will provide a written report of its ruling to the student, the faculty member, the department chair, the academic dean and the dean of students within ten (10) working days of the academic appeals panel. The decision of the college’s academic appeals panel is final and binding.

### Grade Change

1. If a grade change is required due to an error, it must be accomplished by midterm of the next full semester after the issuance of the incorrect grade.
   a. If the time limitation has been exceeded, the instructor must attach a written explanation of the causes for the delay and deliver the change to the chair, who will forward any approved changes to the appropriate dean’s office.
   2. For grades being changed to letter grades, the instructor and department chair must approve the change; for letter grade changes to another letter grade, the instructor, the department chair, and the appropriate dean must approve.
   3. Changes become official when received and recorded by the registrar’s office.
   4. For information on “grade appeals” – where there is a difference of opinion between the student and the instructor – see the catalog section dealing with academic appeals.

### Grading Scale

<table>
<thead>
<tr>
<th>Grade</th>
<th>Value in GPA</th>
<th>Interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.000</td>
<td>Exceptionally high achievement</td>
</tr>
<tr>
<td>A-</td>
<td>3.667</td>
<td>High achievement</td>
</tr>
<tr>
<td>B+</td>
<td>3.333</td>
<td>Average achievement</td>
</tr>
<tr>
<td>B</td>
<td>3.000</td>
<td>Below average achievement</td>
</tr>
<tr>
<td>B-</td>
<td>2.667</td>
<td>Failure</td>
</tr>
<tr>
<td>C+</td>
<td>2.333</td>
<td>Exceptionally high achievement</td>
</tr>
<tr>
<td>C</td>
<td>2.000</td>
<td>Exceptionally high achievement</td>
</tr>
<tr>
<td>C-</td>
<td>1.667</td>
<td>Exceptionally high achievement</td>
</tr>
<tr>
<td>D+</td>
<td>1.333</td>
<td>Exceptionally high achievement</td>
</tr>
<tr>
<td>D</td>
<td>1.000</td>
<td>Exceptionally high achievement</td>
</tr>
<tr>
<td>F</td>
<td>0.000</td>
<td>Exceptionally high achievement</td>
</tr>
</tbody>
</table>

Other grading options include the following:

- I  An I grade may be assigned when part of the work in a course remains incomplete. It is given only at the student’s request and when there is a reasonable possibility that a passing grade will result from completion of the work. The student and faculty member will mutually set a deadline for completion of the work. The faculty member will file a grade change when the work is completed. However, if the coursework is not completed by the last day of the following semester (excluding summer and winter terms), a grade of F will automatically be assigned. The appropriate dean may grant a semester extension of an I grade due to unforeseen family or medical circumstances and will notify the university registrar of such action. Under no circumstances will more than one extension be granted for an I grade.

- K  Represents satisfactory progress in courses identified by the
department, the dean, and the registrar as developmental or remedial, or music courses identified by the music department. Students receiving a grade of K will be required to register for that course again the next semester. During the semester in which the student achieves proficiency in the course that was previously assigned the grade of K, the instructor will assign a standard letter grade of A, B, C, etc., or a P if the course is offered only on a pass/fail basis. At that time, semester hours attempted and semester hours earned in the course will appear on the student’s permanent record.

W: Represents satisfactory performance in those courses that carry no academic credit but must be taken in conjunction with other courses.

NR: Is a temporary grade indicating that a grade was not yet reported for the particular course. When the grade is issued, the NR will be changed to one of the other grades.

P: Represents satisfactory performance, or “passing,” in those courses graded pass/fail. Only the grade of C- or better is considered passing on the pass/fail system.

T: Represents an audit (no academic credit awarded).

W: Represents an official withdrawal from a course. The W will appear on the permanent academic record but will not be used in computing the student’s GPA.

Honors Lists
1. All undergraduate students attempting at least 12 semester credit hours at the 100 level and above (this excludes developmental coursework) who achieve a semester GPA of 4.000 at the completion of a semester’s work will be appointed to the President’s Honors List.
2. All undergraduate students attempting at least eight semester hours at the 100 level and above (this excludes developmental coursework) achieving a semester GPA of at least 3.600 at the completion of a semester’s work will be appointed to the Dean’s List.
3. All undergraduate students attempting at least three semester hours but fewer than eight semester hours at the 100 level and above (this excludes developmental coursework) achieving a semester GPA of at least 3.600 at the completion of a semester’s work will be appointed to the Scholar’s List.

Pass/Fail Grading Option: Student-Initiated Option
1. The student-initiated option to take a course pass/fail encourages students to experiment in academic disciplines by enrolling in courses they may not take normally if subjected to the same grading pressures incurred as in their major area of study. For this reason, pass/fail can contribute substantially to a student’s breadth of experience at NKU.
2. Taking courses pass/fail under the student-initiated option is subject to the following restrictions:
   a. The student must complete the appropriate form online (http://registrar.nku.edu/content/dam/registrar/docs/Pass_Fail_Option_Form.pdf).
   b. The form can be completed at the time of registration but not later than the last day to register for a class for that semester/term as listed in the appropriate online academic calendar.
   c. The choice to receive a traditional letter grade or a pass/fail grade cannot be changed after the last day to register for a course except by withdrawal or by repeating the course.
   d. A student may not repeat a course on a pass/fail basis in order to replace a previously earned letter grade of A through F.
   e. The student must be a bachelor’s student who has attained junior standing (having earned 60 credit hours or more).
   f. Courses taken pass/fail must be elective in nature and cannot be used to fulfill specific general education, major, minor, or focus requirements.
   g. Pass/fail courses may be applied toward 300 level and above course requirements.
   h. No more than 12 credit hours toward graduation may be completed through the student-initiated pass/fail.
   i. Only the grade of C- or above will be considered passing when courses are taken under the pass/fail option; the grades of D and F will be recorded as failing grades.
   j. The grade of F will not be computed in the GPA but the credit hours associated with the course will be counted as credit hours earned and will count toward graduation under the restrictions previously mentioned.
   k. The grade of F will be computed in the student’s GPA as hours attempted.
3. Under the student-initiated pass/fail policy, the instructor will not know whether an individual is taking the course for a traditional letter grade or pass/fail. When the semester ends, the instructor will submit traditional letter grades for all students. For those students taking the course as pass/fail, grades will be converted by the registrar’s office.
4. Should a student change major, minor, or focus after having taken a course under the student-initiated pass/fail option, any discussion regarding acceptance of the course for major, minor, or requirements will be made on an individual basis by the appropriate department chair. If needed, and with the student’s permission, the instructor’s record of the original letter focus grade may be consulted in such a case.

Graduate Courses
In general, no undergraduate student may enroll in a course at the 600 level or above. At the beginning of the semester, the Office of Graduate Programs will notify any student enrolled in a graduate-only course, and the student will be required to drop the course. If the student fails to drop the course, he she will be administratively removed from the course by the Office of Graduate Programs.

EXCEPTION: An undergraduate student who has no more than six credits remaining to complete a bachelor’s degree may be dually enrolled as an undergraduate and graduate student, provided the student has the approval of his or her undergraduate academic advisor and the relevant graduate program director. Students seeking dual enrollment must submit a graduate application and meet all admission requirements for the graduate program with the exception of the undergraduate degree. Once accepted, a dually-enrolled student may take a maximum of 12 credits, six at the graduate level and six at the undergraduate level, in a single semester. Graduate credit for these courses will not be granted unless all work for the undergraduate degree is completed in the semester in which the student is enrolled for graduate credit. Credits earned in a graduate course cannot apply toward both a bachelor’s and a graduate degree. Students taking undergraduate and graduate courses concurrently will be assessed tuition at the graduate level for all courses.

Graduation Requirements
Requirements for a Bachelor’s Degree
In order to receive a bachelor’s degree, a student must:
1. Complete a minimum of 120 semester credit hours.
2. Complete from NKU* at least 25 percent of the credits required for the degree.
3. Complete the last 30 semester credit hours from NKU*. Limited exceptions are possible when approved by the dean (or designee) of the college where the student’s major is housed.
4. Complete developmental coursework, if required.
5. Complete the general education requirements for a bachelor’s degree.
6. Complete at least 45 semester credit hours in courses numbered 300 and above. **NOTE:** Freshman- and sophomore-level courses completed at other institutions may have course titles or content similar to certain 300- and 400-level courses at NKU. The Office of Transfer Services, in consultation with the department chair where the equivalent NKU course is housed, will determine whether such courses will contribute to meeting NKU’s requirement for 45 credits in courses numbered 300 and above.
7. Complete the requirements for the major.
8. Complete one of the following:
   a. A minor in a discipline outside the major discipline
      -- OR --
   b. A minor in an interdisciplinary program offered by NKU
      -- OR --
   c. A focus consisting of at least 12 semester hours in courses numbered 300 or above, in a discipline that is different from the student’s major
      -- OR --
   d. A second major offered by NKU
      -- OR --
   e. A minor included within the major where the student is exempted from the minor/focus/second major requirement. Please see appropriate individual program requirements to determine if the program exempts the student from the minor/focus/second major requirement.
9. The requirements for a student’s major(s), minor(s), and focus area(s) must all be based on the same catalog. See the Catalog of Record section for more information.
10. Satisfy the computer-use competency requirement as determined by the student’s major department.
11. Participate in university-wide mandatory senior assessment and any senior assessment requirements associated with the major and minor.
12. Remove all incomplete grades by earning a grade of A through F in place of each one.
13. Earn an overall GPA of at least 2.00 (excluding developmental coursework) and a GPA of 2.00 in each of the following: the major, minor, and focus (unless the major or minor department has a higher GPA requirement).
14. Satisfy all financial and administrative obligations to the university.
15. **Apply to graduate.**

**Note:** For the purposes of the policies related to graduation and graduating with honors, approved courses taken through the Greater Cincinnati Consortium of Colleges and Universities or the Southwestern Ohio Council for Higher Education are treated as though they were taken from NKU.

**Applying to Graduate – Bachelor’s Degree**
To apply to graduate with a bachelor’s degree, a student must:

1. Have a program certification form on file.
   a. One signed form is required for each major, minor, and focus where the student is completing.
   b. The form is available online, and the department chairs (or designees) of a student’s major and minor fields of study must each sign the program certification form. The chair of the student’s major fields of study should sign the program certification form for the area of focus.
   c. The signed forms should be submitted to the registrar’s office (Lucas Administrative Center 301) after the student completes 54 semester hours and must be filed no later than the semester preceding the one in which the student plans to graduate.
   d. The program certification forms must be submitted prior to, or concurrently with, the application for degree candidacy, described below.
2. File an Application for Undergraduate Degree Candidacy in the Office of the Registrar. The application is available online through myNKU and should be submitted by the following dates.
   - For fall graduation: October 31
   - For spring graduation: From April 1 to May 31
   - For summer graduation: April 1*

3. Pay the application to graduate fee.
   a. For fall semester graduation, apply for undergraduate degree candidacy:
      - By April 22: $100
      - Between April 23 and August 8: $50
      - Between August 9 and October 31: $100
      - After October 31: $100
   *Graduation applications submitted after October 31 will not be processed for fall semester graduation unless special approval is obtained. Those graduating with a bachelor’s degree must receive permission from the associate dean of their college. Even with that approval, there is no guarantee that the application can be processed in time for fall graduation.
   b. For spring semester graduation, apply for undergraduate candidacy:
      - By October 22: $100
      - Between October 23 and January 8: $50
      - Between January 9 and March 30: $100
      - After March 30: $100
   *Graduation applications submitted after March 30 will not be processed for spring semester graduation unless special approval is obtained. Those graduating with a bachelor’s degree must receive permission from the associate dean of their college. Even with that approval, there is no guarantee that the application can be processed in time for spring graduation.
   c. For summer semester graduation, apply for undergraduate candidacy:
      - By April 22: $100
      - Between April 23 and May 31: $50
      - Between June 1 and July 1: $100
      - After July 1: $100
   *Graduation applications submitted after July 1 will not be processed for summer semester graduation unless special approval is obtained. Those graduating with a bachelor’s degree must receive permission from the associate dean of their college. Even with that approval, there is no guarantee that the application can be processed in time for summer graduation.

**Graduating with Honors – Bachelor’s Degree**

1. In order for a student to graduate with bachelor’s degree honors, the student must earn a minimum of 30 semester credits from NKU* and have an overall GPA and NKU GPA of at least 3.50, excluding developmental coursework. The level of honors will be based on the NKU GPA.
2. There are three levels of bachelor’s degree honors:
   - Cum laude: 3.50 – 3.7499
   - Magna cum laude: 3.75 – 3.8999
   - Summa cum laude: 3.90 – 4.00
3. Honors recognition appears in the commencement program based upon the student’s NKU GPA (excluding developmental coursework) at the conclusion of the previous semester. Honors will appear on the transcript based upon the student’s NKU GPA (excluding developmental coursework) at the time of graduation.
4. In order to be considered for graduation with honors, a student who has a bachelor’s degree and is earning a second bachelor’s degree must complete a minimum of 30 semester credits from NKU* beyond those required for the first bachelor’s degree.

   *Note: For the purposes of the policies related to graduation and graduating with honors, courses taken through the Greater Cincinnati Consortium of Colleges and Universities or the Southwestern Ohio Council for Higher Education are treated as though they were taken from NKU.

Two or More Majors
1. A student may earn two or more majors by completing the requirements for all of the majors and earning a minimum 2.00 GPA in each. NOTE: Some programs require a GPA higher than a 2.0.
2. The degree conferred (for example, B.A., B.S., B.F.A.) will be based upon the student’s first major. All majors will be indicated on the student’s academic transcript. The “first major” is the one with the earliest submission date. A student who wants his or her “first major” to be the one with the more recent submission date should make this change at the registrar’s office (Lucas Administrative Center 301).

Second Bachelor’s Degree
A student who wishes to receive two bachelor’s degrees may meet the requirements for them concurrently or consecutively.
1. In order to receive two bachelor’s degrees on the same date, a student must:
   a. Complete requirements for both degrees.
   b. Complete both degrees based on the same catalog. See the Catalog of Record section for more information.
   c. Earn a minimum of 30 semester credits from NKU* in addition to the hours required for the first degree.
   d. The student must earn a minimum of 60 semester credits from NKU.
2. A student wishing to earn a second bachelor’s degree after receiving the first must:
   a. Complete major requirements for the second degree.
   b. Earn a minimum of 30 semester hours from NKU beyond the credits earned for the first degree. Of these at least 12 must be in the major field for the second degree.

   *Note: For the purposes of the policies related to graduation and graduating with honors, courses taken through the Greater Cincinnati Consortium of Colleges and Universities or the Southwestern Ohio Council for Higher Education are treated as though they were taken from NKU.

Mandatory Senior Survey
1. Completion of the senior survey is a bachelor’s degree graduation requirement.
2. A student is eligible to take the survey after an application for graduation has been processed.
3. An email notification with information about the online survey is sent to an eligible student during the semester in which graduation is expected.
4. A student who fails to participate in the senior survey will not be able to receive their diploma until the survey is completed.
5. For more information, visit the website (ppb.nku.edu/research/seniorsurvey/current.html).

Requirements for an Associate Degree
In order to receive an associate degree, a student must:
1. Complete a minimum of 60 semester credit hours, the last 20 of which must be taken from NKU*.
2. Complete developmental coursework, if required.
3. Complete the general education requirements for an associate degree.
4. Complete the requirements of the major for associate degree candidates.
5. Remove all incomplete grades by earning a grade of A through F in place of each one.
6. Earn an overall GPA of at least 2.00 (excluding developmental coursework) and a GPA of 2.00 in the major (unless the department has a higher requirement for the GPA in the major).
7. Satisfy all financial and administrative obligations to the university.
8. **Apply to graduate.**
   *Note: For the purposes of the policies related to graduation and graduating with honors, courses taken through the Greater Cincinnati Consortium of Colleges and Universities or the Southwestern Ohio Council for Higher Education are treated as though they were taken from NKU.

Applying to Graduate – Associate Degree
To apply to graduate with an associate degree, a student must:
1. Have a program certification form on file.
   a. The form is available online and must be signed by the department chair (or designee) of the student’s major field of study.
   b. The signed form should be submitted to the registrar’s office (Lucas Administrative Center 301) after the student completes 30 semester hours and must be filed no later than the semester preceding the one in which the student plans to graduate.
   c. The program certification form must be submitted prior to, or concurrently with, the application for degree candidacy, described below.
2. File an application for undergraduate degree candidacy in the registrar’s office (Lucas Administrative Center 301). The application is available online through myNKU and should be submitted by the following dates.
   - For fall graduation.............................................April 22
   - For spring graduation.................................October 22
   - For summer graduation...............................April 22
3. Pay the application to graduate fee.
   a. For fall semester graduation, apply for undergraduate degree candidacy:
      - By April 22 .......................................................$ 50
      - Between April 23 and Aug. 8..........................$ 80
      - Between August 9 and Oct. 31.......................$100
      - After October 31*..............................................$100
      *Graduation applications submitted after October 31 will not be processed for fall semester graduation unless special approval is obtained. Those graduating with an associate degree must receive permission from the associate dean of their college. Even with that approval, there is no guarantee that the application can be processed in time for fall graduation.
   b. For spring semester graduation, apply for undergraduate degree candidacy:
      - By October 22 ..................................................$ 50
      - Between October 23 and January 8...................$ 80
      - Between January 9 and March 30....................$100
      - After March 30*..............................................$100
      *Graduation applications submitted after March 30 will not be processed for spring semester graduation unless special approval is obtained. Those graduating with an associate degree must receive permission from the associate dean of their college. Even with that approval, there is no guarantee that the application can be processed in time for spring graduation.
   c. For summer semester graduation, apply for undergraduate degree candidacy:
      - By April 22 .......................................................$ 50
Graduation Ceremonies

Each year, NKU holds two graduation ceremonies: one in May and one in December, each occurring on the weekend following final exams. **NOTE:** Participating in these ceremonies does not mean that one has graduated.

The graduation ceremony is held in The Bank of Kentucky Center and is currently followed by a reception for graduates, their guests, and the faculty, staff, and administrators participating in the graduation ceremony. At this time, there is no limit to the number of guests that a graduate can invite, and guests are not required to have a ticket.

In order to participate in the December commencement ceremony, an undergraduate student must have either:

1. Completed all classes required for the degree.
   -- OR --

2. Be enrolled that fall in all classes needed to complete the degree.

In order to participate in the May commencement ceremony, an undergraduate student must have either:

1. Completed all classes required for the degree.
   -- OR --

2. Be enrolled that spring in all classes needed to complete the degree.

Exceptions to this policy can be approved only by the vice provost upon recommendation of the dean of the college that houses the student’s major.

Honor Code

The student honor code is a commitment by students of NKU, through their matriculation or continued enrollment at the university, to adhere to the highest degree of ethical integrity in academic conduct. It is a commitment individually and collectively that the students of NKU will not lie, cheat, or plagiarize to gain an academic advantage over fellow students or avoid academic requirements.

The honor code specifies that an NKU student shall not:

1. Engage in any conduct involving academic deceit, dishonesty, or misrepresentation.
2. Give, receive, or use unauthorized or prohibited information, resources, or assistance on an examination, assignment, or graduation requirement.
3. Commit plagiarism (for example, representing another’s work, in whole or in part, as one’s own) on any examination, assignment, or graduation requirement (including those involving use of the web, Internet, or other electronic resources).
4. Write, take, research, develop, prepare, or create an examination, assignment, or graduation requirement for another student, in whole or in part.
5. Submit an examination, assignment, or graduation requirement written, taken, researched, developed, prepared, or created by another person, in whole or in part.
6. Submit an examination, assignment, or graduation requirement that the student has or will submit for credit in another course without express approval from the professors in each of the courses.
7. Prevent or interfere with the use by other students of any library, laboratory, studio, field, or other course-related resource.
8. Damage or impair any library, laboratory, studio, field, or other course-related resources or another student’s completed assignments.

The consequences of violating the honor code are described in detail in the Code of Student Rights and Responsibilities, section 5.G (http://deanofstudents.nku.edu/policies/student-rights.html).

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Instructor and Course Evaluations

NKU takes instructor and course evaluations very seriously. Evaluations are an important means of gathering information about instructors and courses. The information submitted will be used for the enhancement of student learning opportunities. It is an important responsibility of NKU students to participate responsibly in the instructor and course evaluation process and to include thoughtfully written comments.

Evaluation periods begin one week prior to final exams for the eight-week courses or two weeks prior to final exams for a full-semester course. Students are notified via email when the online evaluation process is available and are sent a reminder every three days until evaluations are completed. The evaluations ask students to reflect upon what they have learned in each of their courses, the extent to which they have invested the necessary effort to maximize learning, and the role the instructor played in the learning process.

Students who complete an evaluation for a particular course or select “opt out” on the online evaluation instrument will have access to their course grade as soon as the grade is submitted by the instructor.

Students who do not complete the course evaluation and do not select “opt out” on the online evaluation instrument will incur a two-week delay in viewing the course grade, obtaining an unofficial and official transcript, and running a degree audit. The delay starts after the university’s official date for grade availability.

Student evaluations are strictly confidential, and results are not available to instructors until after final grades for the course are posted. The university has established extensive precautions to prevent individual student comments from being identified.

For more information and to view the instructor and course evaluation schedule, visit the student evaluation home page (http://eval.nku.edu).

Misrepresentation of NKU Credentials

Any person reporting their accomplishments or relationship with NKU is expected to do so in a completely truthful manner. Misrepresentation of accomplishments may relate to, but is not limited to, grades, coursework, co-curricular activities, honors, certificates, and degrees. Anyone misrepresenting his or her work or accomplishments at NKU may be barred from future enrollment and graduation from NKU. In addition, such behavior may be subject to criminal prosecution.

Prior Learning Assessments

In this section are Prior Learning Assessments that are available to be transferred for credit at NKU. The hours that a student can apply toward graduation through prior learning assessments is governed by the graduation requirements. Appeals can be made to the dean (or designee) of the college where the student’s major is housed regarding Prior Learning Assessment credit and residency requirements. Students cannot use Prior Learning Assessment credit to replace an unsatisfactory grade in their GPA. However, students who attempt and pass a form of Prior Learning Assessment credit may still use this satisfactory credit to meet program, degree, and graduation requirements. Finally, NKU Prior Learning Assessment credit will only be granted for students who have enrolled at NKU.

Advanced Standing

Upon recommendation by the appropriate chair and with the approval of the appropriate dean, a currently enrolled student may receive advanced standing credit by providing specific department requirements. A student may obtain an application for advanced standing credit from the registrar’s office (Lucas Administrative Center 301). Students must follow the procedures printed on the application. There is a fee for each course in which a student receives advanced standing credit. This credit may be taken for a letter grade or pass/fail as determined by the department chair prior to receiving credit.

Credit by Examination

Advanced Placement (AP)

High school students may receive credit by earning the required score on an approved AP examination. An appropriate number of semester hours will be awarded, and a grade of pass (P) will be assigned for successful completion of approved courses. Information concerning the AP program may be obtained from a high school counselor. Official AP scores should be sent to NKU’s Office of Admissions (Lucas Administrative Center 400). Additional information on regulations and approved NKU programs for AP credit may be obtained from the Office of Admissions. Examination scores range from 1 to 5. Subject areas in which a student may receive credit from NKU by earning acceptable scores are listed in the Appendix.

Credit for Prior Learning Examination (CLEP)

Currently enrolled, matriculated students can receive credit for certain approved courses by passing an examination in a subject in which they have demonstrated exceptional ability. Students may obtain an application for the examination from the Office of the Registrar, Lucas Administrative Center 301. There is a fee for each examination attempted. These examinations are graded as pass/fail. However, some departments may have minimum passing scores. If a failing grade is earned, the course will not be posted to the student’s transcript. If a passing grade is earned, the student’s NKU transcript will indicate the class as a Credit for Prior Learning Examination (CLEP).

College Level Examination Program (CLEP)

CLEP, a national program of credit by examination administered by the College Board, was adopted at NKU to provide individuals with an opportunity to earn credit by examination. The Office of Testing Services at NKU is a recognized CLEP testing center and provides information about the tests as well as administers them. A grade of pass (P) will be assigned for the successful passage of a CLEP examination. Students are urged to consult their advisors before registering for CLEP exams. NKU requires submission of an official score report. Check the university’s testing website (http://testing.nku.edu) for updates. Please see the Appendix for specific course equivalences. (The university reserves the right to revise these listings in accord with recommendations from the American Council on Education).

DSST Examinations

The DSST credit-by-examination program, recommended by the American Council on Education, is a form of prior-learning assessment that gives students the opportunity to receive college credit as a result of their test scores. The Office of Testing Services at NKU is a recognized DSST testing center and provides information about the tests as well as administers them. A grade of pass (P) will be assigned for the successful passage of a DSST examination. Students are urged to consult their advisors before registering for DSST exams. NKU requires submission of an official score report for evaluation by NKU standards. Check the university’s testing website (http://testing.nku.edu) for updates. Please see the Appendix for specific course equivalences. (The university reserves the right to revise these listings in accord with recommendations from the American Council on Education).

Financial Industry Regulatory Authority Examination (FINRA)

NKU students who have taken and received a passing score on a Financial Industry Regulatory Authority (FINRA) examination (as determined by the Department of Accounting, Finance, and Business Law) will receive credit for an equivalent NKU course. Please see the Appendix for specific course equivalences.
International Baccalaureate (IB)
High school students completing this rigorous program may receive credit by earning the required score in a specific subject. An appropriate number of semester credit hours will be awarded the grade of pass (A) for successful completion of approved courses. To earn credit, the student must request that an official transcript issued by the New York office of the International Baccalaureate be sent to the Office of the Registrar. Additional information on regulations and approved NKU programs for IB credit may be obtained from the Office of the Registrar. Please see the Appendix for specific course equivalences.

Credit for Prior Learning Portfolio (CPLP)
Students may receive credit for certain approved courses via portfolio development for learning that has occurred through their military, career, and non-academic experiences. A portfolio is a set of written documents (and in some cases, oral supplements) that demonstrate experiential learning equivalent to the learning objectives of a specific course. Prior to development of a portfolio, the student must schedule a meeting with the Office of Educational Outreach to determine program eligibility. For each portfolio attempted, the student will work with a faculty evaluator who will determine whether the portfolio and the student’s experience meet the learning objectives of a specific course. Credit is granted upon recommendation of the faculty evaluator with approval from the appropriate department chair and dean. For more information about Credit for Prior Learning Portfolio, email edoutreach@nku.edu or call the Office of Educational Outreach at 859-392-2400.

Military and Department of Defense
Credit may be earned for courses successfully completed by an individual in residence at approved military and DOD schools. Courses approved and recommended by the Guide to Evaluation of Educational Experiences in the Armed Forces, a publication of the American Council of Education, will be considered for credit. Students should submit appropriate documentation of military coursework to NKU’s Office of Transfer Services.

American Council on Education Non-Collegiate Sponsored Instruction (ACE)
Credit may be awarded based on educational programs offered by many large corporations or nonacademic institutes. Only programs approved and recommended by the American Council on Education will be considered for credit. Students may request evaluation of credit by sending the ACE transcript “Registry of Credit Recommendations” and appropriate course outline(s) to the registrar’s office (Lucas Administrative Center 301). More information can be obtained by calling 859-572-6056.

Correspondence Courses
No more than nine semester credit hours required for a degree may be earned by correspondence. A student desiring to enroll in correspondence courses from another institution while he or she is a student at NKU must obtain prior permission from the appropriate academic dean in order for courses to transfer to NKU.

World Language Incentive Program
WLIP is intended for students who are enrolling in their first language course at NKU and who have prior experience in that language. French, German, and Spanish students must take the placement test which is available free-of-charge online (http://arts.science.nku.edu/departments/worldlanglit/placement/webcape.html) or in the language lab (Landrum Academic Center 103).

Students who place into a course above the 101 level should go to Landrum Academic Center 134 for the electronic permit for their indicated course, or they may consult the department coordinator or the department chair at worldlanglit@nku.edu. Students who are enrolling in their first language course at NKU who have prior experience in a language other than French, German, or Spanish should consult the Department of World Languages and Literatures (Landrum Academic Center 134) about enrollment in the appropriate course and WLIP credit.

Students who enroll at NKU in world language courses at the 102 level or higher and who complete one course in the same language with a grade of C- or better are eligible to receive credit for the 101 course in the same language. Students who enroll at NKU in a world language course at the 201 level or higher and complete two courses at the equivalent level or higher in the same language with a grade of B- or higher are eligible to receive up to 12 hours of retroactive 100- or 200-level credit in the same language. Transfer students may be eligible for retroactive credit after completing one course at NKU with a grade of B- or higher. Transfer students should contact the Department of World Languages and Literatures at 859-572-7650 to discuss the retroactive credit option.

Upon completion of the appropriate course(s), the student must submit an application for retroactive credit to the chair of the world languages and literatures department. Application forms are available in the department office, Landrum Academic Center 134.

Additional information regarding world language placement is available online (http://arts.science.nku.edu/departments/worldlanglit/placement.html). Students who receive credit through AP or CLEP exams are still eligible for the World Language Incentive Program. The total language credits from all sources cannot exceed 12 hours. Requests for credit from students who complete courses in the 101-202 sequence out of order require the approval of the department chair, the assistant dean of the College of Arts and Sciences and the vice provost.

Prerequisites and Co-Requisites
A prerequisite is a requirement that must be satisfied before taking a specific course. If a student is enrolled in a prerequisite course at the time of registration for the next semester, the student may conditionally register for the course that requires the prerequisite. However, if the prerequisite course is not completed successfully, the student may be withdrawn from the course by the department. A co-requisite is a course that must be taken concurrently with another course. Both prerequisites and co-requisites are listed in the course descriptions in the catalog.

1. The university’s computerized registration system will not allow students to register for courses for which they lack the stated prerequisites and will not allow them to register for a course without registering for its co-requisite.
2. Students who believe they have met the intent of the prerequisite or have a justifiable reason for skipping the co-requisite should see the department chair of the department that offers the course. Students should provide the department chair with documentation justifying their request. If convinced that the student can succeed in the course, the department chair can issue a permit for the student to take a course without the prerequisites or co-requisites.
3. Because they are not required to present transcripts at the time of admission, non-degree students must consult the department chair for each course he or she wishes to take that has a prerequisite. Unless the student can document that he or she meets the course prerequisites, the student may not be allowed to enroll in the course. If convinced that the student can succeed in the course, the department chair can issue a permit for the student to take the course.

Privacy Rights: FERPA
The Family Educational Rights and Privacy Act affords students certain rights with respect to their education records, including:
1. The right to inspect and review the student’s education records within 45 days of the day the university receives a request for access.
   a. Students should submit to the registrar, dean, head of the academic department, or other appropriate official a written request that identifies the record(s) they wish to inspect.
   b. The university official will make arrangements for access and notify the student of the time and place where the records may be inspected.
   c. If the records are not maintained by the university official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student’s education records that the student believes are inaccurate or misleading.
   a. Students may ask the university to amend a record that they believe is inaccurate or misleading. They should write the university official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.
   b. If the university decides not to amend the record as requested by the student, the university will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to consent to disclosures of personally identifiable information contained in the student’s education records, except to the extent that FERPA authorizes disclosure without consent.
   a. Disclosure of the student’s consent is permissible to school officials with legitimate educational interests. A school official is a person employed by the university in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the university has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Regents; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.
   b. FERPA allows the institution to routinely release information defined as “directory information.” The following student information is included in the definition: the student’s name, address, email address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletics teams, dates of attendance, enrollment status (including full time, part time, not enrolled, withdrawn, and date of withdrawal), degree and awards received, and the most recent previous education agency or institution attended by the student. When a student wants any part of the directory information to remain confidential, an official request form must be completed in the registrar’s office (Lucas Administrative Center 301) within the first five days of each class term.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by NKU to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:
   Family Policy Compliance Office
   U.S. Department of Education
   600 Independence Ave., SW
   Washington, DC 20202-4605

5. Students who have questions about FERPA, would like to grant access to their educational records to a third party, or wish to see their records should contact NKU’s Office of the Registrar at 859-572-5556, email the registrar at registrar@nku.edu, or check the website (http://registrar.nku.edu/FERPA.html).

Registration Holds

Registration holds prevent students from registering for courses. They are most often established because the student is required to meet with his or her advisor prior to registering or because the student owes money to the university. Registration holds must be resolved before a student can register online via myNKU. The student can still search for courses and place them in the registration cart, but the student must contact the office or department that placed the hold and resolve the issue before being able to register. For advising holds, the student should contact his or her academic advisor to make arrangements for clearing the advising hold. If a student has a fee-related hold, the fee must be paid before the hold will be released. Generally, holds can be released Monday-Friday between 8:30 a.m. and 4:30 p.m. For more information about holds, students should visit the web (http://registrar.nku.edu/Registration/Registrationholds.html).

Repeating a Course

The provisions of this policy apply when a student is retaking a course with the intention of improving the grade on the student’s transcript.

1. Throughout their undergraduate careers, students are permitted no more than four opportunities to repeat courses for grade replacement.
   a. It is permissible to repeat an elective or required course (that is, a major, minor, or general education requirement or a course taken for general interest) exercising one of the student’s four repeat opportunities.
   b. A student may not repeat the same course more than three times (original attempt plus two repeats) without special permission from the dean of the college offering the course.
   c. If a student officially withdraws from a course taken under the repeat option, that course does not count toward the limit of four opportunities to repeat a course.
   d. A student may use a repeat option to take the CLEP subject examination instead of repeating a course in which he or she received a D or F provided that the student has the written approval of the dean of the college that houses the course.
   e. CAUTION: If a student receiving financial aid wishes to repeat a course more than once, the student should consult the Office of Student Financial Assistance to determine how this will affect his or her financial aid.

2. When a course is repeated, the last grade – not necessarily the best grade – prevails. The original grade remains on the transcript but is removed from the GPA computation.

3. If a student has used all four repeat opportunities and is required to retake a course in which he or she received a D or F was received to proceed with her or his academic program, both grades will remain on the permanent record. Both grades will be calculated into the GPA and for fulfilling major requirements. However, if the course is passed both times, only the initial passing grade is used to satisfy institutional semester hour requirements for a degree.

4. The repeat option may not be used in certain circumstances, specifically:
   a. The repeat option may not be used to replace a letter grade of A through F with a P/F grade.
   b. The repeat option does not apply when a student repeats an independent study, directed research, special topics, or similar course in which the course content is significantly different each time the student enrolls.
   c. Because NKU transfers in credits but not grades, repeating an NKU course at another college or university will not impact the grade
Responding to sex discrimination.

Sexual Discrimination and Sexual Misconduct

As members of the campus community, all university students, faculty and staff as well as guests and visitors have the right to be free from sexual misconduct. The university does not tolerate gender-based misconduct and does not discriminate on the basis of sex in its education programs. The university is committed to treating those involved in an allegation of sexual misconduct with dignity and respect. Investigative and hearing proceedings are conducted in a timely, thorough, and impartial manner. This policy has been developed to reaffirm these principles and to provide recourse for those individuals whose rights have been violated. This policy is intended to define expectations and to establish a mechanism for determining when those expectations have been violated. More information on the university’s sexual misconduct policy can be found in the Code of Student Rights and Responsibilities (http://deanofstudents.nku.edu/policies/student-rights.html)

NKU prohibits all forms of discriminatory harassment that are unlawful under applicable local, state, and federal law, including sexual harassment. It is the policy of the university to provide every employee and student with an environment conducive to productivity and learning, free from intimidating, hostile, or offensive behavior. The university condemns all forms of sexual harassment on the part of any employee, student, or vendor toward any other employee, student, or vendor. Sexual harassment is the making of unwelcome and offensive sexual advances or of sexually offensive remarks or acts, especially by one in a superior or supervisory position or when compliance is made a condition of continued employment or advancement. Unwelcome behavior is behavior that is not welcome, not solicited, and not wanted by the offended person.

Title IX prohibits gender discrimination at all institutions receiving federal funding, including Northern Kentucky University. These requirements apply to all forms of sexual misconduct including, but not limited to sexual harassment and sexual violence, and are important for preventing and effectively responding to sex discrimination.

If you are a student who believes you have been subjected to (1) sexual harassment by University faculty or staff; or (2) any other form of gender discrimination under Title IX, you may report such misconduct or file a formal complaint with the Title IX Coordinator in the Office of the Dean of Students. Complaints must be submitted in writing. If you are a student who believes you have been or are the victim of sexual harassment, including sexual assault, sexual violence or other sexual misconduct, by another University student, you may report such conduct or file a complaint under Title IX with the Title IX Coordinator. Complaints of student sexual misconduct are addressed by the Code of Student Rights and Responsibilities. Federal and state laws prohibit the taking of retaliatory measures against any individual who files a complaint in good faith. Contact information for the Title IX Coordinator, as well as additional information about Title IX legislation, may be found online (http://deanofstudents.nku.edu/titleix.html).

A report may also be filed by calling university police at 859-572-5500, the Office of the Dean of Students at 859-572-5147 or by completing an incident report form on the dean of students office website (http://deanofstudents.nku.edu).

Violence Against Women

The Norse Violence Prevention Center provides support and advocacy for students who have experienced sexual and other types of violence. The center is located on the third floor of the Votruba Student Union and may be reached by phone at 859-572-5685.

Student Code of Conduct

The Code of Student Rights and Responsibilities is designed to ensure that students enjoy intellectual freedom, fair and legal treatment, the freedom of speech both on and off campus, freedom of press, the right of peaceable assembly, the right to petition for redress of grievances, the right to a fair hearing of charges made against one, and the right to responsible participation in the university community. Rights imply responsibilities; therefore members of the university community must show both initiative and restraint. The code is endorsed by the Student Government Association, Faculty Senate, Staff Congress, and university administration, and it was approved by the NKU Board of Regents.

It is incumbent upon students to be aware of university regulations. Ignorance of these regulations does not excuse students from adherence to them. The Code of Student Rights and Responsibilities is available online (http://deanofstudents.nku.edu/policies/student-rights.html).

Tobacco-Free Policy

Northern Kentucky University is a tobacco-free campus.

Tobacco use at all university-owned, -operated, and -leased properties is covered by this policy. Tobacco products are therefore prohibited in all interior and exterior building space, outside ground areas, walkways and parking structures, indoor and outdoor athletic facilities, and vehicles.

Numerous products are prohibited by this campus policy. They include, but are not limited to, cigarettes, cigars, pipes, hookah-smoked products, and oral tobacco such as spit/spitless, smokeless, chew, and snuff products. Products that contain tobacco flavoring or simulate tobacco use, such as electronic cigarettes, are also prohibited.

Violations of this policy will be addressed by the appropriate administrative departments. Concerns about tobacco use will be respectfully addressed. Support resources are available online (http://tobaccofree.nku.edu).

Transcript Availability

Transcripts of NKU coursework are available upon request. Students must request their official transcript through the National Student Clearinghouse. More information on this process can be found on the registrar’s office.
website. Students may view and print an unofficial transcript through myNKU. Availability of official transcripts is limited at the end of each semester to accommodate final grading. **NOTE**: The section on instructor and course evaluations explains why a student’s access to his or her transcript can be delayed.

Northern Kentucky University charges a fee for each transcript. For regular mailed or picked-up transcripts, the fee is $7 per copy. For expedited service transcripts (one to two business days), the fee is $10 per copy. Normal processing time for a non-expedited transcript is up to 15 business days. Processing time does not reflect delivery time. All transcripts to be mailed from NKU will only be mailed via U.S. Postal Services with first class postage.

**Transcripts from Other Institutions**

When NKU receives transcripts from another institution, the transcripts are considered property of NKU. NKU does not reproduce or copy transcripts received from any sending institutions. Students should seek copies of transcripts from the institution that originally issued the transcript.

**Transfer Credit**

**Transfer of Undergraduate Credit**

The policies that follow apply to transfer of undergraduate credit to an NKU undergraduate degree. Once NKU receives all of the relevant transfer documentation, NKU will complete a course-by-course evaluation of the student’s transfer coursework. The process normally takes at least three weeks.

1. NKU requires official transcripts from all previously attended institutions. The transcript must include coursework completed up to the application date.
2. Students enrolled in courses at a postsecondary institution (other than NKU) at the time of application will have one semester to provide a final, official transcript showing all grades and credits earned.
3. When applicable, students should request that the Kentucky General Education Transfer Policy certifications be included on official transcripts.
4. Students with CLEP credit should submit their official transcripts to the Office of the Registrar (Lucas Administrative Center 301). Students with AP credit should submit their official transcripts to the undergraduate admissions office (Lucas Administrative Center 401).
5. Only coursework from a regionally accredited institution or an institution with an approved articulation agreement will be considered for awarding of transfer credit.
6. Effective fall 2009 forward, coursework completed at a regionally accredited institution with a grade of D- or higher will be evaluated for transfer credit.
7. Transfer work and grades:
   a. Students who transferred to NKU between fall 2004 and summer 2009 will have the grades associated with transfer work included in their GPA calculation based on NKU’s policies and procedures. Changing their catalog of record or being readmitted to the University will not change this policy: that is, grades associated with courses transferred to NKU will continue to be included in the calculation of their GPA.
   b. For students transferring to NKU after the summer of 2009, credits may be accepted in transfer, but no grades or GPA will be transferred to NKU. In other words, transfer students with no prior NKU coursework will begin NKU with a new GPA.
8. Courses evaluated as developmental in content will not be considered for credit hours. These courses may be used to satisfy a course prerequisite or to meet statewide Council for Postsecondary Education admission requirements.
9. Students may be required to take a placement test in English, mathematics and/or reading if evidence of college readiness is not demonstrated, as prescribed by state regulation (13 KAR 2:020). Students will not receive transfer credit nor be exempt from taking developmental courses into which they are placed after initial admission to the university.
10. Students who earn transfer credit (or a combination of transfer credit and NKU credit) within one semester hour of that necessary for completion of a general education, major, or minor course requirement will be considered to have completed that requirement. This does not affect the number of transfer credits awarded.
11. A transfer student may not be awarded credit for all courses in a major. In general, it is recommended that at least half the work in a major be taken at NKU, but academic departments may set specific limits on the amount of transfer allowed for their majors. The chair of the student’s major will make the final determination of the requirements for the student’s major.
12. Transfer coursework for post-baccalaureate students is subject to departmental approval and is not evaluated in its entirety. Post-baccalaureate students are considered to have completed general education requirements.

**Transfer of Professional or Graduate Credit**

The following applies to transfer of professional or graduate credit to an NKU undergraduate degree. A student who receives early admission to certain professional or graduate schools may, under certain conditions, transfer credits back to NKU from that school to meet NKU’s requirements for graduation with the bachelor’s degree.

1. Acceptable sources of transfer are usually medical schools, dental schools, law schools, schools of social work, and schools of veterinary medicine. Excluded are schools that grant a bachelor’s degree to students who transfer credits to them.
2. The source of the transfer credit must be accredited by a regional accrediting association.
3. The student must complete at least 90 semester hours of work at NKU, meet general education requirements of the university before he or she leaves, and satisfy requirements of her or his major.
   a. Courses taken at the graduate or professional school may be used to meet major requirements at the discretion of the student’s advisor and department chair with the approval of the appropriate dean and the registrar.
4. Transfer of credit must occur by the end of a student’s initial year of post-bachelor’s study.
5. To transfer credit, students must have an appropriate transcript sent to NKU and must also complete an application for the bachelor’s degree from NKU.
6. A student who receives early admission to a graduate or professional school and who meets the above conditions is urged to discuss with his or her chair the possibility of transferring credit from the school to NKU.
7. Students are warned that in a few cases their early admission to graduate or professional school may permanently bar them from licensure in certain states. It is the responsibility of the student to ascertain requirements of the state in which he or she plans to practice.
**Withdrawing from the University**

**Withdrawal from the University – Student Initiated**

1. A student may withdraw from the university — that is, withdraw from all classes for which he or she is registered — at any time prior to the 11th week of classes.
2. The Office of the Registrar will determine the date of withdrawal, and process the withdrawal as long as it falls within approved withdrawal-date guidelines.
3. **Grades**
   - **Weeks 1 through 3 or equivalent**: if a student withdraws prior to the end of the third week of the semester or its equivalent, the transcript will not reflect that the student was enrolled in the classes.
   - **Weeks 4 through 10 or equivalent**: if the student withdraws after the third week (or its equivalent) and prior to the end of the 10th week (or its equivalent), the student will receive a grade of **W** in each course for which he or she was registered.
   - The specific dates for sections (a) – (b) can be found in the online registration guide and the online academic calendar.
   - **EXCEPTION**: In cases of academic dishonesty, the instructor will determine the student’s grade.
4. **Other responsibilities**
   - A student withdrawing from the university should check with Student Account Services to determine the financial implications of the withdrawal and to settle any money owed to the university or to the student.
   - A student who has financial aid and is withdrawing from the university should check with the Office of Student Financial Assistance as there may be important consequences for the student’s financial aid.
   - If the student leaving the university lives in university housing, he or she should contact the housing office and complete a contract termination form [here](http://housing.nku.edu/content/dam/housing/docs/General/Contract_Termination_1011.pdf). A student withdrawing from the university is not eligible to live in university housing.

**Withdrawal from the University – Military Purposes**

1. When a student is called into active military status on an emergency basis and therefore cannot complete coursework for a given semester, the timing of the withdrawal affects whether the student receives a **W** or the earned grade in each course.
   - **First 12 weeks or equivalent**: the student will receive a withdrawal (**W**) in each course with full refund if call-up is within the first 12 weeks of the semester.
   - **Weeks 13 and 14 or equivalent**: the student may elect to receive the grade earned to-date in each course or receive a **W** in each course with a full refund if call-up is during the 13th or 14th week of the semester.
   - **Weeks 15 and 16 or equivalent**: the student will receive the grade earned to-date in each course if call-up is in the 15th or 16th week of the semester.
2. The student should present his or her orders at the registrar’s office (Lucas Administrative Center 301) or fax them to 859-572-6094. If the student does not yet have written orders, he or she will have 60 days in which to present the orders. A family member or friend may bring in a copy of the orders in the student’s absence. If this deadline is not met, the student’s grades will revert to **F**, and he or she will not be eligible to receive a refund. In the situation in which the student has a choice, he or she must take either the grades or drop all courses for a full refund.

**Withdrawal from the University – Involuntary Withdrawal**

Students who are dismissed from the university for administrative or disciplinary reasons will be withdrawn from all of their classes and will receive a **W** for each class in which they were enrolled. Standard NKU financial policies will apply. Students should check with Student Account Services.
**Academic Support**

**Advising**

**NKU’s Academic Advising Philosophy**

Academic advising at NKU is an integral part of the learning process. As such, academic advising is a collaborative effort that encourages students to develop clear educational plans and choose realistic life/career goals. In order to assist students in realizing their full potential at the university, faculty and staff advisors at NKU embrace the following beliefs about academic advising:

- *The primary responsibility for decision-making rests with the student.*
- Students are often unaware of the demands and expectations of the university and therefore need to clearly understand the culture of higher education.
- Academic advising is not an isolated event but an ongoing communication between the student and advisor in which mutual trust and respect must be established.
- Academic advisors recognize and accept that each student is unique.
- The core of all academic advising is the development of a holistic educational plan that facilitates the student’s intellectual and personal growth and includes an academic plan that identifies the most appropriate courses to satisfy degree requirements in an efficient and effective manner.

**Primary Goals and Objectives of Academic Advising**

As a result of the collaborative advising process the student will:

- Define and develop educational and career goals that are consistent with their personal values, interests, and talents.
- Develop a rapport with their advisors to enhance their academic performance.
- Utilize university resources to support their educational development.
- Develop an understanding of university policies, procedures, and requirements.

The desired outcome of the above goals is that students learn to make informed and increasingly independent decisions about their educational plans and other academic issues. Accordingly, as students become more knowledgeable about curriculum, policies, and procedures, they should become less reliant on advisors for information, but they will continue to consult advisors or designated faculty concerning university requirements, graduate school admission, career opportunities and most importantly graduation requirements (http://registrar.nku.edu/GraduationInformation/Graduation_Requirements.html).

**Students’ Responsibilities in the Advising Process**

Students should be active participants in developing their educational plan. Central to this responsibility is developing a strong relationship with the academic advisor by:

- Preparing for academic advising meetings.
- Actively participating in advising discussions.
- Maintaining personal academic records.
- Developing an understanding of all graduation requirements:
  - Major/minor requirements.
  - Foundation of Knowledge/general education.
  - University requirements.
- Learning how to access campus and online resources.
- Informing academic advisors regarding issues that may impact academic success.
- Proactively participating in planning for their post-graduate career.

**Advisors’ Responsibilities in the Advising Process**

The academic advisor will serve as a teacher and facilitator to enable students to be successful by developing appropriate academic and post-graduate career plans. Central to this process is serving advisees by:

- Maintaining and communicating accurate and current documentation of student records.
- Communicating information about current university policies and procedures through a variety of channels.
- Assisting advisees in developing decision-making skills and encouraging them to take responsibility for their decisions.
- Facilitating connections between students and appropriate resources when needed.
- Participating in professional development activities relevant to advising.

**Advising Requirements for Registration**

The proper selection of courses is important for every NKU student. Therefore, all students are encouraged to meet with their academic advisor prior to registration each term. Some students are required to meet with their academic advisor prior to registration. All degree-seeking undeclared and University Studies students assigned to Norse Advising (http://advising.nku.edu) are required to meet with their advisor before registering for classes each semester. All non-degree students on probation are also required to meet with an advisor prior to registering for classes.

NOTE: Students on academic probation will not have access to online registration until they comply with the following. They MUST first see their academic advisor to obtain registration approval and should check with their advising center to determine if there are additional requirements.

Here is a list, by college, showing which students MUST see their academic advisor prior to registration.

**COLLEGE OF ARTS AND SCIENCES** – All College of Arts and Sciences students are required to meet with an advisor:

- Anthropology
- Art
- Biological sciences
- Chemistry
- English
- History and geography
- Mathematics
- Music
- Philosophy
- Physics and geology
- Political science
- Psychology
- Sociology
- Theatre and dance
- Undeclared
- World languages and literature

**COLLEGE OF EDUCATION AND HUMAN SERVICES** – The following students are required to meet with an advisor:

- All pre-education majors (including secondary education students).
- Counseling, social work, and mental health/human services: all students.
Exercise science: all majors.
Athletic training: all pre-majors.

COLLEGE OF INFORMATICS – The following students are required to meet with an advisor:

- Business informatics: all freshman and sophomore students.
- Communication: students with 45 and under earned credit hours.
- Computer science, computer information technology, and data science: students with 45 and under earned credit hours.
- Undeclared: all students.

COLLEGE OF HEALTH PROFESSIONS – The following students are required to meet with an advisor:

- Nursing students: all pre-major undergraduates.
- Four-year BSN, the accelerated BSN, and the RN-to-BSN programs: all students.
- Respiratory care and radiologic technology: all pre-majors and all new majors.

HAILE/U.S. BANK COLLEGE OF BUSINESS – The following students are required to meet with an advisor:

- All new majors in the Haile/U.S. Bank College of Business (freshmen, transfers, and readmits).
- All students with fewer than 30 hours earned who are currently enrolled in their first or second semester at NKU.
- Construction management and construction technology: all students.

Norse Advising
Location: University Center 210
Telephone: 859-572-6900
Fax: 859-572-6989
Web Address: http://advising.nku.edu
Hours: Monday - Thursday, 8:15 a.m. - 6:00 p.m.; Friday 8:15 - 4:30 p.m. Other hours may be available by special appointment. Summer hours vary.
Director: Pat Moynahan (interim)
Other Key Personnel:
- Associate Director: Amy Pieper
- Manager: Melody McMillan
- Coordinator, Advising Programs: Robin Theobald
- Senior Advisor: Linda Albert
- Advisors: Casey Binder, Samantha Muntis, Terkerah Washington, Emily Yeatts

Norse Advising provides a range of academic advising services, ranging from answering general questions for all students on a walk-in basis to development of academic plans for undeclared students, all University Studies students, and some students interested in but not yet admitted to one of the programs in NKU’s College of Health Professions. Norse Advising also administers the Pathfinders Program. Non-degree-seeking students may also request to meet with a Norse advisor. Norse advisors help students make well informed, timely decisions about programs of study and promote academic success.

Undeclared Students
Many entering students elect to be "undeclared" rather than selecting a major. Some undeclared students may want time to explore possible areas of interest, make appropriate choices about majors, and develop academic plans. Other undeclared students want advice about which programs might be best suited to their academic strengths and weaknesses, personal interests, and career objectives. Norse Advising helps only undeclared students whose academic interests cannot be narrowed to a specific college. Undeclared students who have focused their major choice(s) within a specific college should be advised in one of the five colleges: Arts and Sciences, Business, Education and Human Services, Health Professions, or Informatics.

University Studies Students
NKU has developed a special program for entering students who have not yet fulfilled the Kentucky Pre-College Curriculum requirements or who have not met all of the ACT admission standards. Students who have academic needs as defined by their admission status are classified as University Studies students and are advised by Norse Advising. Norse advisors help these students plan for their timely completion of pre-college curriculum requirements and discuss avenues for academic success. They also help facilitate the selection of an appropriate major upon completion of readiness standards.

First-time freshmen who are granted admission but have two or more academic deficiencies will be admitted to and must participate in an associate degree program called the Pathfinders Program.* Through the Pathfinders Program, students must participate in a variety of advising appointments, tutoring sessions and special programs to maintain their enrollment eligibility. Please visit the website for specific details (http://pathfinders.nku.edu).

*Students who are 21 years of age or older are exempt from the Pathfinders Program. Please visit the website for specific details.

Advising Services
Undeclared students, all University Studies students, and those students who are interested in but not admitted to a program in the College of Health Professions must meet formally with an academic advisor in Norse Advising each semester. During advising appointments, NA advisors provide academic advising that is focused on students’ individual needs. Specifically, NA advisors assist students in the following ways:

1. Discuss students’ academic progress.
2. Teach students how to access information related to pre-college curriculum, general education, and major or minor course requirements.
3. Clarify university policies and procedures and help students navigate the higher education system.
4. Help students learn effective decision-making skills for choosing majors.
5. Offer proactive academic counseling for students to promote academic success.
6. Help students develop educational plans based on academic strengths, personal interests and career objectives.
7. Make referrals to appropriate university faculty, staff, and services.
8. Help students begin to identify academic majors consistent with their goals and interests.

In addition to meeting students’ advising needs, the NA director (or designee) provides assistance to students with issues that need approval from the dean/assistant dean. These include, but are not limited to, withdrawal from classes, probation, suspension, and reinstatement.

Information Technology
Location: Lucas Administrative Center
Telephone: 859-572-6911
Web Address: http://oit.nku.edu

NKU’s Office of Information Technology is committed to supporting student success. It provides a variety of services. All students are urged to visit the student page of the IT website (http://oit.nku.edu/students.html) to learn about services and view guides that answer common IT-related questions about students’ academic experience, administrative experience, student life and IT services and fees.
Antivirus Software
IT wants to ensure that all student computers are safe from viruses. Information about obtaining this free software is available online (http://oit.nku.edu/security.html).

Blackboard
Blackboard is NKU’s online learning management system. Faculty often post course syllabi, assignments, reading material and other course-related materials on Blackboard for student access. Students are often expected to submit course assignments via Blackboard. To learn about Blackboard, visit the website (http://oit.nku.edu/students.html).

Computer Labs
IT provides computer labs in buildings across campus. Also, many academic departments have computer labs for their students. A full listing of lab locations is available online (http://oit.nku.edu/labs.html). Students may access software licensed by the university via the “virtual lab.” This free software installation allows students anytime, anywhere access to the software they need from any computer or tablet.

Technology Discounts for Students
Vendors offer discounts to students, so those who are buying Dell or Apple computers are eligible for a student discount. More information and links to the vendors’ websites to make purchases are available online (http://oit.nku.edu/minimumconfigurations.html).

Email/Storage
Each student at NKU is provided an email account that belongs to the student for life. All official communication from the university is directed to this email address. IT will assist students in setting up mobile devices to access their email in person at the Norse Tech Bar, University Center 252, or by contacting our IT Help Desk (http://oit.nku.edu/help.html). Also, connected to the email account is an online network storage location. Students can store and share files in this location.

Technology Help
Students have two options for technology assistance. If on campus during normal business hours, students are urged to visit the Norse Tech Bar in University Center 252. Students may also contact the IT Help Desk via phone 859-572-6911, instant message or online service request (http://oit.nku.edu/help.html).

NKU User Name and Password
Each NKU student is assigned a unique user name and a password for accessing online services at NKU. An NKU user name and password are generated and provided to new students in their acceptance letters. As a security measure, NKU passwords are required to change at least every 90 days. To activate your NKU user ID, change your NKU user account password or reset your password, visit the website (http://password.nku.edu).

Norse Tech Bar
Located in University Center 252, the Norse Tech Bar is the student destination for technology. Go there for answers to all your technology questions as well as software and hardware troubleshooting. We also offer lab computers with printers, large-format printers, computer/tablet/camera checkout and LCD screens for group work. Visit the website (http://techbar.nku.edu) for more information and hours, and follow us on Twitter for the latest news @nkutechbar.

Printing
Each semester, full-time students are credited a $12 print allowance. Beyond that allowance, students can add money to their All Card (http://allcard.nku.edu) for additional printing. More information is available online (http://oit.nku.edu/printing.html).

Technology Training
IT offers online tutorials on a variety of technology topics, such as Blackboard and Microsoft products. Tutorials and training resources are available online (http://oit.nku.edu/cite/students.html). IT also offers training to help students with the registration process. Tutorials and training resources about myNKU, the registration system, are available online (http://mynkuhelp.nku.edu).

Technology Use Policies
To ensure that NKU’s technology resources are secure, responsibly utilized, and available to everyone, the university has established policies that must be followed by all users of NKU’s technology resources. Illegal downloads of copyrighted materials and inappropriate use of technology resources is strictly forbidden. Policies are available online (http://oit.nku.edu/security/policies-and-guidelines.html).

Wi-Fi
NKU has wireless access throughout the campus. Depending on the purpose when connecting through Wi-Fi, students can select from the various NKU networks as described online.

Learning Assistance Programs

Location: University Center 170
Telephone: 859-572-5475
Email Address: laplearn@nku.edu
Web Address: http://lap.nku.edu
Director: Diane Williams
Program Coordinators:
- Developmental Mathematics: Barbara Hamilton
- Developmental Literacy: Wanda Crawford
- Writing Center and Academic Tutoring: Paul Ellis
- Supplemental Instruction: Karen Jenkins
- Math Center and Success Skills Tutoring: Jered Wasburn-Moses
Other Key Personnel:
- Academic Specialist: Mary Seifried
- Academic Specialist: Mary Golden

Full-time faculty: Wanda Crawford, Paulette Ebert, Paul Ellis, Martha Ferguson, Barbara Hamilton, Karen Jenkins, Gretchen Kauscher, Elizabeth McMillan-McCartney, Patricia Schumacher, Dempsey Smith, Jered Wasburn-Moses, Diane Williams, Natalie Williams

Services
The Learning Assistance Programs provide a variety of services to support students’ academic achievement. The services assist students with specific classes and specific skills required for academic success. LAP services include academic tutoring, math center, writing center, success skills tutoring, supplemental instruction, and developmental education.

Academic Tutoring
Academic tutoring provides FREE assistance and support for students who want or need to better understand the course content and materials of specific 100-, 200-, and some higher-level courses. To learn more about the service and how to schedule an appointment, students should visit the website (http://lap.nku.edu/academictutoring.html).

Math Center
The Math Center provides FREE tutoring to all NKU students interested in improving their understanding of course content and key concepts in
Developmental Mathematics Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAHD 080</td>
<td>College Algebra Assistance</td>
<td>2 credits</td>
</tr>
<tr>
<td>MAHD 090</td>
<td>Basic Mathematical Skills</td>
<td>3 credits</td>
</tr>
<tr>
<td>MAHD 091</td>
<td>Elementary Geometry</td>
<td>3 credits</td>
</tr>
<tr>
<td>MAHD 094</td>
<td>Essential Algebra (Part III)</td>
<td>2 credits</td>
</tr>
<tr>
<td>MAHD 095</td>
<td>Essential Algebra</td>
<td>4 credits</td>
</tr>
<tr>
<td>MAHD 099</td>
<td>Intermediate Algebra</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

International Developmental Literacy Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGI 080</td>
<td>Writing Lab for International Students</td>
<td>1 credit</td>
</tr>
<tr>
<td>ENGI 099</td>
<td>Writing Workshop for International Students</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

NOTE: Some college-level courses have a prerequisite that is higher than the CPE college readiness standards and could result in a student needing a developmental course(s).

Library

Telephone: 859-572-5457
Fax: 859-572-6181
Web Address: http://library.nku.edu

Associate Provost for Library Services: Arne Almquist

Hours During Regular Semesters:

- Monday - Thursday: 7:30 a.m. - 2:00 a.m.
- Friday: 7:30 a.m. - 5:30 p.m.
- Saturday: 11:00 a.m. - 5:00 p.m.
- Sunday: 12:30 p.m. - 2:00 a.m.

The W. Frank Steely Library, located in the center of campus and online, partners with many campus departments to support the academic achievement and success of NKU students. The library provides a variety of services and resources including wireless access, laptop checkout, a coffee shop, group study rooms, and computers with Internet access and Microsoft Office products. The media collection offers streaming music and video, in addition to CDs, DVDs, audiobooks, and software. An eContent area provides computers with multimedia software such as Photoshop, Acrobat Professional, Dreamweaver, and InDesign.

Other special services include research consultation (in person, by phone, by email, by chat, or by appointment); classroom instruction and embedded librarians via Blackboard courses; My Librarian and First-Year Experience services; web-based research guides and tutorials; SourceFinder (a document delivery service for obtaining materials not available at Steely Library); access to almost 200 databases, many with full-text documents; and a growing collection of electronic books. Steely Library is also a depository for many federal government publications. The Eva G. Ferris Special Collections and Schlachter University Archives contain materials related to the history of NKU and materials documenting the history and heritage of the northern Kentucky region, the Ohio River valley, the Underground Railroad, Appalachian writers, and military history.

Steely Library has reciprocal borrowing agreements with the University of Cincinnati’s Langsam Library and the three northern Kentucky public library systems in Boone County, Campbell County, and Kenton County. Students and faculty may use their NKU All Card to borrow materials from these libraries. Please visit the library’s home page for more information about its facilities and services.

NKU Bookstore, Barnes & Noble

Location: University Center Plaza Level
Telephone: 859-572-5142
Web Address: http://www.shopnku.com

Regular Semester Hours:

- Monday - Thursday: 7:45 a.m. - 6:00 p.m.
- Friday: 7:45 a.m. - 5:00 p.m.
- Saturday: 11:00 a.m. - 3:00 p.m.

Extended Hours: At the beginning of fall and spring semesters.

Barnes & Noble offers NKU students all the options for college textbooks. Students can buy new and used books, rent books, and obtain digital editions of books. The bookstore also stocks the materials required for classes.
Students looking for easy and convenient textbooks for the best price should visit the NKU bookstore website to place an online order. For books ordered online, the bookstore will box up the requested books and have them ready for pick-up.

**Student Success Center**
Located in the University Center, the Student Success Center serves as a seamless and streamlined experience to equip and empower students for success. For additional information regarding the student success center and services offered, please contact us at success@nku.edu. Services and programs available to students in the student success center include:

**Career Services**
University Center 225
859-572-5680
Career Services provides programs and services that engage and empower students to establish academic and career goals, obtain co-ops and internships, secure meaningful employment, and manage their careers for rewarding, fulfilled lives. Career Services also operates as the principal point of contact and servicing unit for employers who wish to recruit students for co-ops, internships and full-time positions. The career services team is committed to providing excellent career-related programs, services, and resources. Visit the website or stop by for details (http://careerservices.nku.edu).

**First-Year Programs**
University Center 127
859-572-5913
Northern Kentucky University freshman students have the opportunity to experience their first college year in an environment that promotes active learning, collaboration and personal development through these programs:
- Alpha Lambda Delta
- Book Connection
- Freshmen Specialists
- Learning Communities
- University 101: Orientation to College & Beyond

**Health, Counseling and Student Wellness**
University Center 440
859-572-5650
Health, Counseling and Student Wellness is dedicated to helping students achieve and maintain optimal levels of physical, mental and emotional functioning. Services are administered by highly trained and qualified professionals, including a registered nurse who is available free of charge and on a walk-in basis. NKU’s professional counselors provide confidential services in crisis intervention and individual and group counseling. Health, Counseling and Student Wellness also educates students on substance use and provides women’s health services.

**International Education Center**
University Center 340
859-572-7976
The international education center is composed of the Office of Education Abroad, the Office of International Students and Scholars, and the Office of American English Language Programs. Our mission is to develop and promote global perspectives through engagement in the international arena and to become a regional resource for global initiatives. NKU achieves its international mission through high-quality study abroad experiences; international student recruitment, retention and involvement; an international curriculum; international scholar exchanges; and diverse international opportunities for faculty and staff in teaching, research and outreach.

**Learning Assistance Programs**
University Center 170
859-572-5475
Learning Assistance Programs offers five, free tutoring services: academic tutoring for help learning the content and materials of specific courses, a mathematics center, a writing center, success skills tutoring, and a supplemental instruction program that offers group tutoring/review sessions in selected, historically difficult courses. Learning Assistance Programs also offers developmental courses in mathematics, reading, and writing.

**Norse Advising**
University Center 210
859-572-6900
The mission of Norse Advising is to advise and teach students skills that facilitate growth through exploration as they embark upon their educational careers at NKU. We help students navigate the university and make informed decisions while transitioning into majors and professional careers. Norse Advising serves as the primary advising center for undeclared students in University Studies and offers walk-in advising assistance to all NKU students. We also manage the Compass desk, where peer coaches provide quick answers to student questions.

**Norse Tech Bar**
University Center 252
The Norse Tech Bar is the student destination for technology. Go there for answers to all your technology questions as well as software and hardware troubleshooting. We also offer lab computers with printers, large-format printers, computer/tablet/camera checkout, and LED screens for group work. Visit the website (http://techbar.nku.edu) for more information and hours, and follow us on Twitter for the latest news @nkutechbar.

**Testing Services**
University Center 101
859-572-6373
Testing Services at NKU offers testing services for placement, undergraduate admissions, credit by examination, accommodated classroom examinations, distance learning proctoring, and certification/licensure. Testing services provides standardized and proctored exams in a convenient and secure testing environment for the NKU community and region. Testing services adheres to the National College Testing Association Professional Standards and Guidelines.

**TRiO-Student Support Services**
University Center 120
859-572-5138
TRiO-SSS…the spark that ignites your future. Student Support Services is the home on campus for first generation college students. You will find friendly students and staff who understand what it means to be the first in your family to attend and finish college. You will benefit from mentoring, advising, coaching, and other resources and opportunities designed to support your personal, academic, and career goals. SSS is funded through a federal TRiO grant from the U. S. Department of Education. You must meet financial and parental education guidelines to be eligible. Apply online to be an SSS Scholar (http://saps.nku.edu/sss.html).

**Learning Experience and Parenting (LEAP)**
If you are a student parent from Kentucky trying to juggle school, work, and parenting, then LEAP might be for you. Through LEAP, student parents have access to campus and community resources, assistance with student employment, and an ally in navigating complex state benefits systems. LEAP students participate in personal support sessions, professional development workshops, leadership opportunities, and Holiday Help. Funded through a grant from the
University Connect andPersist
University Center 120
859-572-6497
University Connect and Persist empowers students to create action plans, establish success networks, identify resources and utilize techniques that promote success and persistence to graduation. UCAP administers the student success platform, Mapworks, offers a Lending Library, Financial Fitness programming and consultation, and a last dollar SGA retention award. Any student with questions or concerns related to their NKU experience is welcome to stop in or make an appointment with a member of our team. UCAP likewise supports faculty and staff in their work with students through timely outreach once a student is referred to our office.

TRiO-Student Support Services
Location: University Center 120
Telephone: 859-572-5138
Fax: 859-572-5336
Email Address: sss@nku.edu
Web Addresses: http://sss.nku.edu
Director: Susan Mospens
Other Key Personnel:
- Associate Director: Joyce Couch
- LEAP Coordinator: Gail Messmer

TRiO-SSS… the spark that ignites your future. Student Support Services is the home on campus for first-generation college students. You will find friendly students and staff who understand what it means to be the first in your family to attend and finish college. You will benefit from mentoring, advising, coaching, and other resources and opportunities designed to support your personal, academic, and career goals. SSS is funded through a federal TRiO grant from the U.S. Department of Education. You must meet financial and parental education guidelines to be eligible. Apply online to be an SSS Scholar (http://saps.nku.edu/sss.html).

Learning Experience and Parenting (LEAP)
If you are a student parent from Kentucky trying to juggle school, work, and parenting, then LEAP might be for you. Through LEAP, student parents have access to campus and community resources, assistance with student employment, and an ally in navigating complex state benefits systems. LEAP students participate in personal support sessions, professional development workshops, leadership opportunities, and Holiday Help. Funded through a grant from the Kentucky Cabinet for Health and Family Services, LEAP students must be Kentucky residents receiving public assistance. For more information, visit University Center 120 or email leap@nku.edu.

University Connect and Persist
Location: University Center 120
Telephone: 859-572-6497
Email Address: ucap@nku.edu
Web Address: http://ucap.nku.edu
Director: Peg Adams

University Connect and Persist develops and implements proactive strategies that empower students to create action plans, establish success networks, identify resources and utilize techniques that promote success and persistence to graduation. Any student with questions or concerns related to their NKU experience is welcome to stop in or make an appointment with a coordinator. UCAP likewise supports faculty and staff in their work with students through timely outreach once a student at risk is referred to our office.

How do students connect with us?
- Early Referral: Faculty may refer any student who appears to need assistance with issues that could hinder academic progress.
- Walk-In/Self-Referral: Any student with questions or concerns related to their NKU experience is welcome to stop in or make an appointment with UCAP staff.
- Proactive Outreach: Students who would benefit from early intervention are contacted by UCAP staff.

Our Programs and Services
- Mapworks is NKU’s early referral system and connects faculty, staff and student networks. It is the university’s success tool that helps faculty and staff understand students’ NKU experience. A student survey provides key information that triggers proactive outreach, especially for students at risk early in the semester. A customized student report is also available for review upon completion of the survey.
- Financial Fitness helps students develop important life skills related to money management. Students work one-on-one with our Financial Fitness Coordinator to set up a budget, make sense of college costs, or save for an upcoming purchase. Online tools and resources are available to sharpen financial fitness. We are also available for presentations. Visit the website (financialfitness.nku.edu) or follow us on Twitter @NKUFitness.
- The Lending Library allows students to borrow one textbook per semester. Students who borrow books meet with a UCAP staff for a financial and academic wellness check.
- SGA Retention Award is a one-time-only tuition assistance award that helps students who are struggling financially. Students schedule an appointment with a UCAP coordinator to discuss eligibility criteria and the application process.
- Networking is a life skill beneficial in college and beyond. Students learn how to build, expand and activate their success network at NKU.

Veterans Resource Station
Location: University Center 131
Telephone: 859-572-7867
Email Address: veteransresource@nku.edu
Web Address: http://veterans.nku.edu
Director: Dave Merriss

This outreach service for veterans and their families helps to create a community of university personnel, students and community agencies that increase the likelihood of veterans, student service members and their family members completing their educational goals. The Veterans Resource Station offers individual computer and Internet access that includes a welcoming, open space to study, socialize, borrow books, and connect with other veterans. VRS student peer mentors are veterans or family members of veterans who provide information, referrals, and support to enable students to successfully navigate and connect with the right resources. NKU’s student organization for veterans, Norse VETS (https://www.facebook.com/nkuvets), provides a social group and support structure to help veterans adjust to and become successful in civilian life. The Veterans Resource Station acts as a resource library for a broad range of services and benefits provided by the Kentucky and U.S. Department of Veterans Affairs and other community activities. The Veterans Resource Station processes and certifies Department of Veterans Affairs educational benefits for veterans and family members.
## Benefit Programs Through the GI Bill

<table>
<thead>
<tr>
<th>Chapter 33</th>
<th>Post-9/11 GI Bill</th>
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</thead>
<tbody>
<tr>
<td><strong>Post-9/11 GI Bill</strong></td>
<td>The Post-9/11 GI Bill provides financial support for education and housing to individuals with at least 90 days of aggregate service on or after September 11, 2001, or individuals discharged with a service-connected disability after 30 days. You must have received an honorable discharge to be eligible for the Post-9/11 GI Bill. For the first time in history, service members enrolled in the Post-9/11 GI Bill program will be able to transfer their unused educational benefits to their spouses or children. The Post-9/11 VA benefit provides up to 36 months of education benefits. Generally benefits are payable for 15 years following release from active duty.</td>
</tr>
<tr>
<td><strong>To apply:</strong></td>
<td></td>
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<tr>
<td>• If you are the veteran, complete VA Form 22-1990 Application for VA Education Benefits and submit with DD-214, Copy 4.</td>
<td></td>
</tr>
<tr>
<td>• If you are the spouse/dependent of a veteran, the veteran needs to complete the transfer of entitlement form with DoD. Once the veteran is eligible to transfer his/her GI Bill, VA form 22-1990e needs to be completed by the spouse/dependent. More information is available online (<a href="http://www.gibill.va.gov/benefits/post_911_gi_bill/transfer_of_benefits.html">http://www.gibill.va.gov/benefits/post_911_gi_bill/transfer_of_benefits.html</a>).</td>
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<thead>
<tr>
<th>Chapter 30</th>
<th>Montgomery GI Bill - Active Duty</th>
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<tbody>
<tr>
<td><strong>Montgomery GI Bill - Active Duty</strong></td>
<td>To be eligible for the GI Bill, you must have served as a member of the armed forces on active duty on or after July 1, 1985. You must have a high school diploma or a GED and have participated in the program, having had $100 withheld each month for 12 months.</td>
</tr>
<tr>
<td><strong>To apply:</strong></td>
<td>Complete VA Form 22-1990 Application for VA Education Benefits and submit with DD-214, Copy 4.</td>
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<thead>
<tr>
<th>Chapter 31</th>
<th>Vocational Rehabilitation - Disabled Veterans</th>
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<tbody>
<tr>
<td><strong>Vocational Rehabilitation - Disabled Veterans</strong></td>
<td>A disabled veteran who has a service-connected disability of 20 percent or more may qualify. If eligible, veterans receive full tuition, fees and book coverage. Disabled veterans must complete the appropriate paperwork and receive counseling through the Veterans Administration. <strong>To apply:</strong> Complete VA Form 28-1900 Disabled Veterans Application for Vocational Rehabilitation and submit with DD-214, Copy 4, copy of original marriage license, and copies of original birth certificates for all dependent children.</td>
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<tr>
<th>Chapter 35</th>
<th>Survivors' and Dependents' Educational Assistance Program</th>
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<tbody>
<tr>
<td><strong>Survivors' and Dependents' Educational Assistance Program</strong></td>
<td>This covers a son, daughter or spouse of a veteran who has a 100 percent permanent and total service-connected disability or the son/daughter or spouse of a veteran whose death was service-connected. <strong>To apply:</strong> Complete VA Form 22-5490 Application for Survivors’ and Dependents’ Educational Assistance.</td>
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<thead>
<tr>
<th>Chapter 1606</th>
<th>Montgomery GI Bill - Selected Reserve</th>
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<tbody>
<tr>
<td><strong>Montgomery GI Bill - Selected Reserve</strong></td>
<td>Reservists who enlist or reenlist for a period of six years after June 30, 1985 and who have a high school diploma or GED are eligible upon completion of 180 days of Reserve service. <strong>To apply:</strong> Complete VA Form 22-1990 Application for Education Benefits and submit DD-2384 Notice of Basic Eligibility. This form is available upon request at the Reserve Center where the reservist is attached.</td>
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<tr>
<th>Chapter 1607</th>
<th>Reserve Education Assistance Program (REAP)</th>
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<tr>
<td><strong>Reserve Education Assistance Program (REAP)</strong></td>
<td>Reservists who have been activated for 90 consecutive days or more since September 11, 2001. Must remain in the Reserves to maintain eligibility. <strong>To apply:</strong> Complete VA Form 22-1990 Application for Education Benefits. Submit copies of all DD 214s and all orders for the period(s) you are using to claim eligibility.</td>
</tr>
</tbody>
</table>
All Card (ID card)

Location: Votruba Student Union 120
Telephone: 859-572-6016
Web Address: http://allcard.nku.edu

Contact: Jana Vaughan

The NKU Alumni Association provides unmatched networking opportunities for alumni with each other and with NKU. All alumni are encouraged to join the alumni online community and keep the alumni around campus. All Cards are automatically activated each semester for the duration of a student’s attendance. New students should visit the All Card office after classes begin to receive an ID card. Lost or stolen All Cards should immediately be reported to the All Card office.

Students can add money to their All Card and enjoy convenience and savings at drink vending machines (10 percent discount), campus dining locations (six percent discount), and copiers (50 percent discount). Students can also use this account to make purchases at the NKU bookstore, snack vending machines, The Bank of Kentucky Center concessions, and the Votruba Student Union game room. The All Card can also be used to pay for computer lab printing, NKU parking permits and fines, Health, Counseling and Student Wellness, Norse Tech Bar in University Center, and Steely Library fines. More information is available online (http://allcard.nku.edu).

Alumni Programs

Location: Lucas Administrative Center 221
Telephone: 859-572-5486
Email Address: alumni@nku.edu
Web Address: http://alumniconnect.nku.edu

The NKU Alumni Association provides a wide range of opportunities for alumni to stay connected after graduation. All graduates of NKU are members of the NKU Alumni Association.

The Alumni Association has a 24-member alumni volunteer board called the Alumni Council, which, in conjunction with the alumni programs office, assists in planning events both locally and throughout the country to engage alumni with each other and with NKU.

All alumni are encouraged to join the alumni online community and keep the university updated about their accomplishments, address changes, email, etc. The NKU Alumni Association provides unmatched networking opportunities and a chance to celebrate and participate in the greater NKU community. The benefits of being an NKU alumnus begin right after graduation:

- Free subscription to Northern Magazine, our award-winning alumni magazine published quarterly and distributed to more than 50,000 alumni around the globe.
- Invitations to alumni events including the Alumni Awards Celebration, Alumni Weekend, and other special events.
- Opportunity to take advantage of services provided by Career Services on page 61.
- 10 percent discount on many items in the NKU Bookstore, excluding textbooks and computers.
- 15 percent discount on courses offered through NKU Community Connections.
- Use of the NKU library including borrowing privileges.
- Access to Ref Works at Steely Library.
- Gift mailed to baby Norse upon receipt of a birth announcement.
- Campus Recreation Center membership with annual $50 donation to NKU Foundation.
- NKU Visa card through U.S. Bank.
- Discounted insurance through Liberty Mutual Insurance.
- Affordable short-term health insurance while job-hunting or waiting for new employee benefits to begin through GradMed.
- International travel program through Alumni Holidays and GO NEXT.
- Childcare discounts at the NKU Early Childhood Center.
- Opportunity to join the Delta Community Credit Union.
- Opportunity to join Norse Athletics Kids Club.
- Discount membership with AAA.

Arts and Culture

The university offers a variety of arts and cultural opportunities throughout the year. Many are open to nonstudents as well as to students. Some activities are sponsored by the Activities Programming Board, which is described in the Student Union and Programming section. Other activities are sponsored by various departments across campus.

Art Galleries

NKU’s two art galleries exhibit art by regional, national, and international artists, as well as work created by visual arts faculty and students. The galleries, located in the Fine Arts Center, engage in outreach programs and experimental projects and provide a forum for traditionally underrepresented individuals to display their work for the community. There is no fee to visit the galleries. For more information about the galleries and for an exhibition schedule, visit the web (http://art.nku.edu/galleries).

The Bank of Kentucky Center

The Bank of Kentucky Center is northern Kentucky’s premier special-events facility. It is home to NKU’s men’s and women’s basketball teams and features first-class concerts, family shows, and a wide variety of sporting events. For information on the events’ schedule and tickets, visit the web (http://www.bankofkentuckycenter.com).

Digitorium

The College of Informatics’ George and Ellen Rieveschl Digitorium, located in Griffin Hall, is an exciting place for classes, live performances, and events, all enhanced by advanced digital technology. With retractable and flexible floor seating facing a floor-to-ceiling digital media wall, and a second level ringed with multipurpose “opera boxes,” the digitorium has the capacity to transport audiences to new experiences, even new worlds. It is a unique place where innovative performances and multiple emerging digital technologies are integrated in novel ways to produce stunning results. As the synthesis of a digital opera house, global command center, trading floor, theatre, and auditorium, it can host any type of public event, from individual speaking to collaborative group activities; from digitally-mediated human performances to complex, real-time simulations. Pictures of the digitorium are available on the web (http://informatics.nku.edu/griffin-hall/photo-gallery/digitorium.html). Information about reserving the digitorium can be found on the web (http://informatics.nku.edu/griffin-hall/reserve-the-facility.html).

English Literary Readings

The Department of English, often in conjunction with other campus organizations, sponsors literary events featuring readings from outstanding writers in the fields of fiction, creative nonfiction, and poetry. The literary events celebrate diverse voices from contemporary writers. Events are open to the public and the student body. For more information, contact P. Andrew
Friends of Steely Library
The Friends of Steely Library maintains a regular schedule of author appearances. These include poetry and book readings by prominent authors and poets as well as other literary and art-themed events. More information is available online (http://friendsofsteely.nku.edu).

Haile Digital Planetarium
The planetarium, located in the Herrmann Science Center 409 has free showings every Monday during the spring and fall semesters at noon, and on special Friday evenings and Saturdays that offer a chance to learn about topics on and off the earth. Visitors travel through time and space to look at the formation of the moon, a future solar eclipse in the area, ancient monuments around the world, or a cave in Kentucky. The website (http://planetarium.nku.edu) provides program information and a calendar of events.

Museum of Anthropology
Located in Landrum Academic Center 200, the museum’s collections focus on (1) contemporary arts of Native Americans, (2) contemporary ethnographic and folk arts of world cultures, especially those of Latin America, Africa, Southeast Asia, and New Guinea, and (3) the archaeology of Northern Kentucky and the middle Ohio Valley. The museum provides outreach through displays, exhibitions, public lectures and occasional film series, tours including K-12 outreach, and other specifically designed educational programs for groups of all ages. More information is available online (http://anthropologymuseum.nku.edu).

Music Performances
NKU offers a variety of exciting and creative musical performances from NKU students, area musicians, and professional musicians. Details about scheduled performances can be found online (http://music.nku.edu/concerts).

Reading Room Gallery
The Eva G. Farris Reading Room gallery in the W. Frank Steely Library presents an ongoing series of art displays representing the work of faculty, students, and local artists from the northern Kentucky region. Information on the exhibits can be found on the library’s website (http://library.nku.edu).

Sehnert Lecture Series
The Sehnert Lecture Series is an annual event held each fall. The NKU Department of Mathematics and Statistics invites a nationally known mathematician or statistician to give a general audience lecture on a mathematical science theme. For more information call 859-572-5377 or visit the web (http://artsscience.nku.edu/departments/math/lecture-series.html).

Theatrical Performances
During the fall and spring semesters, the NKU Department of Theatre and Dance presents six to eight productions in the NKU Corbett Theatre and the Robert and Rosemary Stauss Theatre. Shows presented range from classics of dramatic literature to contemporary comedy, drama, and musicals. The Department of Theatre and Dance also offers dance performances during the year. Information about performances is available online (http://artsscience.nku.edu/departments/theatre/boxoffice.html).

Athletics
Location: The Bank of Kentucky Center 133
Telephone: 859-572-5193
Fax: 859-572-6089

Email Address: athletics@nku.edu
Web Address: http://www.nkunurse.com
Director: Ken Bothof
Other Key Personnel:
Senior Associate Athletic Director for Business and Finance: Dan McIver
Senior Associate Athletic Director for External Operations: Kurt Moeller
Associate Athletic Director for Compliance/Senior Woman Administrator: Leslie Fields
Associate Athletic Director for Operations and Event Management: Chris Kruse
Associate Athletic Director for Sports Medicine and Risk Management: Molly Hutson
Sports Information / Media Relations Director: Bryan McLeod
Head Men’s Baseball Coach: Todd Asalon
Head Men’s Basketball Coach: John Brannen
Head Women’s Basketball Coach: Dawn Pitzoneit
Head Men’s & Women’s Cross Country and Track and Field Coach: Steve Miller
Head Men’s & Women’s Golf Coach: Daryl Landrum
Head Men’s Soccer Coach: John Basalyga
Head Women’s Soccer Coach: Bob Sheehan
Head Women’s Softball Coach: Kathy Stewart
Head Men’s & Women’s Tennis Coach: Brian Nester
Head Women’s Volleyball Coach: Liz Hart

The intercollegiate athletics program provides a natural extension of secondary school programs, offering skilled student-athletes the opportunity to continue their educational and athletics experiences beyond high school. Membership in the National Collegiate Athletic Association Division I and the Atlantic Sun Conference and adherence to the governing philosophies and regulations of these bodies provide a framework for implementing the mission of the department. The strategic initiative is to position intercollegiate athletics to compete at the highest level of NCAA Division I and in the Atlantic Sun Conference and to successfully complete the four-year reclassification period.

NKU sponsors intercollegiate competition in 17 varsity sports, eight for men (baseball, basketball, cross country, golf, indoor and outdoor track & field, soccer, and tennis) and nine for women (basketball, cross country, golf, indoor and outdoor track and field, soccer, softball, tennis, and volleyball). In addition, the department has a student-athletic training program, co-ed cheerleading team, dance team and a pep band. It also offers numerous student employment opportunities.

Athletics facilities include the NKU Soccer Complex, the Bill Aker Baseball Complex at Friendship Field, the Joyce E. Yeager Tennis Complex, the Frank Ignatius Grein Softball Field, Regents Hall, and The Bank of Kentucky Center. The Bank of Kentucky Center includes a 9,400-seat arena, the Thomas J. Kearns Student-Athlete Academic Center, film viewing/study rooms, and a strength and conditioning area for NKU’s 300 student-athletes.

Bus Services
NKU and Transit Authority of Northern Kentucky, the northern Kentucky bus service, have partnered to establish the U-Pass program, which provides NKU students, faculty, and staff with free transportation on all TANK routes. The U-Pass program includes all TANK buses — including the Southbank Shuttle — and riding is unlimited. There are no forms to fill out and no paperwork to sign. NKU users just swipe their valid NKU All Card upon boarding and ride any route in the TANK system for free. The bus can be used to ride to class, go shopping, visit friends, or for any other purpose where the NKU rider needs transportation. The U-Pass program applies only to Kentucky and does not affect rates on the Ohio side of the river. Students can obtain additional information by calling 859-331-TANK (8265) or visiting the web (http://www.tankbus.org/programs/college-u-pass-program.aspx).
Campus Recreation

Location: Albright Health Center 104
Telephone: 859-572-1964
Fax: 859-572-6090
Email Address: crc@nku.edu
Web Address: http://campusrec.nku.edu
Director: Matthew W. Hackett
Other Key Personnel:
- Assistant Director for Programs: Jill Wood
- Assistant Director for Intramural Sports: Jeremy Chipman
- Coordinator for Aquatics: Hayley North
- Coordinator for Fitness: Angela Aber
- Coordinator for Business Services: Justin Jett
Membership & Business Services: Emily Tucker

Our mission is to enhance student and university community success by advocating and providing inclusive, developmental opportunities that promote student engagement, lifelong learning and healthy behaviors. Recreation facilities and programs add greatly to the NKU experience. A valid NKU All Card is all that is needed to get started. All registered NKU students are automatically members of the campus recreation center and may also purchase supplemental or family recreation center memberships.

The campus recreation center, intramural field complex, and sand volleyball courts are the places to be for fitness, sports, and socializing day or night. Whether it’s playing basketball, running on a treadmill, kicking a soccer ball or taking laps in the pool, there is something for everyone. The campus recreation center is open seven days a week so students can work out before or after class, as well as on the weekends. Students can play on intramural sports teams; relieve stress with a yoga class in the Norse fitness program; join sports club teams as they compete and travel to other schools; and achieve fitness goals by working with a personal trainer through the Norse Strong personal training program.

Please refer to the website for more information (http://campusrec.nku.edu).

Employment

Students can learn valuable career skills such as customer service, leadership, and time management, and earn extra money, by working for Campus Recreation. Please refer to the website for more information (http://campusrec.nku.edu).

Facilities

Campus Recreation Center
- New natatorium with 8-lane competition pool, dive well, active shallow water area.
- 6 basketball courts.
- 17,000 square feet of weight/fitness space.
- 3 multipurpose rooms.
- 2 racquetball courts.
- MAC gym for indoor soccer and floor hockey.
- Bouldering wall.
- New locker rooms and sauna.
- Lounge and study areas.
- Outdoor courtyard.

Outdoor Facilities
- Sand volleyball courts – Two sand volleyball courts with lights are located in the residential village so you can play all night long!
- Pavilion – Need a place to reserve for a lunch or party? Sheltered pavilion with picnic tables and restrooms. For reservations please call (859) 572-6570.
- Outdoor basketball courts – Two outdoor basketball courts located in the residential village.

- Intramural field complex – Two turf sport fields with lights and a pavilion. This field can accommodate sports such as football, soccer, softball, ultimate frisbee, and more.

Programs

Intramural Sports – Have fun and make friends while playing intramural sports! With over 25 tournaments and leagues each year, there is something for everyone: flag football, basketball, softball, soccer, volleyball (sand & indoor), dodge ball, corn hole, Texas hold ‘em, college pick ‘em, racquetball, bench-press, ultimate frisbee, home run derby, tennis and more!

Norse Fitness – Get fit and have a blast! From Zumba to yoga, the Norse fitness program offers something for everyone. Group fitness classes are a great way to change up your workout and meet new people. Classes range from 30 to 50 minutes: cycling, kickboxing, pilates, yoga, boot camp, zumba, body sculpt, butts & guts, abs Xpress, and more!

Sport Clubs – Get Involved! Want to compete on a higher level? Try out one of the numerous sport clubs: hockey, Taekwondo, ultimate frisbee, baseball, badminton, soccer, basketball, equestrian, volleyball, and bowling. Want something new...start your own club!

Personal Training – Don’t know where to start...we’ll show you the way! The Department of Campus Recreation has personal trainers prepared to help you get more out of your workout time. Learn effective techniques and reach your fitness goals.

Aquatics – The aquatics program offers open lap swim as well as Learn to Swim programs. The Learn to Swim Program has parent-child aquatics with five progressive levels of instruction designed to help swimmers of all ages learn stroke techniques and personal water safety skills. These are offered as group lessons with a maximum 7:1 student/instructor ratio. Private lessons are available upon request for all ages and provide one-on-one instruction that is catered to the participant’s skill level.

Career Services

Location: University Center 225
Telephone: 859-572-5880
Fax: 859-572-6996
Email Address: careerservices@nku.edu
Web Address: http://careerservices.nku.edu
Director: Bill Froude
Other Key Personnel:
- Associate Director for Employer Relations & Recruitment Services: Amanda Meeker
- Career Advisor and Co-op Manager: Amanda Meeker
- Career Advisor: Jennifer Richmond
- Career Advisor: Lisa McElfresh
- Data & Assessment Coordinator: Anna Sharp Elliott
- Administrative Specialist: Lisa Thams

Learn about yourself, explore career options, make career decisions, and put your plans into action. Career Services offers an integrated program of services that emphasize the developmental nature of career decision-making: self-exploration, world-of-work preparation, job-search skill development, and career-transition assistance. These services are available to NKU students and alumni and may include career advising, resume assistance, job-search coaching, and interview preparation. Numerous online resources are provided through the Career Services website, including the Norse Recruiting job database and the FOCUS2 career planning tool. Career Services also offers the CEP 101 career development course for students who are undecided about their major or career choice.

Career Services is the university’s liaison to area corporations and organizations, inviting these employers for on-campus interviews, career fairs, information sessions, and other events. Employers are encouraged to
post co-op, internship, and full-time positions to the Norse Recruiting job database. Career Services also coordinates the Cooperative Education program (CEP 300) on the NKU campus. Co-op integrates classroom learning with paid, real-life work experience in a related field.

Center for Student Inclusiveness

Location: Votruba Student Union 309
Telephone: 859-572-6684
Fax: 859-572-6161
Email address: csi@nku.edu
Web address: http://csi.nku.edu
Assistant Vice President for Student Inclusiveness: Danni Moore

Other key personnel:
- Director of African American Programs and Services: Tracy Stokes
- Director of Latino Programs and Services: Leo Calderon
- Director of LGBTQ Programs and Services: Bonnie Meyer
- Administrative Assistant: Laura Dektas

The Center for Student Inclusiveness places inclusive excellence at the center of student life and provides student centered programming that aligns with NKU’s core value of being a community that embraces inclusiveness, diversity, and global awareness. The goals of CSI are to:

1. Enhance and expand opportunities for co-curricular student engagement.
2. Create, coordinate and sustain retention programs that foster student success for underrepresented student populations.
3. Collaborate with other university associates and offices to create a climate where all students are acknowledged, welcomed and valued; implement best practices in the areas of inclusive excellence and diversity; and help prepare students for an increasingly diverse and global society.

African American Programs and Services

Location: Votruba Student Union 309
Telephone: 859-572-6684
Fax: 859-572-6161
Email address: aaps@nku.edu
Web address: http://aaps.nku.edu
Director: Tracy Stokes

Other Key Personnel:
- Department Coordinator: Yewineshet Geberegeorgis

African American Programs and Services creates a support system which advocates academic excellence and enriching African American cultural experiences at Northern Kentucky University. Through collaborative relationships across campus and throughout the region, we offer educational, professional, and social resources designed to meet the needs of students and members of the greater Cincinnati/northern Kentucky community.

AAPS provides opportunities for students to engage with faculty, staff and alumni, develop leadership skills, and celebrate African American culture. Students are encouraged to join AAPS in celebrating African American Cultural Heritage through events such as a diversity speaker series, Kwanzaa, Dr. Martin Luther King Jr. Commemoration, Black History Month, Soul Food Fest, and African American Student Recognition Ceremony. AAPS also takes pleasure in sponsoring Shererehe, a celebration to honor African American graduates marking the end of a successful college journey and the beginning of a promising career.

To assist first-year students in the transition from high school to college, AAPS invites students to consider NKU R.O.C.K.S. (Responsibility, Opportunity, Community, Knowledge and Success). This program helps students to explore personal and institutional expectations of college and develop effective study habits and skills that will increase their potential for success. R.O.C.K.S. also exposes students to the many valuable resources available on NKU’s campus and provides a comprehensive support system throughout students’ undergraduate experience.

Disability Programs and Services

Location: Votruba Student Union 303
Telephone: 859-572-5401
Fax: 859-572-5874
Email Address: disability@nku.edu
Web Address: http://disability.nku.edu
Assistant Director: Cindy Knox

Disability Programs and Services provides access to academic and co-curricular programs through reasonable accommodations and student-centered assistance. The office operates in compliance with federal regulations to reduce or eliminate physical, academic, and attitudinal barriers for individuals with disabilities. In addition to reasonable accommodations, the office offers various services and support programs including: consultation about disability issues for faculty, staff, and students; individual academic advising; liaison with outside agencies; and assistive technology training. Students must be registered with Disability Programs and Services to receive reasonable academic accommodations. NKU also provides tutorial services, developmental classes, writing center, math center, speech lab, and computer labs for all students.

Latino Programs and Services

Location: Votruba Student Union 313, 315
Telephone: 859-572-6013
Fax: 859-572-1576
Email Address: latino@nku.edu.
Web Address: http://latino.nku.edu
Director: Leo Calderon
Coordinator: Diane Maldonado

The Office of Latino Programs and Services coordinates academic, cultural, and social activities with the World Languages and Literatures Department, African American Programs and Services, Latino Institute for Excellence, and other departments. The office also offers a Latino Mentor Program, Orientation, Latino Mentor Program, Latino Keynote Lecture Speaker Series, National Hispanic Heritage Month Calendar of Events, Latino Student Recognition Dinner, etc. Other services include scholarship and employment opportunities, leadership development, participation in four Latino organizations, and volunteer opportunities. The office has developed strong partnerships with Latino and non-Latino community organizations such as the English Language Learning Foundation, League of United Latin American Citizens, Su Casa, Centro de Amistad, YMCA of Greater Cincinnati, the Behringer-Crawford Museum, Hispanic Chamber of Commerce Cincinnati USA, and many others. Part of these community outreach projects includes a high school Latino and English Language Learning Fun with Science Camp, and bilingual college fairs. The Office of Latino Programs and Services also serves as a consultant to businesses, K-12 educators and public service agencies and is a bilingual resource for NKU.

LGBTQ Programs and Services

Location: Votruba Student Union 311
Telephone: 859-572-5835
Fax: 859-572-6161
Email Address: lgbtq@nku.edu
Web Addresses: lgbtq.nku.edu http://lgbtq.nku.edu
Director: Bonnie Meyer

The Office of LGBTQ Programs and Services promotes education, awareness, and advocacy for the lesbian, gay, bisexual, trans*, questioning, and ally community at NKU. LGBTQ Programs and Services coordinates the campus-wide Allied Zone Training program, Trans* Ally trainings, Speak Out trainings, several different workshops, and classroom presentations. Through collaborative efforts with African American Programs and Services, Latino Programs and Services, and Disability Programs and Services, and with

...
partners across campus, we work to promote an inclusive environment for all members of the NKU community.
LGBTQ Programs and Services provides programming during October’s LGBTQ History Month (including a celebration of National Coming Out Day, Ally Appreciation Day, and Asexual Awareness Week), Transgender Day of Remembrance, World AIDS Day, National Day of Silence, and Norse PRIDE Week. Social mixers and brown bag lunch conversations are coordinated monthly. The office is excited to announce that the Student Ambassador and Mentorship program began in the fall of 2014. Additional information is available on the office’s website (http://lgbtq.nku.edu).
The office has strong partnerships with numerous LGBTQ community and state organizations in Kentucky and Ohio and also serves as a consultant to businesses, K-12 educators, and community organizations.

Dean of Students

**Location:** Votruba Student Union 301  
**Telephone:** 859-572-5147  
**Fax:** 859-572-6173  
**Email Address:** deansstudents@nku.edu  
**Web Address:** http://deanofstudents.nku.edu

**Key Personnel:**
- Associate Dean of Students and Title IX Coordinator: Ann James  
- Associate to the Dean of Students: Stephen A. Meier  
- Administrative Assistant: Julie Bridewell

The dean of students is responsible for the student development unit, which represents the core student service areas that promote learning and personal development of students. These areas provide an array of supporting programs, services, activities, and facilities designed to promote active student involvement in the life of the institution and responsible citizenship on campus and in the surrounding community. The dean of students also serves as the university’s chief conduct officer, and oversees campus crises, students of concern, Title IX compliance, and university ombuds services.

In addition, the dean of students office coordinates the resolution of issues that arise between or among faculty, staff, and students through the administration of the student discipline and student grievance processes. This office is also the home of the ombuds officer: the contact point for students who have problems, issues, or concerns that have not been addressed through other avenues. The Code of Student Rights and Responsibilities is available on the web (http://deanofstudents.nku.edu/policies/student-rights.html). For information concerning the application of the code, please visit the website or contact the dean of students office. The dean of students also oversees several university policies and procedures including but not limited to: Title IX compliance, sexual misconduct, classroom disruption, missing student, communicable disease, and tailgating. For a complete list of policies and procedures maintained by the dean of students office, please visit the website (http://deanofstudents.nku.edu/policies.html).

- Alcohol and Drug Abuse Policies and Educational Programs  
- Classroom Disruption Guidelines  
- Educational Environment Disruption Policy  
- Free Expression Policy  
- Late Night Event Policy  
- Missing Student Notification Policy  
- NKU Acceptable Use Policy for Technology Resources  
- NKU Communicable Disease Protocol  
- Sexual Misconduct  
- Speakers from Off Campus  
- Student Organization Policies  
- Tailgating Policy  
- Tobacco Free Policy  
- University Chalking Policy

University Housing Policy  
University Posting Policy

If you are a student who believes you have been subjected to (1) sexual harassment by university faculty or staff; or (2) any other form of gender discrimination under Title IX, you may report such misconduct or file a formal complaint with the Title IX Coordinator in the Office of the Dean of Students. Complaints must be submitted in writing.

If you are a student who believes you have been or are the victim of sexual harassment, including sexual assault, sexual violence or other sexual misconduct, by another university student, you may report such conduct or file a complaint under Title IX with the Title IX Coordinator. Complaints of student sexual misconduct are addressed by the Code of Student Rights and Responsibilities.

Violence Against Women
The Norse Violence Prevention Center provides support and advocacy for students who have experienced sexual and other types of violence. The center is located on the third floor of the Votruba Student Union and may be reached by phone at 859-572-5685.

Federal and state laws prohibit the taking of retaliatory measures against any individual who files a complaint in good faith.

The Title IX Coordinator is Ann James and she can be reached via email (jamesa3@nku.edu) or phone at 859-572-5147.

Dining Services

**Location:** Votruba Student Union 116  
**Telephone:** 859-572-5212  
**Fax:** 859-572-6478  
**Web Address:** http://www.dineoncampus.com  
**Resident District Manager:** Melissa Pompa

**Other Key Personnel:**
- Director of Operations: Jorge Elizagaray  
- Retail Director/Executive Chef: Eric Nousiainen  
- Residential Director: Thomas Mcgugh  
- Northern Class Catering Director: Alayne Strong

NKU dining services provides a variety of exciting dining experiences that are value-oriented for college students. The Votruba Student Union includes the Northern Fare Food Court as well as a full-service Starbucks. The food court includes seven stations serving a variety of food including Mexican options, sub sandwiches, burgers, pizza, soups, made-to-order salads, and Asian food. Coffee, sandwiches, and snack food are also available in a variety of locations on campus including Steely Library, Landrum Academic Center, and the Herrmann Science Center.

Early Childhood Center

**Location:** Mathematics Education Psychology Center 147  
**Telephone:** 859-572-6338  
**Fax:** 859-572-1941  
**Email Address:** ece@nku.edu  
**Web Address:** http://earlychildhoodcenter.nku.edu  
**Director:** Melanie Caldwell

Throughout the calendar year, the Early Childhood Center provides childcare for children ages two through five. The services are available for children of NKU students, staff, and faculty. During June and July, the center also offers a summer enrichment program for children ages six through 14. The ECC is licensed through the state of Kentucky and STAR rated.

Fraternity and Sorority Life

**Location:** Votruba Student Union 325  
**Telephone:** 859-572-5146
**Health, Counseling, and Student Wellness**

**Location:** University Center 440  
**Telephone:** 859-572-5650  
**Fax:** 859-572-5615  
**Email Address:** hcswnku.edu  
**Web Address:** http://hcswnku.edu  
**Director:** Ben Anderson

Health, Counseling, and Student Wellness provides a variety of preventive and acute-care services to promote the physical and mental health of students. Registered nurses and nurse practitioners provide treatment for acute illnesses or injuries. Mental health professionals provide assessment, diagnosis, and treatment for a variety of crisis, adjustment, relationship, and general mental health issues. Individual, couples, and group treatment options are available. Health, Counseling, and Student Wellness staff members are also available for educational programming addressing the mental and physical health needs of students. Faculty and staff are encouraged to consult with the staff regarding specific student needs.

**National Panhellenic Conference Greek Letter Organizations**
- Alpha Phi Alpha Fraternity, Inc.
- Alpha Kappa Alpha Sorority, Inc.
- Delta Gamma
- Delta Zeta
- Delta Sigma Theta
- Eta Sigma Gamma
- Iota Sigma Sigma
- Kappa Delta Rho
- Lambda Chi Alpha
- Lambda Sigma Chi
- Lambda Chi Phi
- Mu Sigma Rho
- Nu Sigma Phi
- Omega Psi Phi
- Phi Delta Chi
- Phi Kappa Alpha
- Phi Lambda Upsilon
- Phi Sigma Sigma
- Sigma Alpha Mu
- Sigma Xi
- Sigma Nu
- Sigma Phi Epsilon
- Tau Kappa Epsilon
- Tau Delta Phi
- Zeta Phi Beta

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- Nu Sigma Phi
- Omega Psi Phi
- Phi Delta Chi
- Phi Kappa Alpha
- Phi Lambda Upsilon
- Phi Sigma Sigma
- Sigma Alpha Mu
- Sigma Xi
- Sigma Nu
- Sigma Phi Epsilon
- Tau Kappa Epsilon
- Tau Delta Phi
- Zeta Phi Beta

**National Association of Latino Fraternal Organizations**
- Alpha Psi Lambda Fraternity

**Fraternities and sororities are the largest, most visible, and most active groups on campus.** Fraternity and sorority recruitment is held at the beginning of the fall semester. Black Greek-letter organizations and the Latino/Latino organization hold membership intake at times scheduled by the individual organizations. More information is available in the Office of Fraternity and Sorority Life. The Greek organizations currently on campus are:

**Panhellenic Council Sororities**
- Alpha Omicron Pi
- Delta Gamma
- Delta Zeta
- Kappa Delta
- Phi Sigma Sigma
- Theta Phi Alpha

**Interfraternity Council Fraternities**
- Alpha Sigma Phi
- Alpha Tau Omega
- Pi Kappa Alpha
- Sigma Phi Epsilon
- Tau Kappa Epsilon
- Theta Chi

**Lost and Found**

**Location:** Information desk on the second floor of the Votruba Student Union.  
**Telephone:** 859-572-6588

The official Lost and Found is located at the information desk on the second floor of the Votruba Student Union. Items turned in at this location are retained until the end of each semester.

**New Student Orientation and Parent Programs**

**Location:** Votruba Student Union 316  
**Telephone:** 859-572-1967  
**Fax:** 859-572-9609  
**Email Address:** orientation@nku.edu  
**Web Address:** http://orientation.nku.edu  
**Director:** Jennie LaMothe  
**Other Key Personnel:**
- Associate Director: Britta Gibson
- Coordinator: Jeff Iker
- Specialist: Becky Sherman

As students begin to prepare for the transition to college, NKU has developed a comprehensive orientation program to assist all incoming students in cultivating their own individual support network at the university. **Northern Exposure: Registration and Orientation** is designed to foster an enduring connection between the students, their families and the NKU community. Through interactive experiences, students will become informed and skilled consumers of the academic programs, comprehensive services and engagement opportunities offered at NKU. While **Northern Exposure** is mandatory for all incoming students, we do have separate orientations for new first-time freshman, post-traditional students, veterans and transfers.
Parent Association

Location: Votruba Student Union 316
Telephone: 859-572-1967
Fax: 859-572-1960
Email Address: orientation@nku.edu
Web Addresses: http://orientation.nku.edu
Director: Jennie LaMothe

Other Key Personnel:
  - Associate Director: Britta Gibson
  - Coordinator: Jeff Iker
  - Specialist: Becky Sherman

The NKU Parents Association was founded in November 2008. There is no cost to join, and all parents/guardians and family members are eligible to join. Parents Association members receive the following:

- Monthly e-newsletters with important dates and deadlines, tips, relevant articles, and information regarding NKU events.
- Invitations to parent and family events including Family Weekend.
- Opportunities to meet and network with other NKU parents.
- Volunteer opportunities at NKU.

Join NKU’s Parents Association today for free, and begin receiving the monthly e-newsletter. If you would like to join, visit the website (http://orientation.nku.edu/parents.html).

Norse A!ert

The university has partnered with Rave to create Norse A!ert, which will contact members of the campus community through voice and text messages in the event of an emergency situation or campus closing. Students, faculty, and staff are encouraged to sign up for Norse A!ert. More information is available online (http://norsealert.nku.edu).

Ombuds Services

Location: Votruba Student Union 301
Telephone: 859-572-5147
Fax: 859-572-6173
Email Address: deanstudents@nku.edu
Web Address: http://deanofstudents.nku.edu
Director: Stephen A. Meier

The services of the ombuds officer help guide students through the university’s policies and procedures for resolving problems. The campus ombuds officer meets with students, hears their concerns, and counsels them on how they should proceed. Student comments and suggestions regarding all facets of the university are welcomed.

Parking

Location: Welcome Center
Telephone: 859-572-5505
Fax: 859-572-6902
Email Address: parkingservices@nku.edu
Web Address: http://parking.nku.edu
Director: Curtis Keller (interim)

All students who operate and park a motor vehicle on the Highland Heights campus must properly display a current parking permit on their vehicle and must park their cars in appropriate parking areas. During the online registration period, a parking permit may be ordered via the parking services’ website (http://parking.nku.edu). Three weeks prior to the start of classes, the permit will be mailed to the address indicated on the online registration form. After the online registration period ends, permits must be purchased at the parking services office located at the welcome center.

All parking citations must be paid before a permit can be purchased for the next academic year. Lost or stolen parking permits should be reported immediately to parking services. Lost or stolen permits may be replaced for a fee of $25.

Police Department

Office: University Police
Location: 419 Johns Hill Road
Telephone: 859-572-5500
Fax: 859-572-6991
Email Address: police@nku.edu
Web Address: http://police.nku.edu
Police Chief: Jason G. Willis

Other Key Personnel:
  - Captain: Gerald Pizzano
  - Lieutenant: John Gaffin
  - Sergeant: Matthew Bunning
  - Sergeant: Ray Haley
  - Sergeant: Anthony Williams
  - Sergeant: Rob Yelton
  - Records Manager: Kristy Webb

The NKU University Police department is a service- and safety-oriented department with broad enforcement powers, dedicated to providing an atmosphere in which the mission of the university can be accomplished. Providing a safe and secure environment for NKU students, faculty, and staff is a top priority at NKU.

The department operates 365 days a year, 24/7, and provides a full range of law enforcement services, including criminal investigations, accident investigations, and emergency services. Representatives of the department are actively involved in instructional and educational outreach. University police have jurisdiction over all university properties. Jurisdiction is extended to off-campus locations when requested by other law enforcement agencies. Pursuant to KRS 164.955 and 527.020 (3), police officers of NKU are authorized to carry firearms at all times within the commonwealth of Kentucky.

Call boxes are strategically located throughout campus for students, faculty, and staff to summon assistance from the university police department. In addition, during an emergency, the university police can be reached by dialing 911 on a university phone. All 911 calls made on a cell phone will go to police agencies closest to the cell tower used by the caller’s phone. Callers should let the 911 operator know the emergency is located on NKU’s campus.

Violations of university regulations are reported to the university’s chief judicial officer for further action. Individuals arrested for violations of law are transported to the Campbell County Detention Center for booking.

University Police reports statistical information monthly to the U.S. Department of Justice and the Kentucky State Police. Each report includes the number and types of crimes committed. A report from the previous academic year is available online (http://police.nku.edu).

Registrar

Location: Lucas Administrative Center 301
Telephone: 859-572-5556
Fax: 859-572-6094
Email Address: registrar@nku.edu
Web Address: http://registrar.nku.edu
University Registrar: Marla Herron

Other Key Personnel:
  - Director of Registrar Services: Angela Calhoun
  - Director of Transfer Services: Ava Nienaber
The registrar’s office is responsible for official student and curricular records. Staff members handle course and room scheduling, degree audit, and produce the registration guide, the academic calendar, and the schedule of classes.

The registrar’s office processes requests to add, drop, or withdraw from courses; audit courses; repeat courses; change courses to pass/fail status; enroll in multiple sections of courses; change student names and addresses; change, add, or drop a student’s majors, minors, or focus; change or establish residency; declare academic renewal; and graduate from the university.

The registrar’s office also handles course registration; assists transfer students with enrollment in prerequisite and co-requisite classes; processes enrollment for all incoming and outgoing students who are enrolling through the Greater Cincinnati Consortium of Colleges and Universities or the Southwestern Ohio Council for Higher Education; processes graduation applications; handles enrollment and processing of benefits for veterans and their dependents; handles enrollment verification for any purpose; is responsible for maintaining and issuing official NKU transcripts; and processes and awards credit for CLEP, DSST, IB, Portfolio, ACE, and military- and Department of Defense-approved institution attendance.

Military Credit Evaluation

**Location:** Lucas Administrative Center 301
**Telephone:** 859-572-7609
**Fax:** 859-572-6094
**Web Address:** registrar.nku.edu/veterans.html

Military Credit Evaluation

The Office of the Registrar evaluates and certifies military transcripts for credit. Courses approved and recommended by the American Council of Education’s publication, Guide to Evaluation of Educational Experiences in the Armed Forces, will be considered for credit. A maximum of 32 semester hours may be earned upon submission of an official military transcript. All military transcripts including the Community College of the Air Force transcripts should be sent to: Office of the Registrar/Transfer Services, Northern Kentucky University, Highland Heights, KY 41099. Please allow two to four weeks for the entry and evaluation of a transcript. More information is available online (http://registrar.nku.edu/Veterans/Military_Credit_Evaluation.html).

Student Absence Due to Military Service

Students who are called up should bring a copy of their orders to the Office of the Registrar within 60 days of call-up. Orders may be brought in by a friend or family member, or faxed to 859-572-6094. The timing of the call-up affects the grades assigned:

- If call-up occurs during the first 12 weeks of the semester the student will receive a complete withdrawal with a full refund for the semester.
- If call-up occurs during the 13th or 14th week of the semester the student may elect to receive the grade earned to date in each course OR receive a W in each course with a full refund.
- If call-up occurs during the 15th or 16th week of the semester the student will receive the grade earned to date in each course.

The Division of Student Affairs promotes student success through transformational co-curricular programs and services that inspire and prepare students to be productive global citizens.

An array of programs, services, activities, and facilities are provided to promote academic achievement, student involvement, personal awareness, social and interpersonal development, leadership, and responsible citizenship. The vice president for student affairs provides administrative leadership for the division. The division is organized into two units: student development and student services.

**Student Government Association**

**Location:** Votruba Student Union 330
**Telephone:** 859-572-5149
**Fax:** 859-572-6173
**Email Address:** sga@nku.edu
**Web Address:** http://sga.nku.edu

The Student Government Association is an elected, representative student assembly. It is the official student organization representing the collective viewpoint of the student body on university policy or action. Besides serving as a liaison to the university’s administration, SGA works to promote a more meaningful university experience. It initiates and implements student-oriented programs and awards several student scholarships and book/special-needs grants.

SGA is composed of three distinct branches: the executive cabinet includes the president, vice president, secretary of public relations, secretary of administration, and secretary of student involvement; the legislative branch includes the student senate composed of 30 senators; and the judicial branch is composed of five judicial council members. The SGA president is a member of the university’s Board of Regents, which is the governing board for the entire university. Legislative powers of student government are vested in the student senate. Members of SGA’s cabinet and student senate represent students on several university committees.

SGA elections are held during the fall and spring semesters of each academic year. The assembly meets Mondays at 3:30 p.m. in Votruba Student Union 104, and all meetings are open for students to attend.

**Student Leadership Programs**

**Location:** Votruba Student Union 316
**Telephone:** 859-572-6514
**Fax:** 859-572-5774
**Email Address:** studentlife@nku.edu
**Web Addresses:** [http://nku.orgsync.com](http://nku.orgsync.com)
**Director:** Tiffany Mayse

**Other Key Personnel:**
Specialist for Student Organizations: Lori Smith

The Office of Student Leadership Programs assists students as they link their academic work to real-world pursuits. NKU students can learn, practice, and hone their leadership skills by taking advantage of the Northern Kentucky Leadership Institute and the more than 200 student organizations available at the university. Students can connect with other students who share similar interests, spirituality, or political causes. Students who get involved find better jobs, earn better grades, and are more likely to graduate. Moreover, they are more satisfied with their college experience. The Office of Student Leadership Programs serves as the coordinating office for the many activities and registered student organizations on campus, including those described here.

**Student Affairs**

**Location:** Lucas Administrative Center 832
**Telephone:** 859-572-6447
**Fax:** 859-572-1310
**Email Address:** studentaffairs@nku.edu
**Web Address:** http://studentaffairs.nku.edu
**Vice President for Student Affairs:** Kimberley Turner (interim)
Northern Kentucky Leadership Institute
Northern Kentucky Leadership Institute is the umbrella group of the three organizations that provide leadership programming for all NKU students – Norse Leadership Society, Freshmen Service Leadership Committee, and Leadership Mentors. NKLI also produces Leadership University for students interested in developing personal and professional skills independently. More information about the Northern Kentucky Leadership Institute, its programming, and the organizations is available in the Votruba Student Union room 329.

Norse Leadership Society
Norse Leadership Society is recognized by students, faculty, and staff as the premier leadership organization on campus. NLS is composed of outstanding student leaders with at least sophomore status. Members come from different backgrounds and display tremendous pride in the university. Most NLS members are also leaders in other student organizations and in the community. NLS provides programs and activities that will cultivate a broad base of leadership and developmental skills either independently or through association with other local organizations. Notable events held by NLS are the fall retreat, Fresh Start, the Presidents Academy, and Catalyst. For more information contact the Office of Student Engagement, third floor of the Votruba Student Union.

Freshman Service Leadership Committee
The Freshman Service Leadership Committee is a student organization dedicated to the development of freshmen as leaders through service. Members can be seen throughout campus, working fundraisers for one of their upcoming events or showing off their skills at NKU’s Service on Saturday. While attending FSLC meetings, students are given the opportunity to test their leadership skills, and learn more about being an effective leader through serving others. Members can be elected to an office on the executive board. In addition, students can chair a committee that will focus on helping facilitate group functions, social activities, and community service projects. For more information, email studentlife@nku.edu.

Leadership Mentors
Leadership mentors are NKU students with advanced leadership skills working collaboratively with other NKU students to train local high school students for their future leadership roles. For more information, stop by the Northern Kentucky Leadership Institute or Student Engagement in the Student Involvement Center, third floor of the Votruba Student Union. For more information email studentlife@nku.edu.

Student Media
Location: Griffin Hall 125
Telephone: 859-572-6128 (Editor); 859-572-5232 (Advertising)
Email Address: northerner@nku.edu
Web Addresses:
http://www.nku.edu/campuslife/involved/media.html
http://www.thenortherner.com
http://www.norsecoderradio.com
Adviser: Michele Day
Student Media, which is housed in the Department of Communication, provides budgetary and advisory support to student-run media, including Norse Code Radio, where students broadcast music and commentary via the Internet and The Northerner, an independent, free weekly student newspaper distributed on and near NKU’s Highland Heights campus and an independent student news website.

Student Union and Engagement
Office Location: Votruba Student Union 192
Telephone: 859-572-7774
Fax: 859-572-5296
Web Addresses: http://studentunion.nku.edu; http://nkustudentunionengagement.orgsync.com
Director: Sarah Aikman
Other Key Personnel:
- Associate Director: Chris Tambling
- Coordinator of Student Engagement: Leah Koch
- Technical Services Manager: Chris Bowling
- Office Manager: Maryann Trumble

The Votruba Student Union is the hub for activity on the NKU campus. Offices and services located in the Votruba Student Union include: African American Programs and Services; All Card; Center for Student Inclusiveness; Chartwells food services; conference services; Dean of Students; Fraternity and Sorority Life; Latino Programs and Services; LGBTQ Programs and Services; Norse Violence Prevention Center; Orientation and Parent Programs; Student Government Association; Student Leadership Development; Disability Services and Programs; Votruba Student Union room reservations and Votruba Student Union operations. The facility also includes a variety of places to eat, a game room, and meeting rooms. The information desk, located on the second floor, provides information concerning campus and building events; office locations; laptop checkout; postage stamps, and campus maps. The information desk also serves as the campus lost and found. Room reservations for these areas can be made through Astra Schedule or by contacting Sarah Aikman at 859-572-1940 or aikmans1@nku.edu

Activities Programming Board
The Activities Programming Board is the official student programming body of the university, coordinating events such as drive-in movies, Pumpkin Bust, hypnotists, lectures, comedy shows, and other activities that provide relief from the day’s stresses and provides for a social atmosphere where students can interact in a casual and fun setting. Students who join APB have the exciting opportunity to select programs provided on campus and then manage the event. For students who want to be part of the planning or just participate in the activities, APB has something for everyone. The Activities Programming Board’s office is located in the Student Involvement Center, Votruba Student Union 327, and members can be reached by email (apb@nku.edu).

Calendar
Activities available for NKU students are listed on the student engagement calendar available online (http://nku.orgsync.com/calendar).

Homecoming
Homecoming at NKU takes place early in the spring semester, coinciding with an NKU basketball game. There are multiple events throughout Homecoming Week including the Nearly Naked Run, Talent Show, Construction, Gold & White Gala, Yell Like Hell, and the announcements of campus royalty. The student engagement calendar provides a list of times and places for all who want to be part of the fun.

"N3" – Norse News Network
N3 is a newsletter published weekly by the Office of Student Engagement. It is delivered directly to students’ NKU email address to let them know what is happening on campus and in the community. Each edition includes information about important deadlines, campus activities, student organization events, volunteer opportunities, and co-op or internship opportunities that students will enjoy learning about and need to know. N3 provides up-to-date information that helps students connect with others and
build their on-campus network. For more information, contact studentlife@nku.edu.

**Student Organizations**

There are over 200 registered student organizations at NKU. Current and prospective students can learn more about the organizations from the Student Engagement website. All students have access to the OrgSync portal through their NKU username and password. Students use OrgSync to interact with organizations, members, and other students online. Students can create an OrgSync profile by going to their website and selecting “Register,” then clicking on “Northern Kentucky University” and selecting “Register.” Students who complete account and profile information are set. It’s fast, free, and easy. To join an organization through OrgSync, students can visit http://www.orgsync.com, log on, and select “Join an Org.” then browse for organizations of interest to them. Through the OrgSync portal, NKU students can document both their academic and co-curricular work through the co-curricular transcript and the e-portfolio.

**Testing Services**

**Location:** University Center 101  
**Telephone:** 859-572-6373  
**Fax:** 859-572-1574  
**Email Address:** testing@nku.edu  
**Web Address:** http://testing.nku.edu  
**Director:** Amy Danzo  
**Other Key Personnel:**  
Testing Services Coordinator: Laura Harrington  
Testing Services Coordinator: Cyndi Gump  
Administrative Specialist: Connie Seiter

Testing Services provides standardized and proctored examinations in a convenient and secure testing environment for the NKU community and region. Testing Services adheres to the standards set forth through the National College Testing Association.

Tests offered include admissions tests, such as the National ACT, Residual ACT, and COMPASS; Credit-by-Examination (CLEP and DSST); PRAXIS (Professional Assessments for Beginning Teachers), Informatics Competency Exams, and distance learning examinations. National certification and licensing exams are also available through Testing Services.

In addition, admitted freshmen and transfer students who do not meet current Kentucky CPE testing standards are required to take placement test(s) in English, mathematics, and reading through Testing Services. Students must complete placement testing prior to attending their registration program or registering for classes. Registration for placement testing is available online. Examinees are encouraged to browse the Testing Services website for detailed information regarding each test, as well as to register and pay for each test offered.

**Wellness Center**

**Location:** Founders Hall 235  
**Telephone:** 859-572-7781  
**Email:** wellness@nku.edu  
**Web Address:** http://wellness.nku.edu/student.html  
**Key Personnel:**  
Employee Wellness Manager: Kim Baker

The Wellness Center helps students, faculty, and staff live a healthy lifestyle during their time at NKU. From healthy dining options to massage therapy, the Wellness Center has just what students need to meet them wherever they are in their journey to a better life. Students can also find great opportunities for student employment, practicum experiences, or a place to volunteer. The Well Living Center is home to the NKU Wellness Center’s licensed massage therapists. It is a place to relax, rejuvenate, and recharge, located in Founders Hall 137. Students are welcome to contact the center with any questions they have about living a healthy life.

**University Center**

**Office Location:** University Center lobby information booth  
**Telephone:** 859-572-6103  
**Fax:** 859-572-5296  
**Web Address:** http://studentunion.nku.edu  
**Director:** Sarah Aikman  
**Other Key Personnel:**  
Associate Director: Chris Tambling  
Coordinator of Student Engagement: Leah Koch  
Technical Services Manager: Chris Bowling  
Office Manager: Maryann Trumble

The University Center houses a variety of support services for students. Offices and services located in the University Center include: the bookstore;
Foundation of Knowledge
The general education program guides students to become independent learners, innovative thinkers, and responsible citizens. The program gives students a foundation of values, knowledge, and skills that empower them to discover their personal potential, communicate effectively, work in diverse communities, and solve problems in a global society. Courses invite students to expand the lifelong practice of asking questions, seeking new points of view, applying principles of reason, adjusting ideas in relation to new situations, and taking reflective action.

Foundation of Knowledge Core Competencies

A – Critical Thinking
Students will demonstrate the ability to gather, process, interpret, and evaluate information; to develop a plan to apply that information appropriately to a variety of situations; and to assess the appropriateness and relevance of its application.

B – Perspectives
Students will demonstrate the ability to analyze and understand multiple historical and contemporary perspectives and cultural identities.

C – Communication
Students will demonstrate the ability to communicate a depth of understanding of that information through written, spoken, and visual media appropriate to audiences.

D – Science and Technology
Students will demonstrate an understanding of the scientific method in observing, evaluating, analyzing, and predicting phenomena in the natural and physical world.

E – Personal Responsibility and Community
Students will demonstrate an understanding of the ethical, moral, and pragmatic consequences of their choices and decisions, including the roles and responsibilities of citizenship.

Assessment of Core Competencies
All NKU students will be required to participate in a formal assessment of the core competencies at a minimum of two points during their academic career: upon entry to NKU and prior to graduation. Results will be used by the administration and faculty to ensure the continuous improvement of the educational experience provided to NKU students and to provide evidence that graduates have attained those competencies.

Program Requirements: Bachelor’s Degree Candidates
Bachelor’s degree candidates who begin their postsecondary education at NKU must satisfy the requirements listed below; transfer students may be able to receive credit for some or all of the general education requirements through the Kentucky Transfer Policy.

Program Requirements: Associate Degree Candidates
Associate degree candidates must satisfy the requirements listed here. The courses that satisfy each program category are listed after the program requirements for bachelor’s degree candidates.

<table>
<thead>
<tr>
<th>Program Categories</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>3</td>
</tr>
<tr>
<td>Written</td>
<td>6</td>
</tr>
<tr>
<td>Natural Sciences (including one lab course)</td>
<td>7</td>
</tr>
<tr>
<td>Mathematics and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Culture and Creativity (Arts and Humanities)*</td>
<td>6</td>
</tr>
<tr>
<td>Self and Society (Social and Behavioral Sciences)*</td>
<td>3</td>
</tr>
<tr>
<td>Cultural Pluralism</td>
<td>3</td>
</tr>
<tr>
<td>Individual and Society</td>
<td>6</td>
</tr>
<tr>
<td>Global Viewpoints</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL HOURS</td>
<td>37</td>
</tr>
</tbody>
</table>

*Kentucky Transfer Policy category.

General Information about Taking Courses
1. Students should consult the Foundation of Knowledge website (http://gened.nku.edu) to determine if there have been any changes in the courses approved for each category.
2. For three of the categories – scientific and quantitative inquiry, culture and creativity, and self and society – students may take only one course from the same discipline (for example, biology, mathematics, sociology, theatre). This restriction does not apply to communication or global viewpoints.
3. Global viewpoint courses can be explored from both the perspective of the arts/humanities and the social/behavioral sciences.
4. Students cannot use a single course to satisfy the requirements of two categories.
5. If a course approved for general education credit has a prerequisite or is limited to students meeting prescribed academic qualifications (such as a minimum level of performance on ACT or placement examinations), students must satisfy those requirements before taking the course.
6. Students who earn transfer credit within one semester hour of that necessary for completion of a general education course requirement will be considered to have completed that course requirement.
7. Some majors require specific general education courses. Students should consult the catalog or contact an advisor for more information.
8. Students should complete communication and mathematics requirements before the completion of 45 semester credit hours.

The Categories Comprising Foundation of Knowledge

Communication Category
The objectives of these courses are to teach students to effectively gather material relating to a focused topic using a variety of tools, sources, and search strategies; to demonstrate the ability to express ideas using oral communication skills with appropriate attention to topic and audience; to create and write coherent, grammatically-correct pieces for a variety of topics and audiences; to employ the principles of rhetorical communication; to comprehend college-level readings in various settings and disciplines; and to comprehend the ethical perspectives of responsibilities of individuals. The following courses are approved for this category:

Oral Communication: three semester credit hours required.
CMST 101: Public Speaking — three credit hours
CMST 110: Introduction to Communication Studies — three credit hours
TAR 111: Creative Expression — three credit hours

Written Communication I: three semester credit hours required.
ENG 101: College Writing — three credit hours
ENG 151H: Honors Freshman Composition — three credit hours*
*ENG 151H: satisfies both Written Communication I and II requirements, which reduces the student’s General Education requirements by three semester credit hours.

Written Communication II: three semester credit hours required.
ART 291W: Advanced Writing — Writing for Artists — three credit hours
BIO 291W: Advanced Writing in Biology — three credit hours
CHE 391W: Chemical Information and Writing — three credit hours
EGT 291W: Advanced College Writing — three credit hours
ENV 291W: Advanced Writing in Environmental Science — three credit hours
HIS 291W: Advanced Historical Writing — three credit hours
MUS 291W: Advanced Writing in the Music Profession — three credit hours

Scientific and Quantitative Inquiry Category
The objectives of these courses are to teach students to develop evidence-based arguments; to apply scientific and quantitative reasoning through problem solving or experimentation and effectively communicate results through scientific, analytic, and quantitative methods; to identify major concepts of science behind technological innovations or applications in our daily lives; and to distinguish between scientific and non-scientific methods. The following courses are approved for this category:

Natural Sciences: seven semester credit hours required for this category. One course must include a laboratory component; the two courses must be from different disciplines.
AST 110: Solar System Astronomy with Laboratory — four credit hours
AST 115: Stars, Galaxies, and Cosmology with Laboratory — four credit hours
BIO 120/120L: Understanding the Living World with Laboratory — four credit hours
BIO 121/121L: Diseases and the Systems They Affect with Laboratory — four credit hours
BIO 123: Human Ecology — three credit hours
BIO 125: Biological Perspective of Wellness — three credit hours
BIO 126: Human Nutrition — three credit hours
BIO 150/150L: Introduction to Biology I with Laboratory — four credit hours
BIO 158: Biological Evolution — three credit hours
BIO 208/208L: Human Anatomy and Physiology I with Laboratory — four credit hours
CHE 105: Discovering Chemistry with Laboratory — four credit hours
CHE 112/112L: Chemistry and Society with Laboratory — four credit hours
CHE 115/115L: Physiological Chemistry with Laboratory — four credit hours
CHE 120/120L: General Chemistry I with Laboratory — four credit hours
EGT 110: Introduction to Engineering/Technology — three credit hours
ENV 110: Introduction to Environmental Science and Issues — three credit hours
ENV 220/220L: Protecting Water Resources with Laboratory — four credit hours
GEO 108: Physical Geography: Climate, Vegetation, Soils and Landforms — three credit hours
GLY 110: The Face of the Earth with Laboratory — four credit hours
GLY 120: This Dangerous Earth — three credit hours
GLY 225: Prehistoric Life — three credit hours
GLY 230: Geology of National Parks — three credit hours
INF 120: Elementary Programming — three credit hours
PHY 101: Einstein 101 — three credit hours
PHY 110: Introductory Physics with Laboratory — four credit hours
PHY 211: General Physics I with Laboratory — four credit hours
PHY 220: University Physics I with Laboratory — four credit hours
SCI 110: Integrative Natural Science includes Laboratory — four credit hours

Mathematics and Statistics: three semester credit hours required.
MAT 114: Finite Mathematics — three credit hours
MAT 115: Mathematics for Liberal Arts — three credit hours
MAT 128: Calculus A — three credit hours
MAT 129: Calculus I — four credit hours
MAT 185: Introductory Discrete Mathematics — three credit hours
PHI 265: Logic — three credit hours
STA 113: Introduction to Probability and Statistics — three credit hours
STA 205: Introduction to Statistical Methods — three credit hours
STA 212: Statistics for Business Applications I — three credit hours

Self and Society Category
The objectives of these courses are to teach students to effectively gather material relating to a focused topic using a variety of tools, sources, and search strategies; to identify, interpret, and evaluate assumptions, evidence, conclusions, and theories; to understand economic, political, and social legacies of imperialism and colonialism, with reference to the linguistic or
cultural diversity, for societies, groups, and individuals; to compare historical perspectives on the development of various cultures; to identify the connections and differences among local, national, and global communities; to demonstrate how literature and the arts reflect and influence cultures; to distinguish between scientific and non-scientific explanations by employing scientific methods; to understand the influence of cultural and socioeconomic backgrounds in shaping attitudes and opinions (in themselves and others); and to demonstrate an understanding of the variety of influences on human behavior. The following courses are approved for this category:

**Cultural Pluralism: three semester credit hours required to satisfy the category, and course must be from a different discipline than courses taken to satisfy the Individual and Society category.**

- ANT 201: World Cultures – three credit hours
- ANT 230: North American Indians – three credit hours
- ANT 231: Modern American Indians – three credit hours
- ANT 245: Peoples of Latin America and the Caribbean – three credit hours
- ANT 270: Native Australia and Oceania – three credit hours
- BLS 100: Introduction to Black Studies – three credit hours
- EDU 316: Racism and Sexism in Education Institutions – three credit hours
- EMB 105: Race, Gender, and the Mass Media – three credit hours
- MUS 110: Appreciation of Jazz – three credit hours
- SOC 101: Global Inequalities – three credit hours
- SWK 105: Social Work and the Community – three credit hours
- TAR 102: Race, Gender and Theatre – three credit hours
- WGS 150: Introduction to Contemporary Gender Issues – three credit hours

**Individual and Society: six semester credit hours required to satisfy the category. Each course must be from a different discipline, and neither course can be from the same discipline as the course taken to satisfy the Cultural Pluralism category.**

- ANT 100: Introduction to Cultural Anthropology – three credit hours
- ANT 110: Introduction to Archaeology – three credit hours
- BIS 111: Problem Solving and Creativity – three credit hours
- ECO 200: Principles of Macroeconomics – three credit hours
- ECO 201: Principles of Microeconomics – three credit hours
- INF 128: Principles of Informatics – three credit hours
- IST 185: Seminar: Introductory Topics – three credit hours
- JOU 110: Introduction to Mass Communication – three credit hours
- JUS 101: Introduction to Criminal Justice – three credit hours
- LIN 175: Information Literacy – three credit hours
- PHI 110: Philosophy, Individuals and Society – three credit hours
- PSC 100: American Politics – three credit hours
- PSC 101: State and Local Politics – three credit hours
- PSY 100: Introduction to Psychology – three credit hours
- SOC 100: Introduction to Sociology – three credit hours

**Culture and Creativity Category**

The objectives of these courses are to teach students to effectively gather material relating to a focused topic using a variety of tools, sources, and search strategies; to explore the implications and consequences of their initial conclusions and use them to generate new ideas, questions, and directions for further inquiry; to compare historical perspectives on the development of various cultures; and to demonstrate how literature and the arts reflect and influence cultures. The following courses are approved for this category:

**Six semester credit hours required to satisfy this category. Each course must be from a different discipline.** Bachelor’s degree candidates are limited to three credit hours (one course) of foreign language to satisfy this category. Associate degree candidates may not use a foreign language course to satisfy this category.

- ARI 101: Elementary Arabic I – three credit hours
- ART 100: Art Appreciation – three credit hours
- CHI 101: Elementary Chinese – three credit hours
- EMB 100: Media Literacy – three credit hours
- ENG 200: Understanding Literature – three credit hours
- ENG 214: Literature Across History – three credit hours
- ENG 302: Literature and Film – three credit hours
- ENG 316: Social Issues in Literature – three credit hours
- FRE 101: Elementary French I – three credit hours
- GER 101: Elementary German I – three credit hours
- HIS 102: History of the U.S. through 1877 – three credit hours
- HIS 103: History of the U.S. since 1877 – three credit hours
- ITA 101: Elementary Italian I – three credit hours
- JPN 101: Elementary Japanese I – three credit hours
- KOR 101: Elementary Korean I – three credit hours
- MUS 100: Music Appreciation – three credit hours
- PHI 181: Philosophers, Cultures and Creativity – three credit hours
- POP 205: Introduction to Popular Culture – three credit hours
- POP 250: International Popular Culture – three credit hours
- REL 200: World Religions and Cultures – three credit hours
- RUS 101: Elementary Russian I – three credit hours
- SPA 101: Elementary Spanish I – three credit hours
- TAR 100: Theatre Appreciation – three credit hours
- TAR 165: Comparative Arts – three credit hours

**Global Viewpoints Category**

The objectives of these courses are to teach students to understand economic, political, and social legacies of imperialism and colonialism, with reference to linguistic or cultural diversity, for societies, groups, and individuals; to compare historical perspectives on the development of various cultures; to identify connections and differences among local, national, and global communities; to demonstrate how literature and the arts reflect and influence cultures; to comprehend the ethical perspectives and responsibilities of individuals; to understand the influence of cultural and socioeconomic backgrounds in shaping attitudes and opinions (in themselves and others); and to demonstrate an understanding of the variety of influences on human behavior. The following courses are approved for this category:

**Three semester credit hours required to satisfy this category.**

- ANT 100: Introduction to Cultural Anthropology – three credit hours
- ANT 114: Great Archaeological Sites – three credit hours (offered summer only)
- BIO 235: Costa Rican Natural History – three credit hours
- ENG 213: Global Viewpoints in Literature – three credit hours
- GEO 100: Global Viewpoints on Geography and the Human Landscape – three credit hours
- GLY 120: This Dangerous Earth – three credit hours
- HIS 111: Global Viewpoints in History – three credit hours
- JUS 231: Race, Gender and Crime – three credit hours
- LDR 160: Leadership Around the World – three credit hours
- MUS 106: Music of World Cultures – three credit hours
- PHI 200: Ethics – three credit hours
- PHI 220: Health Care Ethics – three credit hours
- PSC 102: Comparative Politics – three credit hours
- PSC 103: International Politics – three credit hours
PSC 110: Political Ideas – three credit hours  
SOC 100: Introduction to Sociology – three credit hours  
SOC 101: Global Inequalities – three credit hours  
SWK 106: Introduction to Social Justice – three credit hours

**Kentucky Transfer Policy**

The Kentucky Council on Postsecondary Education and other Kentucky institutions developed and approved the Kentucky Transfer Policy to facilitate student progress to graduation and ease transfer between state institutions. Students must have a cumulative GPA of 2.0 or higher to qualify for the Kentucky Transfer Policy.

**Certification of General Education Blocks**

For a student transferring from a public college or university of the commonwealth of Kentucky, there are three levels of general education certification. Each level is based on the number and category of courses taken. Students can complete general education courses in categories (also referred to as blocks), as a core component, and as a complete general education program. Each level of certification is identified below.

1. **General Education Category Certified.** Students who have completed some but not all of the five categories in the Core Component will be "category certified" for purposes of transfer. Individuals in this situation must fulfill all of the remaining general education requirements of the receiving institution that have not been satisfied through category certification.

2. **General Education Core Certified.** Students who have completed all of the categories – the core component – with a minimum of 30 unduplicated credit hours will be "core certified" for purposes of transfer. Individuals in this category must fulfill the remaining general education requirements of the receiving institution that have not been satisfied through the core component.

At NKU, this means completing three credit hours in the Global Viewpoints category.

<table>
<thead>
<tr>
<th>Kentucky Transfer Policy Category</th>
<th>Northern Kentucky University General Education Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication – six to nine credit hours</td>
<td>Communication</td>
</tr>
<tr>
<td>Oral – three credit hours</td>
<td>Written – six credit hours</td>
</tr>
<tr>
<td>Written – six credit hours</td>
<td></td>
</tr>
<tr>
<td>Arts and Humanities – six to nine credit hours</td>
<td>Culture and Creativity – six credit hours</td>
</tr>
<tr>
<td>Mathematics – three credit hours</td>
<td></td>
</tr>
<tr>
<td>Quantitative Reasoning – three to six credit hours</td>
<td>Mathematics – three credit hours</td>
</tr>
<tr>
<td>Natural Sciences – seven credit hours</td>
<td>Natural Sciences – seven credit hours</td>
</tr>
<tr>
<td>Social and Behavioral Sciences – six to nine credit hours</td>
<td>Self and Society – nine credit hours</td>
</tr>
<tr>
<td>Global Viewpoints – three credit hours</td>
<td></td>
</tr>
</tbody>
</table>

3. **General Education Fully Certified.** Students who have completed a general education program, with a minimum of 30 unduplicated semester credit hours or the equivalent (may include a SACS justification for fewer hours) which includes the core component and all additional institutional-specific general education courses, will be "general education fully certified" for purposes of transfer. If the receiving institution’s general education program requires a sum of hours that is less than the total the student has taken at the sending institution, the excess hours will be accepted for transfer by the receiving institution and evaluated for application toward degree requirements. There may be graduation requirements beyond general education requirements that a student will need to complete (e.g., senior year capstone experiences).
The College of Arts and Sciences is not only the largest of the six colleges at Northern Kentucky University, but we also offer the most diverse collection of undergraduate and graduate degree programs and the widest array of general education courses. All students will discover something of interest in our classes and leave better prepared to solve problems, create, discover, communicate, and influence their communities and the world around them. Students in Arts and Sciences may choose from among 30 undergraduate majors and more than 49 minors. We offer undergraduate certificates in 6 areas, and graduate certificates and master’s degrees in 10 areas. Pre-professional programs are available for students interested in specific career paths such as medicine, pharmacy, law, engineering, forestry and wildlife management. Students interested in experiencing multiple disciplines and understanding the connections among them may choose from many interdisciplinary program options at the undergraduate and graduate levels.

We look forward to welcoming you to the College of Arts and Sciences and helping you succeed throughout your university experience and beyond!

College Advising Center

Location: University Center 218C
Telephone: 859-572-5494
Fax: 859-572-1444
Email Address: coas advising@nku.edu
Web Address: http://artscience.nku.edu/advisingcenter.html

Key Personnel:
Assistant Dean and Director: Amy Racke
Academic Advisors: Casey Thompson, Tiffany Freytag
Academic Assistant: Brittany Campbell

The center helps students who have issues that need approval from the assistant dean. These include but are not limited to problems with graduation, withdrawal from classes, registration, probation, suspension, and reinstatement. The advisors in the center assist all undeclared majors in the College of Arts and Sciences with course selection and general education requirements, transfer credit, personal time management, and varied program possibilities. In addition, they address all advising needs for students interested in but not yet admitted to the following selective admission programs: biological sciences, chemistry, criminal justice, international studies, music, organizational leadership, and political science.

Departments

- Biological Sciences
- Chemistry
- English
- History and Geography
- Mathematics and Statistics
- Music
- Physics and Geology
- Political Science, Criminal Justice, and Organizational Leadership
- Psychological Science
- Sociology, Anthropology, and Philosophy
- Theatre and Dance
- Visual Arts
- World Languages and Literatures

Accreditations

- American Chemical Society – Chemistry
- National Association of Schools of Music – Music
- Network of Schools of Public Policy, Affairs and Administration – Political Science and Criminal Justice
- Technology Accreditation Commission of ABET, Inc. – Electrical Engineering Technology, Mechanical and Manufacturing Engineering Technology

Centers

Center for Applied Anthropology

Location: Landrum Academic Center 228
Telephone: 859-572-5702
Fax: 859-572-6086
Email Address: cfaa@nku.edu
Web Address: http://cfaa.nku.edu
Director: Douglas W. Hume

This center collaborates and conducts community-based ethnographic research with local, national, and international nonprofit and governmental agencies. The CFAA partners with the Scripps Howard Center for Civic Engagement, Kentucy Campus Compact, NKU Office of Education Abroad, and the Cooperative Center for Study Abroad to provide service-learning projects for NKU students both in the United States and abroad. Anthropological theory and method is uniquely equipped to provide ethnographic data to assist projects involving local human communities and other project stakeholders. Our methods include ethnographic interviews, qualitative analyses, questionnaires, and quantitative analyses.

The Burkardt Consulting Center

Location: Mathematics-Education-Psychology Center 463
Telephone: 859-572-1325
Fax: 859-572-6097
Email Address: bcc@nku.edu
Web Address: http://bcc.nku.edu
Director: Joseph Nolan
Assistant Director: Mary Lee Glore

The Burkardt Consulting Center provides assistance with a wide variety of mathematical and statistical projects, studies, and experiments that involve elements of statistics and/or mathematics. The center also
provides a venue for undergraduate mathematics/statistics majors at NKU to gain valuable internship experience in which they (under the direction of our faculty) consult with clients on real-world problems.

Center for Environmental Education

**Location:** Founders Hall 509  
**Telephone:** 859-572-7680  
**Fax:** 859-572-6179  
**Email Address:** enved@nku.edu  
**Web Address:** http://enved.nku.edu  
**Director:** Rosie Santos (interim)

The Center for Environmental Education provides instructional training, resources, and programs for environmental educators in P-12 schools and the community. NKU undergraduate students are involved with the work of the CEE via undergraduate research, teaching experiences, and lesson development. The CEE is managed by the Center for Integrative Natural Science and Mathematics (CINSAM) and works closely with CINSAM to promote environmental literacy in northern Kentucky. The CEE works with teachers and their students and NKU faculty and students to promote hands-on, experiential learning experiences in the classroom and in field locations.

Center for Integrative Natural Science and Mathematics

**Location:** Founders Hall 502  
**Telephone:** 859-572-5381  
**Fax:** 859-572-6179  
**Email Address:** cinsam@nku.edu  
**Web Address:** http://cinsam.nku.edu  
**Director:** John Farrar  
**Other Key Personnel:**  
Assistant Director, Outreach and Events: Madhura Kulkarni  
Science, Technology, Engineering and Mathematics Recruiting Director: Thomas B. Brackman  
Outreach Specialists: Carrie Holloway and Lila Brindley

The Center for Integrative Natural Science and Mathematics, established in 1999 as NKU’s program of distinction, strives to enhance the teaching, learning, and applying of science and mathematics at NKU and in the northern Kentucky region through interdisciplinary collaboration. CINSAM engages teachers of science and mathematics by offering integrative science and mathematics coursework for prospective teachers and by programs of outreach and continuing education for current teachers. CINSAM supports the science and mathematics programs at NKU in the recruitment, retention, and graduation of STEM students. In addition, CINSAM funds collaborative research between NKU faculty and students. CINSAM engages with the community through summer camps and outreach events for area students and by working with industry and government on joint projects involving NKU faculty and students.

Center for Public History

**Location:** Landrum Academic Center 405  
**Telephone:** 859-572-6186  
**Email Address:** centerforpublichisto@nku.edu  
**Web Address:** http://publichistory.nku.edu  
**Director:** Paul Tenkotte  
**Assistant Director:** Brian Hackett

The Center for Public History supports the civic engagement and community outreach activities of the faculty and students of the history and geography department providing students with practical and real-world experiences in the promotion, presentation and preservation of local and regional history. The center also provides a venue for department faculty to showcase their work as it actively plans, supports and implements history-related projects in the tri-state area.
Department of Biological Sciences

Location: Hermann Science Center 204D
Telephone: 859-572-5110
Fax: 859-572-5639
Email Address: biosci@nku.edu
Web Address: http://biology.nku.edu
Department Chair: Kristi L. Haik

Other Key Personnel:
- Assistant Chair/Retention Specialist: Denice N. Robertson
- Academic Advisor: Lynn Crane
- Department Coordinator: Kate Eubanks
- Secretary: Victoria Hugo

Full-Time Faculty: Charles A. Acosta, Hildegard Baldridge, Bethany V. Bowling, Richard L. Boyce, John C. Carmen, Christine Curran, Gregory Dahlem, Debbi S. Dempsey, Richard D. Dursche, Kristi L. Haik, Jon M. Hastings, Kristine N. Hopfensperger, Miriam Steinitz Kannan, Joseph Mester, Debra Pearce, Denice N. Robertson, Patrick J. Schultheis, Kirsten Schwarz, Michael P. Scola, Emily Shifely, Erin Strome, E. David Thompson, Lindsey Walters, Mary K. Whitson

Undergraduate Programs:

Majors:
- Bachelor of Arts
  - Biological Sciences
  - General Biology Track
  - Teacher Education Track

Bachelor of Science

Biological Sciences
  - General Biology Track
  - Cellular/Molecular/Genetics Track
  - Ecology/Evolution/Organismal Track
  - Environmental Science (see interdisciplinary section of catalog)
  - Forensic Science Track

Pre-professional programs:

NOTE: The following are not majors; they are areas of emphasis for advising purposes. Other pre-professional programs can be found in the section of the catalog dealing with pre-professional programs. The pre-professional programs that fit well with biology are: pre-physician assistant, pre-optometry, pre-medical, pre-dentistry, pre-pharmacy, pre-physical therapy, and pre-veterinary medicine.
- Pre-forestry*
- Pre-wildlife management*
- *Information about these programs can be found in the Biological Sciences section of the catalog.

Minor:

- Biological Sciences

Interdisciplinary Minors: (see interdisciplinary section of catalog)
  - Environmental Studies
  - Evolutionary Studies
  - Neuroscience

Thinking about the discipline: A major in the biological sciences can lead to a variety of careers including laboratory and field research, medicine, dentistry, veterinary medicine, pharmacy, physical therapy, teaching, forensics, and many others.

Special opportunities for our students: The best way for students to learn about science is by doing science. Therefore, the department strongly encourages all students majoring in biology to participate in research with a faculty member. Students can begin learning about research in "BIO 292: Introduction to Research in Biology" and continue working with a faculty member in "BIO 399: Techniques of the Biological Sciences." In BIO 399 students will learn techniques they can use in "BIO 492: Directed Research: Biological Sciences." Students present their data at local, state, and national professional meetings.

Biology courses are offered in a variety of countries each year, presenting students with the opportunity for international experiences. In addition, the department has four very active clubs: Tri-Beta National Honor Society, Health Professions Club, Environmentally Concerned Organization of Students, and Biology Integration and Outreach for Teaching Advancement.

Special admission requirements: The admission standards for all students pursuing degrees in biology (all tracks) and those interested in pre-professional areas offered by the department are: mathematics ACT ≥ 22 and CPE minimum standards of 18 English and 20 reading, or successful completion of appropriate developmental courses. Transfer students must also meet these requirements before declaring a biology major.

Special graduation requirements: Prior to graduation, all students majoring in biology are required to pass a comprehensive exam. This examination is designed to verify that the graduating student has at least a basic knowledge of the broad area of the biological sciences. Students will complete this requirement by registering for "BIO 491: Comprehensive Examination" during the senior year. Those who fail the exam will not be allowed to graduate until the exam is passed.

Biological Sciences Course Groups

Cellular/Molecular/Genetics Group

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 302</td>
<td>General Microbiology</td>
</tr>
<tr>
<td>BIO 358</td>
<td>Evolution of Organisms</td>
</tr>
<tr>
<td>BIO 360</td>
<td>Advanced Biology of the Cell</td>
</tr>
<tr>
<td>BIO 400</td>
<td>Advanced Molecular Biology</td>
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<tr>
<td>BIO 402</td>
<td>Evolutionary Neurobiology</td>
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<tr>
<td>BIO 425</td>
<td>Mammalian Anatomy and Physiology I</td>
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<td>BIO 426</td>
<td>Mammalian Anatomy and Physiology II</td>
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<tr>
<td>BIO 430</td>
<td>Immunology</td>
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<td>BIO 446</td>
<td>Plant Physiology</td>
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<td>BIO 452</td>
<td>Cancer Genetics</td>
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<td>BIO 467</td>
<td>Endocrinology</td>
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<td>BIO 470</td>
<td>Medical Microbiology</td>
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<td>BIO 475</td>
<td>Virology</td>
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<tr>
<td>CHE 482</td>
<td>Biochemistry</td>
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Ecology/Evolution/Organismal Group

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<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 300</td>
<td>Comparative Vertebrate Anatomy</td>
</tr>
<tr>
<td>BIO 301</td>
<td>Invertebrate Zoology</td>
</tr>
<tr>
<td>BIO 303</td>
<td>Vertebrate Zoology</td>
</tr>
<tr>
<td>BIO 305</td>
<td>Developmental Biology</td>
</tr>
<tr>
<td>BIO 309</td>
<td>Plant Ecology</td>
</tr>
<tr>
<td>BIO 311</td>
<td>Mycology</td>
</tr>
<tr>
<td>BIO 313</td>
<td>General Botany</td>
</tr>
<tr>
<td>BIO 320</td>
<td>Entomology</td>
</tr>
<tr>
<td>BIO 404</td>
<td>Herpetology</td>
</tr>
<tr>
<td>BIO 406</td>
<td>Ecosystem Ecology</td>
</tr>
<tr>
<td>BIO 407</td>
<td>Ornithology</td>
</tr>
<tr>
<td>BIO 409</td>
<td>Biogeography</td>
</tr>
</tbody>
</table>
Biological Sciences Majors

Bachelor of Arts and Bachelor of Science with a major in Biological Sciences

Students pursuing a degree in the biological sciences may do so by choosing one of six different tracks. These tracks allow the individual student to place an emphasis on areas of biology that he or she finds of interest. However, the faculty of the department feel very strongly that each student completing a degree in biology must have a solid foundation in the discipline. Therefore, there is a core of courses required of all majors. A grade of C- or better must be earned in all biology courses that count toward completion of major requirements. The department has also identified a common core of support courses that must be completed with a C- or better by all biological science majors. Details concerning the biology core, support core, and each of the tracks follow.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.A. and B.S. – Biological Sciences

<table>
<thead>
<tr>
<th>Core Courses in Biological Sciences</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 150/150L Introduction to Biology I with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIO 151/151L Introduction to Biology II with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIO 155 Orientation to Biology</td>
<td>1</td>
</tr>
<tr>
<td>BIO 349/349L Genetics with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIO 291W Advanced Writing in Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 304 General Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 491 Comprehensive Examination</td>
<td>0</td>
</tr>
</tbody>
</table>

Credits in Biological Sciences 19

Core Courses in Other Disciplines

<table>
<thead>
<tr>
<th>Core Courses in Other Disciplines</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 120/120L and CHE 121/121L General Chemistry I and II with Laboratory</td>
<td>8</td>
</tr>
<tr>
<td>PHY 211 and PHY 213 General Physics with Laboratory I and II</td>
<td>25</td>
</tr>
<tr>
<td>-- OR --</td>
<td></td>
</tr>
<tr>
<td>PHY 220 and PHY 222 University Physics with Laboratory I and II</td>
<td>8-10</td>
</tr>
<tr>
<td>STA 205 Introduction to Statistical Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Foreign language requirement: All biological science majors are required to complete the 102 level or higher of a foreign language. Students may satisfy this requirement by completing the appropriate two-course sequence in a foreign language, or via CLEP or AP exam equivalency. 0-6

Credits in Other Disciplines 19-27

TOTAL CORE CREDITS 38-46
B.A. General Biology Track* Credits
BIO 304L Ecology Laboratory 1
BIO 358 Evolution of Organisms 3
Select one course from the cellular/molecular/genetics group 3-4
Select one course from the ecology/evolution/organismal group 3-4
Select one course from the field biology group 3-4
Select two BIO elective courses 3-4
*One course must be an animal course and one must be a plant course.
CHE 310/310L Organic Chemistry I with Laboratory 4
TOTAL TRACK CREDITS 24-28
Total Core Credits 38-46
TOTAL CREDITS 62-74

*This track is not recommended for those who wish to pursue a postgraduate education in the sciences.

B.S. General Biology Track Credits
BIO 304L Ecology Laboratory 1
BIO 358 Evolution of Organisms 3
Select one course from the cellular/molecular/genetics group 3-4
Select one course from the ecology/evolution/organismal group 3-4
Select one course from the field biology group 3-4
Select one BIO elective 4
CHE 310/310L Organic Chemistry I 4
CHE 311/311L Organic Chemistry II with Laboratory 4
Select another advanced CHE, GLY, PHY, or GEO course 3-4
MAT 112 Applied Calculus 3-4
MAT 129 Calculus I 3-4
TOTAL TRACK CREDITS 27-32
Total Core Credits 38-46
TOTAL CREDITS 65-78

B.S. Cellular/Molecular/Genetics Track Credits
BIO 342 Biometry 4
BIO 302/302L General Microbiology with Laboratory 4
BIO 400/400L Advanced Molecular Biology with Laboratory 4
BIO 360 Advanced Biology of the Cell 3-4
Select two courses from the cellular/molecular/genetics group 6-8
CHE 310/310L Organic Chemistry I with Laboratory 4
CHE 311/311L Organic Chemistry II with Laboratory 4
CHE 482 Biochemistry I 3
CHE 483 Biochemistry II 3
MAT 112 Applied Calculus 3-4
MAT 129 Calculus I 3-4
TOTAL TRACK CREDITS 34-38
Total Core Credits 38-46
TOTAL CREDITS 72-84

B.S. Ecology/Evolution/Organismal Track Credits
BIO 342 Biometry 3
BIO 358 Evolution of Organisms 3
BIO 304L Ecology Laboratory 1

Select one course from the ecology group 3-4
Select two courses from the organismal group 6-8
Select one course from the field biology group 3-4
CHE 310/310L Organic Chemistry I with Laboratory 4
CHE 311/311L Organic Chemistry II with Laboratory 4
-- OR --
Select another advanced CHE, GLY, PHY, or GEO course 3-4
MAT 112 Applied Calculus 3-4
MAT 129 Calculus I 3-4
TOTAL TRACK CREDITS 29-35
Total Core Credits 38-46
TOTAL CREDITS 67-81

B.S. Forensic Science Track* Credits
BIO 342 Biometry 3
BIO 302/302L General Microbiology with Laboratory 4
BIO 320/320L Entomology with Laboratory 4
BIO 400/400L Advanced Molecular Biology with Laboratory 4
BIO 455 Scanning Electron Microscopy 3-4
CHE 350/350L Instrumental Analysis with Laboratory 4
CHE 310/310L Organic Chemistry I with Laboratory 4
CHE 311/311L Organic Chemistry II with Laboratory 4
CHE 340/340L Analytical Chemistry with Laboratory 4
CHE 482/482L Biochemistry I with Laboratory 4
JUS 101 Introduction to Criminal Justice 3
JUS 204 Criminal Investigation 3
MAT 129 Calculus I 4
TOTAL TRACK CREDITS 44-45
Total Core Credits 38-46
TOTAL CREDITS 82-91

*This track is designed to provide students who wish to pursue a career in forensic science with a solid background in the sciences while giving them the basic knowledge that they will need in order to succeed in the criminal justice system. It is strongly recommended that majors in the track complete the minor in criminalistics offered by the Department of Political Science, Criminal Justice, and Organizational Leadership. By doing so, they will be much better prepared to work with law enforcement professionals. This track is designed to ensure that graduates who later decide to pursue some other area of work in the biological sciences or go to graduate school can do so with little if any additional coursework.

B.A. Biology Teacher Education Track* Credits
BIO 358 Evolution of Organisms 3
BIO 304L Ecology Laboratory 1
Select one plant course with laboratory 3-4
Select one animal course with laboratory 4
Select one course from the cellular/molecular/genetics group 3-4
EDU 104 Orientation: Education Profession/Program 1
PSY 100 Introduction to Psychology 3
TOTAL TRACK CREDITS 18-20
Total Core Credits 38-46
TOTAL CREDITS 56-66
*Additional EDU and EDA education courses (see College of Education and Human Services) are required. Students pursuing a biology/secondary education curriculum should review that portion of this catalog relating to secondary education. Upon deciding to pursue the teacher education program, students must meet with the certification specialist in the College of Education and Human Services. Each student will also be assigned an advisor from the Department of Biological Sciences who will work closely with him or her to make sure all requirements are met in a timely manner and in the proper sequence.

Pre-Professional Programs

Additional pre-professional programs may be found in the Pre-Professional Programs section of the catalog.

Pre-Forestry

Students interested in forestry may take their first two years of coursework at NKU and then finish work for the bachelor’s degree in forestry at a forestry school. Realizing that many students do not go on to forestry school for one reason or another, the department recommends that students follow a B.S. or B.A. track. By so doing, it is likely that little if any credit will be lost if a change of direction does occur. In addition to pre-professional requirements, students will have to complete general education requirements for the school they will attend.

Pre-professional requirements for the forestry school at the University of Kentucky include the following:

- MAT 119: Precalculus Mathematics
- MAT 129: Calculus I
- STA 205: Introduction to Statistical Methods
- CHE 120: General Chemistry I
- CHE 121: General Chemistry II
- BIO 150: Introduction to Biology I
- BIO 151: Introduction to Biology II
- BIO 155: Orientation to Biology
- PHY 211: General Physics with Laboratory I
- ECO 201: Principles of Microeconomics
- AEC Economics of Food and Agriculture (to be taken at UK)
- GEO 306: Environmental Resource Management

At the earliest opportunity, students should schedule an appointment with an advisor and consult the catalogs or websites of any forestry schools that they plan to consider. The University of Kentucky website is www.ca.uky.edu/forestry. The curriculum plan for general biology may be used as a guide for planning the first year of coursework.

Pre-Wildlife Management

Students interested in wildlife management may complete their first two years of coursework at NKU and then finish work for the bachelor’s degree in wildlife management at a university offering such a degree. Realizing that many students do not go on to a wildlife management program for one reason or another, they are advised to follow a B.S. or B.A. track. By so doing it is likely that little if any credit will be lost if a change of direction does occur. At the earliest opportunity, students should consult the catalog or website for the wildlife management program they plan to attend and work with an NKU advisor to make certain that minimum requirements for admission are met.

Biological Sciences Minor

Minor in Biological Sciences

Students must earn at least a C- in all biology courses contributing to the minor.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

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**Requirements for Minor: Biological Sciences**

<table>
<thead>
<tr>
<th>Course(s)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 150/150L Introduction to Biology I with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIO 151/151L Introduction to Biology II with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHE 120/120L General Chemistry I with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHE 121/121L General Chemistry II with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>MAT 112 Applied Calculus</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one 300/400/500-level mathematics course</td>
<td></td>
</tr>
<tr>
<td>Select 12 additional credit hours of BIO courses with at least 9 at the 300 level or above**</td>
<td>12</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>31</strong></td>
</tr>
</tbody>
</table>

* A student can place out of the prerequisite requirement if he or she has a mathematics ACT ≥ 23 or mathematics SAT ≥ 540.

** Transfer students must complete the additional 12 credits from NKU.
**Department of Chemistry**

**Location**: Herrmann Science Center 204F  
**Telephone**: 859-572-5409  
**Fax**: 859-572-5162  
**Email Address**: chemistry@nkku.edu  
**Web Address**: http://chemistry.nku.edu  
**Department Chair**: Keith Walters  
**Other Key Personnel**:  
- Freshman Specialist: Laura L. Padolik  
- Academic Advisor: Julia Yang Bedell  
- Department Coordinator: Kathryn Lovold  
- Stockroom/Lab Coordinator: Kris Mason  
- Freshman Lab Coordinator: Jim Wilkinson  

**Full-Time Faculty**: P.J. Ball, Charlisa Daniels, Grant A. Edwards, John Farrar, Gwen Fields, Kebede Gemene, Michael Guy, Patrick Hare, Isabelle Lagadic, Lili Ma, Diana McGill, Celeste Morris, Amber Onorato, Laura L. Padolik, K.C. Russell, Bradley Sivee, Keith Walters

---

**Undergraduate Programs**

**Majors**:
- Bachelor of Science  
- Biochemistry Track*  
- Forensics Track*  
- General Chemistry (certified by the American Chemical Society)  
- Bachelor of Arts  
- Chemistry  
- Pre-Professional Areas of Emphasis**  
- Pre-dental  
- Pre-medical  
- Pre-pharmacy  
- Pre-physical therapy  
- Pre-veterinary medicine  

**Minor**:
- Chemistry  
*These major tracks may also be American Chemical Society certified depending on courses chosen as electives.  
**These areas may be selected by majors in the B.S. General Chemistry, B.S. Biochemistry, or B.A. Chemistry tracks, and more information is found in the pre-professional section of the catalog.

**Thinking about the discipline**: Students who choose to major in chemistry are inquisitive and good problem solvers. A degree in chemistry prepares students to become professional chemists and biochemists and to enter graduate programs or professional programs such as medical, pharmacy, dental, veterinary, and law school. Graduates from NKU’s chemistry program are successful industrial and environmental chemists, forensic scientists, physicians, pharmacists, college professors, and high school teachers. Some graduates choose unconventional career paths such as pharmaceutical and medical equipment sales, public health administration, and even banking or finance. In short, the training students receive in this rigorous, student-centered curriculum prepares them to be successful in any field that requires creativity, critical thinking, and problem-solving skills.

**Special opportunities for our students**: Students interested in chemistry have many opportunities outside the classroom where they can apply their skills and interests. The department is extremely well equipped to support faculty-student collaborative work, and the department strongly encourages students to work with a professor on an undergraduate research project. Students have the opportunity to participate in several different vibrant research groups as well as to participate in regional internship opportunities. The department also has a very active student group, the Student Affiliates of the American Chemical Society, as well as an honor society, Gamma Sigma Epsilon Chemistry Honor Society (www.gammasigmaepsilon.org).

**Special admission requirements**: The admission standards for all students pursuing degrees in chemistry and those interested in pre-professional areas of emphasis offered by the department are: mathematics ACT ≥ 22, English ACT ≥ 18 and reading ACT ≥ 20 (or their equivalencies), or successful completion of appropriate developmental courses. Transfer students must meet these requirements before declaring a chemistry major as well. There are also requirements for registering for “CHE 120: General Chemistry I.” The prerequisite is high school chemistry and one of the following: 1) a minimum score of 22 on the ACT mathematics section or equivalent, 2) a B- or better in “CHE 102: Introduction to Chemistry,” or 3) satisfactory performance on the department’s placement exam. Students should contact the department to schedule a challenge test if they had high school chemistry but scored less than 22 on the ACT mathematics section and wish to try to test into this course.

**You should also know**: Many upper-level labs require completion of CHE 391W: Chemical Information and Writing as a prerequisite, so students are encouraged to take this course in their sophomore year. For all major tracks in chemistry, students must take a minimum of 9 hours of chemistry courses at NKU, 1 credit hour of which must be “CHE 400: Chemistry Seminar.”

**Chemistry Majors**

**Bachelor of Science with a major in Chemistry**  
Students who aspire to careers as professional chemists should seek to obtain the Bachelor of Science. Students must complete the core courses listed below plus one of the three tracks:  
- General Chemistry Track (ACS Certified)  
- Biochemistry Track  
- Forensics Track

Students majoring in chemistry are urged to participate in independent research (CHE 292 or CHE 492) and are also encouraged to take at least one year of a foreign language and additional mathematics coursework beyond the required Calculus II. A student completing the Bachelor of Science in chemistry is not required to complete a minor or a focus.

The general chemistry track is certified by the American Chemical Society, as it meets certain requirements prescribed by that organization. Students may also receive ACS certification in the other Bachelor of Science tracks by selecting appropriate course options as indicated below.

**Degree Requirements: B.S. – Chemistry**

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 125</td>
<td>Introduction to Chemistry and Biochemistry</td>
</tr>
<tr>
<td>CHE 120/120L</td>
<td>General Chemistry I with Laboratory</td>
</tr>
<tr>
<td>CHE 121/121L</td>
<td>General Chemistry II with Laboratory</td>
</tr>
<tr>
<td>CHE 310/310L</td>
<td>Organic Chemistry I with Laboratory</td>
</tr>
<tr>
<td>CHE 311/311L</td>
<td>Organic Chemistry II with Laboratory</td>
</tr>
<tr>
<td>CHE 340/340L</td>
<td>Analytical Chemistry with Laboratory</td>
</tr>
<tr>
<td>CHE 360</td>
<td>Physical Chemistry I</td>
</tr>
<tr>
<td>CHE 361</td>
<td>Physical Chemistry II</td>
</tr>
<tr>
<td>CHE 362L</td>
<td>Physical Chemistry Laboratory</td>
</tr>
<tr>
<td>CHE 391W</td>
<td>Chemical Information and Writing</td>
</tr>
<tr>
<td>CHE 400</td>
<td>Chemistry Seminar</td>
</tr>
<tr>
<td>CHE 482</td>
<td>Biochemistry I</td>
</tr>
</tbody>
</table>
MAT 129 and MAT 229 Calculus I and II 9
MAT 128, MAT 227, and MAT 228 Calculus A, B, C
PHY 211 General Physics with Laboratory I and II
PHY 213 General Physics with Laboratory I and II
PHY 220 and PHY 222 University Physics with Laboratory I and II

TOTAL CORE CREDITS 54-56

General Chemistry Track (ACS Certified)
The general chemistry track (ACS Certified) is designed to offer students a rigorous background in chemistry that will prepare them for careers in industrial chemistry and for graduate work in chemistry. With the addition of one year of biology (BIO 150/150L and 151/151L), this track is also well suited for those students who wish to further education in professional school (medical, dental, veterinary, pharmacy, etc.).

General Chemistry Track Credits
CHE 320/320L Inorganic Chemistry with Laboratory 5
CHE 350/350L Instrumental Analysis with Laboratory 5
Advanced content coursework - select at least 3 credit hours from the following:
CHE 410 Spectrometric Identification of Compounds
CHE 440 Environmental Chemistry
CHE 450 Advanced Chemical Analysis
CHE 460/460L Molecular Spectroscopy with Laboratory
CHE 483 Biochemistry II
CHE 511 Natural and Medicinal Product Synthesis
CHE 512 Physical Organic Chemistry
CHE 560 Quantum Mechanics

Advanced research methods coursework - select at least 3 credit hours from the following:
CHE 392 Advanced Laboratory Projects
CHE 482L Biochemistry I Laboratory
CHE 483L Biochemistry II Laboratory
CHE 492 Research: Chemistry
CHE 505 The History of Chemistry

TOTAL TRACK CREDITS 16

BIO 400/400L Advanced Molecular Biology with Laboratory 7-9
CHE 320/320L Inorganic Chemistry with Laboratory
CHE 350/350L Instrumental Analysis with Laboratory

TOTAL TRACK CREDITS 24-26

Forensics Track
The forensics track is designed for students who wish to pursue a career in forensic science with a solid background in chemistry while gaining the basic knowledge needed to succeed in the criminal justice system. While a minor or focus is not required with this track, it is strongly recommended that majors in this track complete the minor in criminalistics offered by the Department of Political Science, Criminal Justice, and Organizational Leadership. By doing so, students will be much better prepared to work with law enforcement professionals. Due to the complexity of this program, it is critical that students work closely with their advisor throughout their NKU academic career.

NOTE: To receive ACS certification, CHE 320-320L must also be taken as one course in this distribution area.

Forensic Track Credits
CHE 482L Biochemistry I Laboratory 1
BIO 150/150L Introduction to Biology I with Laboratory 4
BIO 151/151L Introduction to Biology II with Laboratory 4
BIO 349/349L Genetics with Laboratory 4
BIO 400/400L Advanced Molecular Biology with Laboratory 4
STA 205 Introduction to Statistical Methods 3
JUS 101 Introduction to Criminal Justice 3
JUS 204 Criminal Investigation 3

Select at least one course from the following:
BIO 495 Scanning Electron Microscopy
CHE 350/350L Instrumental Analysis with Laboratory 3-5

TOTAL TRACK CREDITS 29-31

Bachelor of Arts with a major in Chemistry
This degree is designed for those students who are interested in teaching chemistry at the high school level or for those students who will graduate with two majors. Students completing the Bachelor of Arts in chemistry are required to complete a minor or a focus if they have just one major.

Degree Requirements: B.A. – Chemistry

Courses Credits
CHE 125 Introduction to Chemistry and Biochemistry 1
CHE 120/120L General Chemistry I with Laboratory 4
CHE 121/121L General Chemistry II with Laboratory 4
CHE 310/310L Organic Chemistry I with Laboratory 4
CHE 311/311L Organic Chemistry II with Laboratory 4
CHE 340/340L Analytical Chemistry with Laboratory 5
CHE 360 Physical Chemistry I 3
CHE 361 Physical Chemistry II 3
CHE 362L Physical Chemistry Laboratory 3
CHE 391W Chemical Information and Writing 3
CHE 400 Chemistry Seminar 1

At least 3 additional credit hours of allowed 300-level or above chemistry courses 3
MAT 129 and MAT 229  
Calculus I  
Calculus II  
-- OR --  
MAT 128, MAT 227, and MAT 228  
Calculus A  
Calculus B  
Calculus C  

| PHY 211 and PHY 213  
| General Physics with Laboratory I and II  
| -- OR --  
| PHY 220 and PHY 222  
| University Physics with Laboratory I AND II  

TOTAL CREDITS 54-56

Secondary Chemical Education

Students interested in a career as a high school chemistry teacher should receive a bachelor’s degree in chemistry (any track) and complete the secondary education requirements as prescribed by the Department of Teacher Education. Students are encouraged to work closely with advisors in both departments to ensure that all requirements are met in a timely fashion.

Chemistry Minor

Minor in Chemistry

The minor in chemistry requires 8 hours of general chemistry (CHE 120, CHE 120L, CHE 121, and CHE 121L) plus an additional 12 credit hours of 300/400/500-level chemistry courses (independent study and research coursework do not count toward the minor). Students must take at least 4 of the 12 300/400/500-level hours at NKU and earn a GPA of at least 2.0 in all chemistry courses.
Department of English

Location: Landrum Academic Center 500
Telephone: 859-572-5416
Fax: 859-572-6993
Email Address: english@nku.edu
Web Address: http://english.nku.edu
Department Chair: Emily Detmer-Goebel

Other Key Personnel:
Academic Advisor: Megan LaDow
Writing Instruction Program Director: Jennifer Cellio
Graduate Program Director: John Alberti
Creative Writing Coordinator: Andrew Miller
Cinema Studies Director: John Alberti
Department Coordinator: Julie Hess
Department Secretary: Ann Harding

Full-Time Faculty: John Alberti, Janel Bloch, Nancy Bowers, Thomas Bowers, Jennifer Cellio, Jonathan S. Cullick, Emily Detmer-Goebel, Donelle Dreese, Andrea Gazzaniga, Steven J. Gores, Barclay Green, Jessica Hindman, Parmita Kapadia, Roxanne Kent-Drury, Nancy Kersell, Tonya Krouse, Andrew P. Miller, Kelly Moffett, Tamara F. O’Callaghan, Robert T. Rhode, Danielle Roemer, Chenliang Sheng, Ernest Smith, Paige Byam Soliday, Robert K. Wallace, Gary Walton, Chris Wilkey, Kristine A. Yohe

Undergraduate Programs:

Majors:
- Bachelor of Arts
- English
- English with secondary teaching certification

Minors:
- Cinema Studies (see interdisciplinary section of catalog)
- Creative Writing
- English
- Professional Writing

Thinking about the discipline: English programs promote critical, creative, and reflective expression in the English language. Students in the English program engage with diverse literary texts and cultural texts, and they learn and practice critical reading and effective writing. In addition to these skills, students seeking secondary teaching certification in English learn and practice the most up-to-date pedagogical theories and methods.

The skills that English majors develop in research, communication, comprehension, and analysis prepare them for careers in a multitude of fields in the private and public sectors such as government, law, education, business, and nonprofits. NKU’s English program emphasizes written communication skills, intellectual development, and humanistic values, which enable students to identify and pursue personal, career, and civic goals.

What can someone do with an English degree? In today’s ever-changing and dynamic modern economy, graduates need a diverse set of skills and experiences, a flexible and adaptable outlook, and the ability to think creatively, all of which of the major which provides. The major in English helps prepare students for careers in many professional areas, including business, law, government, public relations, and teaching.

Special opportunities for our students: Sigma Tau Delta is an international English honor society for students with exemplary academic achievement in their major. English majors are selected for membership on the basis of total credit hours of university work, number of hours of work completed in English, and GPA in English classes.

The department offers a variety of scholarships and awards including: Stallings English Scholarship; Eric Meyer Poetry Scholarship; R.M. Miller endowed award for outstanding fiction writing; Barbara M. Collier Memorial endowed award; Byron award; Thad Lindsey Award; Lindsey book awards; Lindsey leadership award; Judith Blackburn Award; and the writing instruction program awards. Information about selection criteria and applications can be found on the English department website (http://arts.nku.edu/departments/english.html).

The English department has four publications that provide publishing opportunities for students: (1) Loch Norse Magazine is Northern Kentucky University’s student literary magazine. Loch Norse Magazine publishes exclusively student poems, short stories, one-act plays, and excerpts from longer works of fiction (novella and novel); (2) The Licking River Review is Northern Kentucky University’s annual literary and art magazine. The Licking River Review’s purpose is to showcase the best literary and art works submitted each year by NKU students, alumni, and emerging or established writers; (3) The result of collaboration between departments in the sciences and the Department of English, Norse Scientist is an annual journal of student science writing edited and produced by students; and (4) WORD is the Department of English’s public newsletter and literary magazine. While the majority of the articles are written by faculty, students often serve as editorial assistants for WORD and may contribute their writing.

Special graduation requirements: To graduate, a student must earn a grade of C or higher in every course used to fulfill the major or minor requirements in English, including courses used to fulfill the foreign language requirement. All English Majors are required to demonstrate (1) intermediate-level proficiency in a foreign language previously spoken or used to satisfy the NKU entrance requirement or (2) novice-level proficiency in a second foreign language. Students can demonstrate intermediate-level proficiency by either completing the appropriate 200-level course in the language studied in high school or by attaining an acceptable score on the CLEP test in that language. Students can demonstrate novice-level proficiency by completing two semesters of a language not previously studied or spoken.

English Majors

Bachelor of Arts with a major in English

The Bachelor of Arts is conferred upon students completing a major in English. The English major consists of a minimum of 42 credit hours, including 18 credit hours from the core courses plus 24 credit hours in one of the three program tracks: literature, writing studies, or creative writing.

Degree Requirements: B.A. – English

<table>
<thead>
<tr>
<th>Core Courses in English</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 250 Introduction to English Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two survey sequences from the following:

British
- ENG 202 Survey of British Literature I
- ENG 203 Survey of British Literature II
- OR

American
- ENG 208 Survey of American Literature I
- ENG 209 Survey of American Literature II
- OR
- ENG 217 African-American Literature to 1940
Select 15 credit hours from the following:

**ENG 351** Rhetorical Theories and Writing Practices

Writing Studies Track

18 credit hours of writing studies courses, which emphasize content areas with the word **WRITING STUDIES.** Students choosing this track will choose writing studies courses are designated in course descriptions in the catalog with the word **WRITING STUDIES.**

The major in English with emphasis on literature introduces students to texts from all periods of English and American literary history and prepares students to understand the relation of these works to the time in which they were written and to the present day.

**Literature Track**

<table>
<thead>
<tr>
<th>Literature Track</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 350 Critical Theory</td>
<td>3</td>
</tr>
<tr>
<td>Pre-1800 Traditions*</td>
<td>3</td>
</tr>
<tr>
<td>Pre-1900 Traditions*</td>
<td>3</td>
</tr>
<tr>
<td>Post 1900 Traditions*</td>
<td>3</td>
</tr>
<tr>
<td>Genres**</td>
<td>3</td>
</tr>
<tr>
<td>Identities***</td>
<td>3</td>
</tr>
<tr>
<td>Select two 300/400/500-level ENG courses</td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL TRACK CREDITS</strong></td>
<td><strong>24</strong></td>
</tr>
<tr>
<td><strong>Total Core Credits</strong></td>
<td><strong>18</strong></td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>42</strong></td>
</tr>
</tbody>
</table>

* Traditions courses are designated in course descriptions in the catalog with the word TRADITIONS. This category focuses on periods, texts, and approaches that are central to the conventional canon of literature in English, and it emphasizes the centrality of historical periods of literature to English studies today. Students are encouraged to use these courses to familiarize themselves with advanced study of national traditions in literature, including British and American.

** Genres courses are designated in course descriptions in the catalog with the word GENRES. This category focuses on approaches to literature through an analysis of genre (including the novel, poetry, drama, film, etc.).

*** Identities courses are designated in course descriptions in the catalog with the word IDENTITIES. This category focuses on literary and theoretical texts that examine regional, immigrant, cultural, postcolonial, gender, sexual, class, or disabled identities.

**Writing Studies Track**

Writing Studies courses are designated in course descriptions in the catalog with the words WRITING STUDIES. Students choosing this track will choose 18 credit hours of writing studies courses, which emphasize content areas such as rhetorical techniques in writing, professional writing, and editing.

<table>
<thead>
<tr>
<th>Writing Studies Track</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 31 Rhetorical Theories and Writing Practices</td>
<td>3</td>
</tr>
<tr>
<td>Select 15 credit hours from the following:</td>
<td></td>
</tr>
<tr>
<td>ENG 331</td>
<td>Persuasive Writing</td>
</tr>
<tr>
<td>ENG 338</td>
<td>Writing for Social Change</td>
</tr>
<tr>
<td>ENG 340</td>
<td>Business Writing</td>
</tr>
<tr>
<td>ENG 347</td>
<td>Technical Writing</td>
</tr>
<tr>
<td>ENG 348</td>
<td>Professional Editing in the Workplace</td>
</tr>
<tr>
<td>ENG 349</td>
<td>Web Writing for the Professions</td>
</tr>
<tr>
<td>ENG 371</td>
<td>Traditional Grammar</td>
</tr>
<tr>
<td>ENG 381</td>
<td>Introduction to Linguistics</td>
</tr>
<tr>
<td>ENG 496</td>
<td>Internship</td>
</tr>
</tbody>
</table>

**Creative Writing Track**

Creative writing courses are designated in the catalog with the words CREATIVE WRITING. Students choosing this track will complete 15 credit hours in 300/400-level creative writing courses across at least two of the following genres: fiction writing, poetry writing, nonfiction writing, and dramatic writing. “ENG 231, Introduction to Creative Writing,” is a prerequisite to 300-level or above creative writing courses.

<table>
<thead>
<tr>
<th>Creative Writing Track</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one course from Genres, Identities or Post-1900 Traditions</td>
<td>3</td>
</tr>
<tr>
<td>Select two creative writing courses from the following:</td>
<td></td>
</tr>
<tr>
<td>ENG 332</td>
<td>Fiction Writing</td>
</tr>
<tr>
<td>ENG 334</td>
<td>Poetry Writing</td>
</tr>
<tr>
<td>ENG 336</td>
<td>Creative Nonfiction Writing</td>
</tr>
<tr>
<td>Select 9 credit hours of creative writing courses in at least two genres at the 300/400 level:</td>
<td></td>
</tr>
<tr>
<td>Fiction Writing</td>
<td></td>
</tr>
<tr>
<td>ENG 332</td>
<td>Fiction Writing</td>
</tr>
<tr>
<td>ENG 432 and</td>
<td>Novel Writing I and II</td>
</tr>
<tr>
<td>ENG 433</td>
<td></td>
</tr>
<tr>
<td>Poetry Writing</td>
<td></td>
</tr>
<tr>
<td>ENG 334</td>
<td>Poetry Writing</td>
</tr>
<tr>
<td>ENG 430</td>
<td>Advanced Poetry Writing</td>
</tr>
<tr>
<td>Nonfiction Writing</td>
<td></td>
</tr>
<tr>
<td>ENG 336</td>
<td>Creative Nonfiction Writing</td>
</tr>
<tr>
<td>ENG 357</td>
<td>Biographical Writing</td>
</tr>
<tr>
<td>Dramatic Writing</td>
<td></td>
</tr>
<tr>
<td>ENG 358</td>
<td>Writing in Creative Genres</td>
</tr>
<tr>
<td>ENG 431</td>
<td>Screenwriting</td>
</tr>
<tr>
<td>Select two 300/400/500-level ENG courses</td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL OPTION CREDITS</strong></td>
<td><strong>24</strong></td>
</tr>
<tr>
<td><strong>Total Core Credits</strong></td>
<td><strong>18</strong></td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>42</strong></td>
</tr>
</tbody>
</table>

**Bachelor of Arts with a major in English and Secondary Teaching Certification**

The major in English with secondary teaching certification is offered for students who wish to be certified for teaching at the high- or middle-school level. The major consists of 45 credit hours, plus completion of the foreign-language requirement. Students pursuing a major in English with secondary education certification should review the portion of this catalog relating to education and health/physical education. Upon deciding to pursue the teacher education program, students must schedule an appointment with the certification specialist in the College of Education and Human Services and with an advisor in English in the Department of English. Students seeking certification to teach English must also take “EDU 530: Reading in Junior and Senior High School” and requirements for English, education, and general education. They do not need a minor or focus.
Degree Requirements: B. A. – English and Secondary Certification

Core Courses in English

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 200</td>
<td>3</td>
</tr>
<tr>
<td>ENG 202 and ENG 203</td>
<td>6</td>
</tr>
<tr>
<td>ENG 206</td>
<td>Western World Literature I -- OR --</td>
</tr>
<tr>
<td>ENG 207</td>
<td>Western World Literature II 3</td>
</tr>
<tr>
<td>ENG 308</td>
<td>Shakespeare I -- OR --</td>
</tr>
<tr>
<td>ENG 309</td>
<td>Shakespeare II 3</td>
</tr>
<tr>
<td>ENG 381</td>
<td>Introduction to Linguistics -- OR --</td>
</tr>
<tr>
<td>ENG 382</td>
<td>History of the English Language 3</td>
</tr>
<tr>
<td>ENG 385</td>
<td>Teaching of English I 3</td>
</tr>
<tr>
<td>ENG 387</td>
<td>Teaching of English II 3</td>
</tr>
</tbody>
</table>

Total Core Credits 24

Select one British literature course designated as Pre-1700 Traditions 3

Select one British literature course designated as Pre-1800 or Post-1900 Traditions 3

Select two courses in American literature 6

Select three ENG electives 9

TOTAL TRACK CREDITS 21

Total Core Credits 24

TOTAL CREDITS 45

English Minors

Minor in English
The minor in English consists of at least 21 credit hours, excluding “ENG 101: College Writing” and “ENG 291: Advanced College Writing.”

Requirements for Minor: English

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 202</td>
<td>Survey of British Literature I</td>
</tr>
<tr>
<td>ENG 203</td>
<td>Survey of British Literature II</td>
</tr>
<tr>
<td>ENG 208</td>
<td>Survey of American Literature I</td>
</tr>
<tr>
<td>ENG 209</td>
<td>Survey of American Literature I</td>
</tr>
<tr>
<td>ENG 217</td>
<td>African American Literature to 1940 6</td>
</tr>
<tr>
<td>ENG 204</td>
<td>Introduction to Writing Studies</td>
</tr>
<tr>
<td>ENG 205</td>
<td>Contemporary Issues in Writing Studies</td>
</tr>
<tr>
<td>ENG 231</td>
<td>Introduction to Creative Writing</td>
</tr>
</tbody>
</table>

Select five ENG electives (at least 9 credit hours must be 300 and 400 level) 15

TOTAL CREDITS 21

Minor in Creative Writing
The minor in creative writing consists of at least 21 credit hours, not including “ENG 101: College Writing” and “ENG 291: Advanced College Writing.”

Requirements for Minor: Creative Writing

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 231</td>
<td>Introduction to Creative Writing 3</td>
</tr>
<tr>
<td>ENG 332</td>
<td>Fiction Writing 3</td>
</tr>
<tr>
<td>ENG 334</td>
<td>Poetry Writing 3</td>
</tr>
<tr>
<td>ENG 336</td>
<td>Creative Nonfiction Writing 3</td>
</tr>
</tbody>
</table>

Select 9 credit hours from the following:

- ENG 340 Business Writing
- ENG 347 Technical Writing
- ENG 358 Writing in Creative Genres
- ENG 331 Persuasive Writing
- ENG 431 Screenwriting
- ENG 432 Novel Writing 9
- ENG 433 Novel Writing II
- ENG 497 Projects: Writing
- JOU 220 News Writing
- JOU 340 Feature Writing
- ENG 348 Professional Editing in the Workplace
- JOU 346 Copy Editing and Design

TOTAL CREDITS 21

Minor in Professional Writing
The professional writing minor consists of at least 21 credit hours, not including “ENG 101: College Writing” or “ENG 291: Advanced College Writing.”

Requirements for Minor: Professional Writing

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 340</td>
<td>Business Writing -- OR --</td>
</tr>
<tr>
<td>ENG 347</td>
<td>Technical Writing</td>
</tr>
<tr>
<td>ENG 348</td>
<td>Professional Editing in the Workplace 3</td>
</tr>
<tr>
<td>ENG 349</td>
<td>Web Writing for the Professions 3</td>
</tr>
<tr>
<td>INF 101</td>
<td>Computer Literacy and Informatics -- OR --</td>
</tr>
<tr>
<td>JOU 321</td>
<td>Digital Publishing 3</td>
</tr>
</tbody>
</table>

Select 9 credit hours from the following:

- ENG 204 Introduction to Writing Studies
- ENG 205 Contemporary Issues in Writing Studies
- ENG 340 Business Writing -- OR --
- ENG 347 Technical Writing whichever not taken to fulfill the above requirement 9
- ENG 371 Traditional Grammar
- ENG 231 Introduction to Creative Writing
- ENG 345 Legal Writing
- ENG 359 Writing in Workplace Genres
- ENG 331 Persuasive Writing
- ENG 431 Screenwriting
- ENG 497 Projects: Writing

TOTAL CREDITS 21
Department of History and Geography

Location: Landrum Academic Center 415  
Telephone: 859-572-5461  
Fax: 859-572-6088  
Email Address: hisgeo1@nku.edu  
Web Address: http://hisgeo.nku.edu  
Department Chair: William Landon  
Other Key Personnel:  
- Academic Advisor: Megan LaDow  
- Freshman Specialist: Bonnie May  
- Director of Black Studies: Eric Jackson  
- Director of Geography: John Metz  
- Director of Medieval and Renaissance Studies: William Landon  
- Director of Public History: Brian Hackett  
- Director of Women’s and Gender Studies: Debra Meyers  
- Center for Public History: Janice Rachford  
- Department Coordinator: Lou Stuntz  
- Secretary: Lou Stuntz

Full-Time Faculty: Rebecca Bailey, Connie Bruins, Mary Bucklin, Tripta Desai, Brian Hackett, Michael Hinckley, Eric Jackson, William Landon, François LeRoy, Joe Lombardi, Bonnie May, Carol Medicott, John Metz, Debra Meyers, Burke Miller, Kathleen Quinn, Jonathan Reynolds, Sunhee Sang, Meredith Smith, Paul Tenkotte, Kristopher Teters, Sharon Vance, Michael Washington, Andrea Watkins, Robert Wilcox

Undergraduate Programs:

Majors:  
- Bachelor of Arts  
- Geography  
- History  
- Social Studies for Secondary Education

Minors:  
- Geography  
- History  
- Military History

Interdisciplinary Programs:  
(see interdisciplinary section of catalog)  
- Black Studies  
- Medieval and Renaissance Studies  
- Women’s and Gender Studies

Certification: Geographic Information Systems (see interdisciplinary programs)

Focus:  
- Women’s and Gender Studies (see interdisciplinary programs)

Thinking about the discipline: The Department of History and Geography provides two essential major fields of study that give us a better understanding of the world in which we live.

History provides an insight into significant events that shaped society and had a lasting impact on the human condition. The study of history provides a solid foundation for careers in education, government, law, museums and historical societies, and business.

Geography is a social science dealing with the impact people have on the world’s environment. It is a liberal arts degree that can open the door to careers in public agencies, planning agencies, public health, and geographic information systems. NKU graduates have entered advanced studies in park management, urban planning, meteorology, and medicine.

Special opportunities for our students: History and geography majors serve as interns at more than three dozen agencies, archives, historical societies, museums, and state and national parks. Many of the opportunities are offered through the auspices of the Center for Public History at NKU. Departmental interns work with faculty in coordinating the annual Northern Kentucky History Day, in communications and technology, and in various community projects. See the department chair for further information.

Student organizations include Geography Education Organization for Students and Alpha Beta Phi chapter of Phi Alpha Theta International History Honor Society. GEOS sponsors field trips, social activities, and research/service opportunities. NKU’s chapter of Phi Alpha Theta, named best chapter in the United States for 20 years, holds many educational and social activities and publishes an annual journal titled Perspectives in History.

Annual student awards include the W. Frank Steely Award, the Outstanding Graduate Award in Geography, the Jeffrey A. Smith Memorial Award, the H. Lew Wallace Award, and the Leon Boothe Community Service Award.

You should also know: Students can complete a minor or focus in history in a fully online format. For more information, contact Educational Outreach.

History and Geography Majors

Bachelor of Arts with a major in History  
Available in both traditional and fully-online formats.

To graduate with a Bachelor of Arts in history, a student must have earned 42 credit hours (with a C or above in each course counting toward the major). These 42 credit hours consist of 21 core requirement hours and 21 300-level or above credit hours. Before declaring a major in history, a student must complete two foundational courses. These are "HIS 102: History of the United States through 1877" and "HIS 103: History of the United States since 1877" (one of these will count toward the culture and creativity category of NKU’s Foundation of Knowledge program). All students majoring in history are required to participate in outcomes assessment, as stipulated in instructions provided to graduating seniors each semester.

Degree Requirements: B.A. – History

<table>
<thead>
<tr>
<th>Course</th>
<th>Pre-Major Credits</th>
<th>History Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 102</td>
<td>History of the United States through 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIS 103</td>
<td>History of the United States since 1877*</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Pre-Major Credits</strong></td>
<td><strong>6</strong></td>
<td></td>
</tr>
</tbody>
</table>

Courses in History

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 100</td>
<td>History of Europe to 1500</td>
</tr>
<tr>
<td>HIS 101</td>
<td>History of Europe since 1500</td>
</tr>
<tr>
<td>HIS 106</td>
<td>History of African Americans to 1877</td>
</tr>
<tr>
<td>HIS 107</td>
<td>History of African Americans since 1877</td>
</tr>
<tr>
<td>HIS 108</td>
<td>World History to 1500</td>
</tr>
<tr>
<td>HIS 109</td>
<td>World History since 1500</td>
</tr>
<tr>
<td>HIS 389</td>
<td>Historical Research and Writing</td>
</tr>
<tr>
<td>HIS 489</td>
<td>Senior Seminar</td>
</tr>
<tr>
<td><strong>Total History Credits</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

Electives 300 level or above

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one 300/400-level United States history course*</td>
<td>3</td>
</tr>
<tr>
<td>Select one 300/400-level European history course*</td>
<td>3</td>
</tr>
<tr>
<td>Select one 300/400-level Non-western history course*</td>
<td>3</td>
</tr>
<tr>
<td>Select one Race/gender history course*</td>
<td>3</td>
</tr>
<tr>
<td>Select two 300/400/500-level HIS courses *</td>
<td>6</td>
</tr>
<tr>
<td>Select one 300/400/500-level GEO course*</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Elective Credits</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>
Bachelor of Arts with a major in Geography

To graduate with a Bachelor of Arts in geography, a student must complete 40 credit hours of geography courses, consisting of 25 core requirement credit hours and 15 300-level or higher credit hours. Before declaring a major in geography, a student must complete a foundational course, "GEO 100: Global Viewpoints on Geography and the Human Landscape" (counts as the student’s general education global viewpoints course). All students majoring in geography are required to participate in outcomes assessment. Information on the nature of assessment and a calendar of dates for submission of materials are available from the program coordinator.

Degree Requirements: B.A. – Geography

Courses for Pre-Major

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 100</td>
<td>3</td>
</tr>
<tr>
<td>GEO 101</td>
<td>3</td>
</tr>
<tr>
<td>GEO 108</td>
<td>3</td>
</tr>
<tr>
<td>GEO 314</td>
<td>3</td>
</tr>
<tr>
<td>GEO 389</td>
<td>3</td>
</tr>
<tr>
<td>GEO 489</td>
<td>3</td>
</tr>
<tr>
<td>GEO 301</td>
<td></td>
</tr>
<tr>
<td>GEO 306</td>
<td>3</td>
</tr>
<tr>
<td>GEO 502</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Pre-Major Credits 3

Courses in Geography

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 100</td>
<td>3</td>
</tr>
<tr>
<td>GEO 101</td>
<td>3</td>
</tr>
<tr>
<td>GEO 108</td>
<td>3</td>
</tr>
<tr>
<td>GEO 314</td>
<td>3</td>
</tr>
<tr>
<td>GEO 389</td>
<td>3</td>
</tr>
<tr>
<td>GEO 489</td>
<td>3</td>
</tr>
<tr>
<td>GEO 301</td>
<td></td>
</tr>
<tr>
<td>GEO 306</td>
<td>3</td>
</tr>
<tr>
<td>GEO 502</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Geography Credits 25

Electives 300 level or above

Select five 300/400/500-level GEO courses 15

Total Credits 43

Bachelor of Arts with a Secondary Education Certification in Social Studies

Students pursuing social studies certification for secondary education should review the portion of the undergraduate catalog relating to secondary education program requirements. Upon deciding to pursue the teacher education program, students must schedule an appointment with the certification specialist in the College of Education and Human Services. To complete degree requirements, students must satisfy social studies, education, and general education requirements. An overall GPA of 2.5 is required for admission and retention of students in the social studies program. Students must meet with their social studies secondary education advisor in the history and geography department to register for their 57 credit hours of social studies content classes, as outlined below. For core courses in education, students must meet separately with their advisor in the College of Education and Human Services.

Degree Requirements: B.A. – Secondary Education Certification in Social Studies

Courses in History and Geography

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 100</td>
<td>3</td>
</tr>
<tr>
<td>HIS 100</td>
<td>3</td>
</tr>
<tr>
<td>HIS 101</td>
<td>3</td>
</tr>
<tr>
<td>HIS 102</td>
<td>3</td>
</tr>
<tr>
<td>HIS 103</td>
<td>3</td>
</tr>
<tr>
<td>HIS 108</td>
<td>3</td>
</tr>
<tr>
<td>HIS 109</td>
<td>3</td>
</tr>
<tr>
<td>HIS 389</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two 300/400/500-level HIS courses 6

Credits in History and Geography 30

Courses in Other Disciplines

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 100</td>
<td>3</td>
</tr>
<tr>
<td>ECO 205</td>
<td>3</td>
</tr>
<tr>
<td>PSC 100</td>
<td>3</td>
</tr>
<tr>
<td>PSC 102</td>
<td>3</td>
</tr>
<tr>
<td>PSY 100</td>
<td>3</td>
</tr>
<tr>
<td>SOC 100</td>
<td>3</td>
</tr>
<tr>
<td>EDU 304</td>
<td>3</td>
</tr>
<tr>
<td>EDU 530</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three 300/400/500-level courses in any of the social studies disciplines other than history 9

Credits in Other Disciplines 30

Total Credits 60

History and Geography Minors

Minor in History

Available in both traditional and fully-online formats.

The minor in history consists of 21 credit hours. Only history courses in which a student earns a C or better will count toward a history minor.

For more information on the fully-online format, contact Educational Outreach.

Requirements for Minor: History Credits

Select one pair of courses from the following:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 100</td>
<td>3</td>
</tr>
<tr>
<td>HIS 101</td>
<td>3</td>
</tr>
<tr>
<td>HIS 102</td>
<td>3</td>
</tr>
<tr>
<td>HIS 103</td>
<td>3</td>
</tr>
<tr>
<td>HIS 108</td>
<td>3</td>
</tr>
<tr>
<td>HIS 109</td>
<td>3</td>
</tr>
<tr>
<td>HIS 389</td>
<td>3</td>
</tr>
</tbody>
</table>

Select five 200/300/400/500-level HIS courses 15

Total Credits 21

Minor in Geography

Requirements for Minor: Geography Credits

Select three courses from the following:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 100</td>
<td>3</td>
</tr>
<tr>
<td>GEO 301</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three courses from the following:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 301</td>
<td>3</td>
</tr>
</tbody>
</table>

Select five 200/300/400/500-level GEO courses 15

Total Credits 21
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 302</td>
<td>Cultural Geography</td>
</tr>
<tr>
<td>GEO 303</td>
<td>Economic Geography</td>
</tr>
<tr>
<td>GEO 304</td>
<td>Political Geography and Geopolitics</td>
</tr>
<tr>
<td>GEO 306</td>
<td>Environmental Resource Management</td>
</tr>
<tr>
<td>GEO 308</td>
<td>Dynamics of Weather and Climate</td>
</tr>
<tr>
<td>GEO 309</td>
<td>Historical Geography of the United States</td>
</tr>
<tr>
<td>GEO 310</td>
<td>Geography of Population</td>
</tr>
<tr>
<td>GEO 314</td>
<td>Maps and Map Interpretation</td>
</tr>
<tr>
<td>GEO 335</td>
<td>Geography through Film, Art, and Literature</td>
</tr>
<tr>
<td>GEO 340</td>
<td>Sustainable Food Systems</td>
</tr>
<tr>
<td>GEO 341</td>
<td>Cartography</td>
</tr>
<tr>
<td>GEO 415</td>
<td>Geographic Information Systems</td>
</tr>
<tr>
<td>GEO 419</td>
<td>Remote Sensing of the Environment</td>
</tr>
<tr>
<td>GEO 502</td>
<td>Geography of Kentucky</td>
</tr>
<tr>
<td>GEO 507</td>
<td>Local Community: Geographic Analysis</td>
</tr>
<tr>
<td>GEO 518</td>
<td>Geographic Information Analysis</td>
</tr>
<tr>
<td>GEO 519</td>
<td>Advanced Remote Sensing</td>
</tr>
<tr>
<td>GEO 520</td>
<td>Environmental Resources for Teachers</td>
</tr>
<tr>
<td>GEO 522</td>
<td>Introduction to Historic Preservation</td>
</tr>
<tr>
<td>GEO 540</td>
<td>Cultural Geography of Asia</td>
</tr>
<tr>
<td>GEO 552</td>
<td>Spatial Data Bases</td>
</tr>
</tbody>
</table>

Select two GEO electives | 6
Select one 200/300/400/500-level GEO elective | 3

**TOTAL CREDITS 21**

**Minor in Military History**

A minor in military history offers a diverse range of courses to students who are interested in war and peace. It consists of 21 credit hours.

**Requirements for Minor: Military History**

Select seven courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 311</td>
<td>Independence and Constitution 1763-1789</td>
</tr>
<tr>
<td>HIS 365</td>
<td>European Military History: Ancient World to the Renaissance</td>
</tr>
<tr>
<td>HIS 366</td>
<td>European Military History: Renaissance to the Modern World</td>
</tr>
<tr>
<td>HIS 409</td>
<td>The French Revolution</td>
</tr>
<tr>
<td>HIS 413</td>
<td>History of Nazi Germany</td>
</tr>
<tr>
<td>HIS 414</td>
<td>The Holocaust</td>
</tr>
<tr>
<td>HIS 417</td>
<td>Civil War and Reconstruction, 1860-1877</td>
</tr>
<tr>
<td>HIS 423</td>
<td>Diplomacy and Foreign Policy of the United States</td>
</tr>
<tr>
<td>HIS 473</td>
<td>Battles and Behavior I: 1066-1836</td>
</tr>
<tr>
<td>HIS 475</td>
<td>The First World War</td>
</tr>
<tr>
<td>HIS 476</td>
<td>The Second World War</td>
</tr>
<tr>
<td>HIS 512</td>
<td>History of Arab Israeli Conflict</td>
</tr>
<tr>
<td>HIS 533</td>
<td>Causes of the Civil War</td>
</tr>
<tr>
<td>HIS 535</td>
<td>Civil War and Reconstruction</td>
</tr>
<tr>
<td>HIS 565</td>
<td>The Vietnam War</td>
</tr>
<tr>
<td>HIS 570</td>
<td>The Cold War</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 21**
Department of Mathematics and Statistics

Location: Mathematics-Education-Psychology Center 401
Telephone: 859-572-5377
Fax: 859-572-6097
Email Address: math@nku.edu
Web Address: http://math.nku.edu
Department Chair: Roger Zarnowski

Other Key Personnel:
Department Coordinator: Suzanne Ritchie

Full-Time Faculty: David Agard, Brooke Buckley, Chris Christensen, Daniel Curtin, Mary Lee Glore, Theodore Hodgson, Lisa Holden, Dhanuja Kasturiratna, Donald Krug, Mark Langcaster, Andrew Long, Gail Mackin, Philip McCartney, Carl Miller, Teri Murphy, Stephen Newman, Bethany Noblett, Joseph Nolan, Mel Peterson, John Rankin, Patricia Sisson, Michael Waters, Steven Wilkinson, Jacqueline Wroughton

Undergraduate Programs:

 Majors:
 Bachelor of Science in Mathematics
 Applied Mathematics Track
 General Mathematics Track
 General Mathematics Track leading to Secondary Teaching Certification
 Pure Mathematics Track

 Bachelor of Science in Statistics
 Actuarial Sciences Track
 Applied Statistics Track
 Theoretical Statistics Track

 Minors:
 Applied Statistics
 Mathematics

 Supported Major:
 Middle Grades Education with Mathematics Content Focus

Thinking about the discipline: Mathematics and statistics are about finding patterns in quantitative information and using those patterns to solve problems and predict future trends. Having a good understanding of mathematics and statistics prepares students for careers in a variety of fields where good problem-solving skills are required. In lists of the best jobs, publications like The Wall Street Journal and Forbes routinely rank mathematicians, actuaries, and related fields in the top 10.

Special opportunities for our students: Mathematics and statistics students have a variety of opportunities, both curricular and extracurricular, to explore and practice their chosen discipline.

- All students take a 1-credit-hour mathematical sciences seminar course early in their major to discover the possibilities in the disciplines, both while at NKU and after graduating.
- A number of students participate in annual national and international competitions like the Virginia Tech exam and the Putnam exam, which are timed exams of challenging mathematical problems, or the COMAP competition where over one weekend teams of students tackle a large problem that requires them to synthesize and use a number of the mathematical and statistical tools along with the problem-solving skills they have learned.
- The Mathematics and Statistics Club is a student organization that provides both social and informational opportunities for the majors.
- Students can work in the department’s Burkardt Consulting Center where they analyze real-world problems for clients from both the university and the community.
- Students can work on research projects, either one on one with a faculty mentor or by taking the mathematical sciences capstone course. They can attend regional and national meetings to present the results of their research. Financial awards are available for some of these student research activities.
- There are a number of merit-based scholarships available to mathematics and statistics students.

Special admission requirements: Students who plan to undertake studies in a mathematical science will need a background in mathematics equivalent to four years of high school that includes algebra I and II, geometry, and trigonometry. An ACT mathematics score of 25 or an SAT mathematics score of at least 570 indicates mastery at a level ready to begin the core courses in the department majors. Deficiencies in a student’s background can be remedied in courses taught at NKU. Placement into the appropriate course is based on the student’s ACT mathematics score or SAT mathematics score and in some cases a placement exam administered at NKU.

You should also know:
- At least 6 credit hours toward the minor must be completed at NKU.
- A grade below a C- is not applicable to either major.
- At least 9 credit hours toward the major must be completed at NKU.
- A double major in mathematics and statistics consists of satisfying the degree requirements of both majors with a minimum of 58 credit hours of courses applicable to either major.
- A student majoring in mathematics and seeking a focus in statistics must complete four additional 300- or 400-level STA courses not used to satisfy the mathematics major.
- A student majoring in statistics seeking a focus in mathematics must complete four additional 300- or 400-level MAT courses not used to satisfy the statistics major.
- Any substitutions in these programs must be made in consultation with the chair of the department.

Mathematics and Statistics Majors

Bachelor of Science with a major in Mathematics
A major in mathematics can lead to a variety of careers including mathematical and scientific research in areas as different as national security and petroleum exploration; in several business fields such as insurance, banking, and finance; and in professions such as law, teaching, and medicine. The study of mathematics builds a way of thinking that is used to solve a variety of problems that arise in different contexts. That ability to solve problems makes mathematicians a valuable commodity in many occupations. The department offers a Bachelor of Science in mathematics with three tracks. While all mathematics majors complete a common core of courses that ensures the student has a broad knowledge of mathematics, students can follow their interests by choosing from one of three required tracks:
- Pure mathematics designed for those who plan to pursue graduate studies.
- Applied mathematics for those who want to pair mathematics with interests in business, the natural sciences, or the social sciences.
- General mathematics for anyone who wants a comprehensive introduction to mathematics, including those who plan to teach in secondary schools.
### Degree Requirements: B.S. – Mathematics

#### Core Courses in Mathematics and Statistics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 129</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>MAT 229</td>
<td>Calculus II</td>
<td></td>
</tr>
<tr>
<td>MAT 128</td>
<td>Calculus A</td>
<td></td>
</tr>
<tr>
<td>MAT 227</td>
<td>Calculus B</td>
<td></td>
</tr>
<tr>
<td>MAT 228</td>
<td>Calculus C</td>
<td></td>
</tr>
<tr>
<td>MAT 329</td>
<td>Calculus III</td>
<td></td>
</tr>
<tr>
<td>MAT 194</td>
<td>Mathematical Sciences Seminar</td>
<td>1</td>
</tr>
<tr>
<td>MAT 234</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>STA 250</td>
<td>Probability and Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 497</td>
<td>Mathematical Sciences Capstone</td>
<td></td>
</tr>
<tr>
<td>MAT 491</td>
<td>Mathematics Honors Research Project</td>
<td>3</td>
</tr>
</tbody>
</table>

**Core Credits in Mathematics and Statistics: 23 credits**

#### Core Courses in Other Disciplines

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 270</td>
<td>Mathematics Software Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSC 260</td>
<td>Object-Oriented Programming I</td>
<td></td>
</tr>
</tbody>
</table>

**Core Credits in Other Disciplines: 3 credits**

**Total Core Credits: 26 credits**

#### Pure Mathematics Track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 302</td>
<td>Introduction to Higher Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MAT 310</td>
<td>Elementary Theory of Numbers</td>
<td>3</td>
</tr>
<tr>
<td>MAT 410</td>
<td>Abstract Algebra I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 420</td>
<td>Real Variables I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 430</td>
<td>Complex Variables</td>
<td></td>
</tr>
</tbody>
</table>

Select 9 additional credit hours of MAT/STA courses at the 300 level or above including at least two 400-level courses, but excluding MAT/STA 490 and 491. **Total Track Credits: 18 credits**

#### Applied Mathematics Track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 325</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MAT 330</td>
<td>Classical Applied Analysis</td>
<td>6</td>
</tr>
<tr>
<td>MAT 360</td>
<td>Numerical Analysis</td>
<td></td>
</tr>
<tr>
<td>MAT 375</td>
<td>Applied Mathematical Models</td>
<td></td>
</tr>
</tbody>
</table>

Select 9 additional credit hours of MAT/STA courses at the 300 level or above, excluding MAT/STA 490 and 491. **Total Track Credits: 18 credits**

#### General Mathematics Track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 302</td>
<td>Introduction to Higher Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MAT 345</td>
<td>Introduction to Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MAT 310</td>
<td>Elementary Theory of Numbers</td>
<td>3</td>
</tr>
<tr>
<td>MAT 410</td>
<td>Abstract Algebra I</td>
<td></td>
</tr>
<tr>
<td>STA 341</td>
<td>Statistics II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Core Credits: 26 credits**

**Total Credits: 44 credits**

---

### Teacher Certification for Mathematics

Students wishing to be certified to teach high school mathematics should complete a major in mathematics and the general mathematics track. These students should also review the relevant sections of the catalog information for the Department of Teacher Education.

Students seeking certification to teach mathematics in grades 5 through 9 should refer to the catalog information for the Department of Teacher Education. The mathematics and statistics requirements listed there for the mathematics track of the B.A. in Middle Grades Education may also be fulfilled by completing the requirements for a mathematics major with the general mathematics track, along with MAT 140: Mathematics for Elementary and Middle Grades Teachers, and MAT 240: Geometry for Middle School Teachers.

### Bachelor of Science with a major in Statistics

Statistics is the science of learning from data, whether those data come from biology, economics, engineering, medicine, public health, psychology, marketing, sports, or education. The major in statistics offers students the breadth and depth of knowledge necessary to attain various career objectives in many different fields. The department offers a Bachelor of Science in statistics consisting of a 22-credit-hour core along with a minimum of 18 credit hours of MAT/STA electives. The electives may be chosen from courses at the 300 level or above (or MAT 234) with at least 9 of these credit hours being STA courses. Although students have freedom in choosing these elective courses, it is recommended that each student choose one of the sets that have been specially designed for particular areas of emphasis. These areas are applied statistics, theoretical statistics, and actuarial sciences.

### Degree Requirements: B.S. – Statistics

#### Core Courses in Mathematics and Statistics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 129</td>
<td>Calculus I</td>
<td>9</td>
</tr>
<tr>
<td>MAT 229</td>
<td>Calculus II</td>
<td>9</td>
</tr>
<tr>
<td>MAT 128</td>
<td>Calculus A</td>
<td>3</td>
</tr>
<tr>
<td>MAT 227</td>
<td>Calculus B</td>
<td>3</td>
</tr>
<tr>
<td>MAT 228</td>
<td>Calculus C</td>
<td>3</td>
</tr>
<tr>
<td>MAT 194</td>
<td>Mathematical Sciences Seminar</td>
<td>1</td>
</tr>
<tr>
<td>STA 250</td>
<td>Probability and Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>STA 314</td>
<td>Design and Analysis of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>STA 341</td>
<td>Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>STA 360</td>
<td>Statistical Computing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Core Credits: 22 credits**

**Total Credits: 45 credits**
The applied statistics set of electives is designed for those who plan to seek employment in industry as a practicing statistician in positions such as a data analyst or statistical consultant.

### Applied Statistics Area Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 312: Elementary Survey Sampling</td>
<td>3</td>
</tr>
<tr>
<td>STA 316: Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>STA 317: Introduction to Time Series Analysis</td>
<td>3</td>
</tr>
<tr>
<td>STA 370: Introduction to Statistical Consulting</td>
<td>3</td>
</tr>
<tr>
<td>STA 419: Applied Multivariate Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MAT 234: Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Select 3 additional credit hours of MAT/STA courses at the 300 level or above</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL AREA ELECTIVE CREDITS**: 18

**Total Core Credits**: 22

**TOTAL CREDITS**: 40

The theoretical statistics set of electives is designed for those who plan to pursue graduate studies in statistics.

### Theoretical Statistics Area Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 234: Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MAT 329: Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>STA 340: Probability II</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 additional semester hours of STA courses at the 300 level or above and 3 additional credit hours of MAT/STA courses at the 300 level or above.</td>
<td>9</td>
</tr>
</tbody>
</table>

**TOTAL AREA ELECTIVE CREDITS**: 19

**Total Core Credits**: 22

**TOTAL CREDITS**: 41

The actuarial sciences set of electives is designed for those who plan to enter the actuarial field and need a solid theoretical background along with specialized courses to prepare for success on the actuarial examinations.

### Actuarial Sciences Area Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 234: Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>STA 317: Introduction to Time Series Analysis</td>
<td>3</td>
</tr>
<tr>
<td>STA 329: Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>STA 340: Probability II</td>
<td>3</td>
</tr>
<tr>
<td>STA 450: Introduction to Actuarial Science</td>
<td>3</td>
</tr>
<tr>
<td>Select 3 additional semester hours of MAT/STA courses at the 300 level or above</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL AREA ELECTIVE CREDITS**: 19

**Total Core Credits**: 22

**TOTAL CREDITS**: 41

### Mathematics and Statistics Minors

#### Mathematics Minor

The minor in mathematics requires 21 credit hours and a GPA of at least a 2.0 and C- in classes relating to the minor. It is not open to students majoring in either mathematics or statistics.

**Requirements for Minor: Mathematics**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 129 and</td>
<td></td>
</tr>
<tr>
<td>MAT 229: Calculus II</td>
<td></td>
</tr>
<tr>
<td>MAT 128 and</td>
<td>9</td>
</tr>
<tr>
<td>MAT 227 and</td>
<td></td>
</tr>
<tr>
<td>MAT 228: Calculus C</td>
<td></td>
</tr>
<tr>
<td>MAT 234: Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Select 9 additional credit hours of MAT courses at the 300 level or above. (May substitute no more than two of STA 250, CSC 270, MAT 119.)</td>
<td>9</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS**: 21

#### Applied Statistics Minor

The minor in applied statistics requires 21-22 credit hours and a GPA of at least a 2.0 and C- in classes relating to the minor. It is not open to students majoring in either mathematics or statistics.

**Requirements for Minor: Applied Statistics**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 213: Statistics for Business Applications II</td>
<td>3</td>
</tr>
<tr>
<td>STA 250: Probability and Statistics I</td>
<td></td>
</tr>
<tr>
<td>STA 314: Design and Analysis of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>STA 316: Regression Analysis</td>
<td></td>
</tr>
<tr>
<td>Select 6 additional credit hours of MAT or STA courses at the 200 level or above. (May substitute MAT 128 and/or an approved statistical methodology course from major discipline.)</td>
<td>6</td>
</tr>
<tr>
<td>Select 6 additional credit hours of STA courses at the 300 level or above.</td>
<td>6</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS**: 21-22
Department of Music

Location: Fine Arts Center 253
Telephone: 859-572-6399
Fax: 859-572-6076
Email Address: music@nku.edu
Web Address: http://music.nku.edu
Department Chair: Kurt Sander

Other Key Personnel:
Assistant Chair: William Hogg
Academic Advisor: Joan Brummer
Greaves Concert Hall Coordinator: Jonathan Eaton
Director of Preparatory Department: Holly Attar

Full-Time Faculty: Katie Barton, Diana Belland, David Dunevant, Amy Gillingham, Kimberly Gelbwasser, William Hogg, Brant Karrick, Ingrid Keller, Eric Knechtges, Karen Koner, Scott Lang, Randy Pennington, Frank Restesan, Raquel Rodriguez, Kurt Sander, Jason Vest, John Zappa

Undergraduate Programs:
Majors:
- Bachelor of Music
- Composition
- Performance
- Instrumental Track
- Jazz Studies Track
- Keyboard Track
- Piano Pedagogy Track
- Vocal Track

Bachelor of Music Education
Choral/Vocal Track
Instrumental Track
Bachelor of Arts
Music
Audio Production Track
Entrepreneurship Track
Liberal Studies Track
Music Technology Track

Minor:
Music

Certificate:
Piano Pedagogy

All degrees and certificates offered by the Department of Music are fully accredited by the National Association of Schools of Music.

Thinking about the discipline: Students with degrees in music have a wide range of opportunities available in the workforce as public or private school teachers, independent studio educators, liturgical music directors, composers, producers, conductors, and performers. Other opportunities also exist in arts administration, marketing, or promotion. Some students opt to continue their studies at the graduate level for careers as university professors, researchers, and nonprofit administrators. Occasionally students will earn their degree in music and opt to pursue additional study in law or medicine.

Special opportunities for our students: Music students are offered a variety of special opportunities tied to groups and opportunities beyond the campus borders.

National Association for Music Education: The mission of the National Association for Music Education is to advance music education by encouraging the study and making of music by all. Students can join NAfME to acquire a connection to the professional world of music education and to gain an increased understanding of the role of NAfME in the field of music teaching.

Phi Mu Alpha Sinfonia: The primary purpose of this fraternity is to encourage and promote the highest standards of creativity, performance, education, and research in music in America. Membership is open to any male student in good academic standing or faculty/staff member at NKU who works to advance the cause of music in America.

Sigma Alpha Iota: Sigma Alpha Iota is an international fraternity for women in music. Members include undergraduates and graduates in music, alumnae, professional musicians, and outstanding music patrons. In addition to personal encouragement and support, members may receive scholarships, loans, and awards in many areas and at all levels of music-related study.

Special admission requirements: Any student wishing to declare a major in music must complete a successful entrance audition in his or her major applied area to be accepted into the Department of Music.

To be admitted into the music education program, a student must have achieved a 21 composite on the ACT or 1470 combined (three parts) on the SAT.

Entering freshmen and transfer students are required to take placement examinations in music theory and piano. Transfer students must also take a music history examination if deemed appropriate by the department chair.

Information regarding auditions and placement tests may be found on the web (http://music.nku.edu).

You should also know:

Academic standards: Candidates for degrees in music are required to receive a grade of C (not C-) or better in all music courses applied toward the major or minor and to maintain a GPA of 2.50 in music courses.

Applied music requirements: All students majoring or minoring in music and majoring in musical theatre studying applied voice must perform before a panel of faculty members at the end of each semester. At this time, their grade for that semester and the approval or disapproval to register for the next-higher level of study will be decided. At the end of four semesters of applied study, students must pass the sophomore comprehensive jury to qualify for 300/400-level study. If the four semesters are not completed consecutively, students must secure written permission from the appropriate faculty and the music chair to delay the examination. Students not approved in the sophomore comprehensive jury must petition to retake the examination. The sophomore comprehensive jury may be taken three times only and will be heard by at least three music faculty members who, by a majority vote, will grade the performance as pass or fail. A summary of the faculty vote is recorded and filed in students’ permanent folders.

Applied music instruction: Individual instruction for qualified students is available in wind, brass, percussion, string instruments, organ, piano, voice, guitar, harp, and harpsichord. Private lessons are provided weekly for a half-hour or one hour. Students studying privately may earn one or 2 credit hours. The number of credit hours is determined by the length of the lesson (one-half hour = 1 semester hour; one hour = 2 credit hours). Students will be assigned to applied lesson instructors by the music chair or area coordinator. Students who have not passed their sophomore comprehensive jury may not register for 300- or 400-level applied courses. Requests for a specific instructor will be honored when possible.

Per-semester fees: For applied music and composition, the semester fee is $150 for a half-hour lesson per week and $300 for a one-hour lesson per week. A $55 music fee is also assessed to help cover program expenses.
including staff accompanists, instrument maintenance, and other costs associated with applied lessons.

Performance organizations: Membership in performance organizations is open to all qualified NKU students. Ensembles include Northern Chorale, Chamber Choir, Vocal Jazz, University Concert Band, Symphonic Winds, Jazz Ensemble, Pep Band, NKU Philharmonic, Chamber Orchestra, Percussion Ensemble and Steel Drum Band. Opportunities for performance in chamber ensembles and the opera workshop are also available. Interested students should call the music office to arrange an audition. Large-ensemble requirements pertaining to curricula for music majors are satisfied only by Symphonic Winds, University Concert Band, Northern Chorale, Chamber Choir, Chamber Orchestra, and NKU Philharmonic.

Recital attendance requirement: All students majoring in music, unless excused by the chair, must successfully complete 7 semesters of MUS 196: Recital Review. Requirements for this course are satisfied by certified attendance at recitals approved and required by the course syllabus; grading is pass/fail.

Recital performance: Students majoring in music performance must perform two major recitals, a junior (half) recital and a senior (full) recital. Students majoring in music education perform a junior recital prior to graduation. Students preparing junior and senior recitals must pass a recital jury audition at least one month prior to public performance. Students majoring in music composition must prepare a junior recital consisting of at least 30 minutes of their own music. Students majoring in music education must perform a junior recital prior to their clinical experience semester. Guidelines for the preparation and scheduling of recitals are available from the music office.

Scholarships: Music scholarships are awarded to students who have made outstanding accomplishments or evidence significant potential. Students should contact the music office for audition dates. Applied music juries at the end of fall semester serve as an evaluation and re-audition for continuing scholarship students.

Advising: All students majoring or minoring in music will be assigned to a faculty advisor or will advise with the program advisor. Students are urged to work in consultation with the advisor in order to ensure proper selection and sequencing of courses.

Special instructional programs: The preparatory division offers private instruction in many instruments and voice to students below college age, university students who are not majoring or minoring in music, and adult students. Interested students should contact the music office prior to the start of each semester or summer school for information.

Music Majors

Bachelor of Music – Performance
The Bachelor of Music in performance is designed for students who wish to pursue professional careers in the performing arts or related fields. Acceptance into this program is selective and is based on an audition on the student’s primary instrument. Students in this program must complete the 51-credit-hour core plus one of the tracks or emphases listed below.

Degree Requirements: B.M. – Performance

<table>
<thead>
<tr>
<th>Core Courses in Music</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 127 Aural Skills IV</td>
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<td>MUS 224 Aural Skills V</td>
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<td>MUS 225 Aural Skills VI</td>
<td>.5</td>
</tr>
<tr>
<td>MUS 226 Aural Skills VII</td>
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<tr>
<td>MUS 227 Aural Skills VIII</td>
<td>.5</td>
</tr>
<tr>
<td>MUS 140 Class Piano I</td>
<td>.5</td>
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<tr>
<td>MUS 141 Class Piano II</td>
<td>.5</td>
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<tr>
<td>MUS 142 Class Piano III</td>
<td>.5</td>
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<tr>
<td>MUS 143 Class Piano IV</td>
<td>.5</td>
</tr>
<tr>
<td>MUS 261 Class Piano V</td>
<td>.5</td>
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<tr>
<td>MUS 262 Class Piano VI</td>
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<tr>
<td>MUS 263 Class Piano VII</td>
<td>.5</td>
</tr>
<tr>
<td>MUS 264 Class Piano VIII</td>
<td>.5</td>
</tr>
<tr>
<td>MUS 196 Recital Review (must pass at least seven semesters)</td>
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</tr>
<tr>
<td>MUS 197 Freshman Proficiency Jury</td>
<td>0</td>
</tr>
<tr>
<td>MUS 230 History of Music I: Antiquity through Early Baroque</td>
<td>3</td>
</tr>
<tr>
<td>MUS 231 History of Music II: Late Baroque to Mid 19th Century</td>
<td>3</td>
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<tr>
<td>MUS 337 History of Music III: Mid 19th and 20th Centuries</td>
<td>3</td>
</tr>
<tr>
<td>MUS 297 Sophomore Comprehensive Jury</td>
<td>0</td>
</tr>
<tr>
<td>MUS 312 Computer Applications for Musicians</td>
<td>1</td>
</tr>
<tr>
<td>MUS 325 Form and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUS 352 Conducting I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 397 Junior Recital</td>
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<td>MUS 497 Senior Recital</td>
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<tr>
<td>Applied music (primary instrument or voice)</td>
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**TOTAL CORE CREDITS** 51

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<thead>
<tr>
<th>Instrumental Track</th>
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<tr>
<td>MUS 334 Chamber Music Literature</td>
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<td>MUS 335 Symphonic Literature</td>
<td></td>
</tr>
<tr>
<td>Large ensembles</td>
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</tr>
<tr>
<td>Small ensembles</td>
<td>6</td>
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<tr>
<td>Electives in music</td>
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**TOTAL TRACK CREDITS** 29

**Total Core Credits** 51

**TOTAL CREDITS** 80

<table>
<thead>
<tr>
<th>Jazz Studies Track</th>
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<td>MUS 235 Group Jazz Piano I</td>
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<td>MUS 236 Group Jazz Piano II</td>
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</tr>
<tr>
<td>MUS 237 Jazz Improvisation I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 238 Jazz Improvisation II</td>
<td>2</td>
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<tr>
<td>Large ensembles</td>
<td>2</td>
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<tr>
<td>MUS 306 Vocal Jazz Ensemble</td>
<td>4</td>
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<tr>
<td>MUS 317 Jazz Ensemble</td>
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<td>MUS 307 Jazz Combo</td>
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<tr>
<td>MUS 321 Jazz Ensemble</td>
<td>2</td>
</tr>
<tr>
<td>MUS 322 Jazz Improvisation II</td>
<td>2</td>
</tr>
<tr>
<td>MUS 323 Jazz Theory</td>
<td>2</td>
</tr>
<tr>
<td>MUS 339 History of Jazz</td>
<td>3</td>
</tr>
<tr>
<td>MUS 424 Jazz Pedagogy</td>
<td>2</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 80
### Bachelor of Music in Music Education

The Bachelor of Music in music education is a comprehensive, professional degree program that prepares students for careers in teaching K-12 music in public and private schools. Students complete the core and may select one of three tracks: choral/vocal, instrumental, or piano/choral based on their applied background and their teaching interests. Applicants must be accepted through audition and have achieved a 21 or higher on their ACT examination or a minimum 1470 combined score on the SAT examination.

Students pursuing a Bachelor of Music with teacher certification should review that portion of the university catalog relating to teacher education. Upon approval to pursue the music teacher education program, students must schedule an appointment with the certification specialist in the College of Education and Human Services. Music students should follow the guidelines for certification listed under “Secondary Education.”

Candidates for certification must meet the Kentucky Department of Education certification requirements in both general and professional education. Students wishing to be certified in a state other than Kentucky are responsible for knowing and meeting the certification requirements of that state. Each student should work in close consultation with an advisor in order to meet all non-music requirements. All degree emphases in music education are exempt from the requirement to complete a minor or focus.

### Degree Requirements: B.M. – Music Education

<table>
<thead>
<tr>
<th>Electives in music</th>
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</thead>
<tbody>
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<td>TOTAL TRACK CREDITS</td>
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<td>Total Core Credits</td>
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<tr>
<td>TOTAL CREDITS</td>
<td>89</td>
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</tbody>
</table>

Core courses “MUS 230: History of Music I: Antiquity through Early Baroque” and “MUS 325: Form and Analysis” are not required for this track.

Core courses “MUS 230: History of Music I: Antiquity through Early Baroque” and “MUS 325: Form and Analysis” are not required for this track.

### Keyboard Track

- **MUS 311** Accompanying Skills 4
- **MUS 331** Keyboard Literature I 2
- **MUS 348** Piano Pedagogy I 3
- **MUS 349** Piano Pedagogy II 3
- Small ensembles 6
- Large ensembles 2
- Electives in music 9

| TOTAL TRACK CREDITS | 29 |
| Total Core Credits | 51 |
| TOTAL CREDITS | 80 |

### Piano Pedagogy Track

- **MUS 311** Accompanying Skills 2
- **MUS 331** Keyboard Literature I 2
- **MUS 332** Keyboard Literature II 2
- **MUS 348** Piano Pedagogy I 3
- **MUS 349** Piano Pedagogy II 3
- **MUS 448** Piano Pedagogy III 3
- **MUS 449** Piano Pedagogy IV 3
- Small ensembles 6
- Large ensembles 2
- Electives in music 5

| TOTAL TRACK CREDITS | 31 |
| Total Core Credits | 51 |
| TOTAL CREDITS | 82 |

### Vocal Track

- **Two years of foreign language** selected in consultation with an applied voice teacher 12
- **MUS 301** The Northern Chorale — OR — 6
- **MUS 302** Chamber Choir
- **MUS 304** Opera Workshop — OR — 3
- **MUS 310** Chamber Music Ensembles
- **MUS 354** Lyric Diction I 1
- **MUS 355** Lyric Diction II 1
- **MUS 333** Vocal Literature 3
- **MUS 446** Vocal Pedagogy 2
- **MUS 185** Applied Piano (taken after proficiency) 2
- **MUS 285** Applied Piano (taken after proficiency) 2
- Electives in music 5

| TOTAL TRACK CREDITS | 37 |
| Total Core Credits | 51 |
| TOTAL CREDITS | 88 |

### Core Courses in Music

| **MUS 122** Music Theory I | 3 |
| **MUS 123** Music Theory II | 3 |
| **MUS 222** Music Theory III | 3 |
| **MUS 223** Music Theory IV | 3 |
| **MUS 124** Aural Skills I | .5 |
| **MUS 125** Aural Skills II | .5 |
| **MUS 126** Aural Skills III | .5 |
| **MUS 127** Aural Skills IV | .5 |
| **MUS 224** Aural Skills V | .5 |
| **MUS 225** Aural Skills VI | .5 |
| **MUS 226** Aural Skills VII | .5 |
| **MUS 227** Aural Skills VIII | .5 |
| **MUS 140** Class Piano I | .5 |
| **MUS 141** Class Piano II | .5 |
| **MUS 142** Class Piano III | .5 |
| **MUS 143** Class Piano IV | .5 |
| **MUS 261** Class Piano V | .5 |
| **MUS 262** Class Piano VI | .5 |
| **MUS 263** Class Piano VII | .5 |
| **MUS 264** Class Piano VIII | .5 |
| **MUS 130** Introduction to Music Literature | 2 |
| **MUS 196** Recital Review (must pass at least seven semesters) | 0 |
| **MUS 197** Freshman Proficiency Jury | 0 |
| **MUS 230** History of Music I: Antiquity through Early Baroque | 3 |
| **MUS 231** History of Music II: Late Baroque to Mid-19th Century | 3 |
| **MUS 337** History of Music III: Mid 19th and 20th Centuries | 3 |
| **MUS 297** Sophomore Comprehensive Jury | 0 |
| **MUS 104** Orientation to Music Education | 1 |
| **MUS 309** Introduction to Music Education | 2 |
| **MUS 312** Computer Applications for Musicians | 1 |
| **MUS 325** Form and Analysis | 3 |
| **MUS 340** General and Vocal Music P-8 | 3 |
### Bachelor of Music: Composition

The Bachelor of Music in composition is for talented students wishing to pursue a career as a composer/arranger or who wish to continue musical study in composition, theory, or musicology at the graduate level. Students are admitted into the composition program based on an audition on their primary instrument and a portfolio review of their compositions.

#### Degree Requirements: B.M. – Composition

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 122 Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 123 Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 222 Music Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUS 223 Music Theory IV</td>
<td>3</td>
</tr>
<tr>
<td>MUS 124 Aural Skills I</td>
<td>5</td>
</tr>
<tr>
<td>MUS 125 Aural Skills II</td>
<td>5</td>
</tr>
<tr>
<td>MUS 126 Aural Skills III</td>
<td>5</td>
</tr>
<tr>
<td>MUS 127 Aural Skills IV</td>
<td>5</td>
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<tr>
<td>MUS 128 Aural Skills V</td>
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<tr>
<td>MUS 129 Aural Skills VI</td>
<td>5</td>
</tr>
<tr>
<td>MUS 130 Aural Skills VII</td>
<td>5</td>
</tr>
<tr>
<td>MUS 131 Aural Skills VIII</td>
<td>5</td>
</tr>
<tr>
<td>MUS 140 Class Piano I</td>
<td>5</td>
</tr>
<tr>
<td>MUS 141 Class Piano II</td>
<td>5</td>
</tr>
<tr>
<td>MUS 142 Class Piano III</td>
<td>5</td>
</tr>
<tr>
<td>MUS 143 Class Piano IV</td>
<td>5</td>
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<tr>
<td>MUS 261 Class Piano V</td>
<td>5</td>
</tr>
<tr>
<td>MUS 262 Class Piano VI</td>
<td>5</td>
</tr>
<tr>
<td>MUS 263 Class Piano VII</td>
<td>5</td>
</tr>
<tr>
<td>MUS 264 Class Piano VIII</td>
<td>5</td>
</tr>
<tr>
<td>MUS 196 Recital Review (must pass at least seven semesters)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 197 Freshman Proficiency Jury</td>
<td>0</td>
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<tr>
<td>MUS 230 History of Music I: Antiquity through Early Baroque</td>
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<td>MUS 231 History of Music II: Late Baroque to Mid-19th Century</td>
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<td>MUS 337 History of Music III: Mid 19th and 20th Centuries</td>
<td>3</td>
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<tr>
<td>MUS 296 Piano Proficiency</td>
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<td>MUS 297 Sophomore Comprehensive Jury</td>
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<td>MUS 312 Computer Applications for Musicians</td>
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<tr>
<td>MUS 313 Advanced Electronic and Computer Music Techniques</td>
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<tr>
<td>MUS 324 Orchestration I</td>
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<td>MUS 325 Form and Analysis</td>
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<td>MUS 326 Materials and Techniques of Music Composition</td>
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<tr>
<td>MUS 327 Counterpoint</td>
<td>3</td>
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<tr>
<td>MUS 352 Conducting I</td>
<td>2</td>
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<tr>
<td>MUS 387 Junior Recital</td>
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<tr>
<td>Applied composition</td>
<td>12</td>
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<td>Applied music (major instrument or voice)</td>
<td>8</td>
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<tr>
<td>Applied piano or secondary instrument (piano required for non-piano majors)</td>
<td>4</td>
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<tr>
<td>Large ensembles</td>
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<td>Small ensembles</td>
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<tr>
<td>Electives in music (must have advisor’s approval)</td>
<td>6</td>
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</table>

**TOTAL CREDITS**: 84
Bachelor of Arts with a major in Music

The Bachelor of Arts in music is a liberal arts degree designed for students who wish to develop their musical talents while acquiring a well-rounded education in other academic areas. Three tracks are offered for the student who wishes to combine musical study with a secondary area in audio production, music technology, or entrepreneurship. Students may enroll in the liberal studies track to combine musical study with a focus in business, psychology, mathematics, history, anthropology, and other fields to create a curriculum tailored to their academic and career interests.

Degree Requirements: B.A. – Music

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUS 122 Music Theory I</td>
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<tr>
<td>MUS 123 Music Theory II</td>
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<tr>
<td>MUS 222 Music Theory III</td>
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<td>MUS 223 Music Theory IV</td>
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<tr>
<td>MUS 24 Aural Skills I</td>
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<td>MUS 26 Aural Skills III</td>
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<td>MUS 264 Class Piano VIII</td>
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<tr>
<td>MUS 196 Recital Review (must pass at least seven semesters)</td>
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<td>MUS 197 Freshman Proficiency Jury</td>
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<tr>
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<td>MUS 201 Sophomore Comprehensive Jury</td>
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<td>MUS 321 Computer Applications for Musicians</td>
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<td>MUS 496 Senior Capstone</td>
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<td>Applied music (major instrument)</td>
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<td>Electives in music (must have advisor’s approval)</td>
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<tr>
<td>Ensembles</td>
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**Total Credits 59**

Audio Production Track

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<th>Courses</th>
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<tr>
<td>EMB 140 Introduction to Media Aesthetics</td>
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<tr>
<td>MUS 350 Music Technology I</td>
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<tr>
<td>MUS 356 Mixing Techniques I</td>
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<td>MUS 357 Mixing Techniques II</td>
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<tr>
<td>MUS 358 Commercial Music Production I</td>
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<td>MUS 359 Commercial Music Production II</td>
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<tr>
<td>MUS 361 Advanced Music Production</td>
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**Total Track Credits 21**

**Total Core Credits 59**

**Total Credits 80**

Entrepreneurship Track

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<tr>
<td>ENTP 150 Overview of Accounting</td>
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<td>ENTP 201 Principles of Entrepreneurship</td>
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<td>ENTP 310 Enterprise Creation</td>
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<td>ENTP 375 Marketing Strategies for Entrepreneurial Businesses</td>
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<td>ENTP 499 Independent Study</td>
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<td>ENTP elective</td>
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**Total Track Credits 21**

**Total Core Credits 59**

**Total Credits 80**

The audio production track is exempt from the university’s requirement to complete a minor or focus.

Liberal Studies Track

<table>
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<td>Electives</td>
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**Total Track Credits 21**

**Total Core Credits 59**

**Total Credits 80**

The entrepreneurship track is exempt from the university’s requirement to complete a minor or focus.

Music Technology Track

<table>
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<tr>
<td>EMB 140 Introduction to Media Aesthetics</td>
<td>3</td>
</tr>
<tr>
<td>EMB 215 Introduction to Audio Production</td>
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<tr>
<td>MUS 350 Music Technology I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 351 Music Technology II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 358 Commercial Music Production I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 360 Composition for Commercial Media</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Track Credits 21**

**Total Core Credits 59**

**Total Credits 80**

The music technology track is exempt from the university’s requirement to complete a minor or focus.

Music Minor

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 122 Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 123 Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 124 Aural Skills I</td>
<td>.5</td>
</tr>
<tr>
<td>MUS 125 Aural Skills II</td>
<td>.5</td>
</tr>
<tr>
<td>MUS 126 Aural Skills III</td>
<td>.5</td>
</tr>
<tr>
<td>MUS 127 Aural Skills IV</td>
<td>.5</td>
</tr>
<tr>
<td>Select two courses from the following:</td>
<td></td>
</tr>
<tr>
<td>MUS 230 History of Music I: Antiquity through Early Baroque</td>
<td>3</td>
</tr>
<tr>
<td>MUS 231 History of Music II: Late Baroque to Mid-19th Century</td>
<td>3</td>
</tr>
<tr>
<td>MUS 337 History of Music III: Mid 19th and 20th Centuries</td>
<td>3</td>
</tr>
<tr>
<td>Applied music</td>
<td>2</td>
</tr>
<tr>
<td>Electives in music</td>
<td>8</td>
</tr>
</tbody>
</table>

**Total Track Credits 26**
Music Undergraduate Certificate

Certificate in Piano Pedagogy

The certificate in piano pedagogy is a 34-credit-hour program providing pianists with the tools and information necessary to support a career as an independent studio teacher. Credits earned in the certificate count toward a four-year degree program in the Bachelor of Music in performance with an emphasis in piano pedagogy.

### Requirements for Certificate: Piano Pedagogy

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 122</td>
<td>Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 123</td>
<td>Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 124</td>
<td>Aural Skills I</td>
<td>.5</td>
</tr>
<tr>
<td>MUS 125</td>
<td>Aural Skills II</td>
<td>.5</td>
</tr>
<tr>
<td>MUS 126</td>
<td>Aural Skills III</td>
<td>.5</td>
</tr>
<tr>
<td>MUS 127</td>
<td>Aural Skills IV</td>
<td>.5</td>
</tr>
<tr>
<td>MUS 296</td>
<td>Piano Proficiency</td>
<td>0</td>
</tr>
<tr>
<td>MUS 311</td>
<td>Accompanying Skills</td>
<td>2</td>
</tr>
<tr>
<td>MUS 331</td>
<td>Keyboard Literature I</td>
<td>-- OR --</td>
</tr>
<tr>
<td>MUS 332</td>
<td>Keyboard Literature II</td>
<td></td>
</tr>
<tr>
<td>MUS 345</td>
<td>Keyboard Skills I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 346</td>
<td>Keyboard Skills II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 162</td>
<td>Piano Pedagogy I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 163</td>
<td>Piano Pedagogy II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 362</td>
<td>Piano Pedagogy III</td>
<td>3</td>
</tr>
<tr>
<td>MUS 363</td>
<td>Piano Pedagogy IV</td>
<td>3</td>
</tr>
<tr>
<td>MUS 185</td>
<td>Applied Piano</td>
<td>8</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 34
to avoid or minimize the consequences of geologic hazards such as earthquakes, landslides, and volcanoes; how to find and develop the energy and mineral resources necessary for our wellbeing; and how to reduce the environmental impact of our interaction with the Earth. Geology is the study of natural processes that have happened in the past as well as those that are happening today and the application of this knowledge to the betterment of our lives.

**Special opportunities for our students.** Geology students are active with field trips that range from class field trips to the Appalachians to summer field trips to places like Colorado, Utah, and Belize. These field trips are particularly useful for seeing geology that is not available locally. Students are encouraged to participate in research activities and get involved with internships. Research opportunities are available in paleontology, hydrology, geomorphology, engineering geology, and seismology. Students may have the opportunity to get involved with internships at government agencies. Students are encouraged to participate in the geology club.

**You should also know:** A grade of C- or better must be earned in all geology courses counting toward the major. Students interested in the application of geology in environmental studies may take courses emphasizing hydrogeology.

## Geology Majors

### Bachelor of Science with a major in Geology

Students pursuing a career in the field of geology or students planning to attend graduate school — earning either a Master of Science in teaching or in geology — should complete the Bachelor of Science degree. Upon completion of the requirements for a Bachelor of Science degree, students are eligible to take the Geologist Registrants in Training Exam, which is the first requirement toward professional registration. Due to the interdisciplinary nature of this program, a minor is not required for the Bachelor of Science degree in geology.

### Degree Requirements: B.S. — Geology

<table>
<thead>
<tr>
<th>Courses in Geology</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 110</td>
<td>4</td>
</tr>
<tr>
<td>GLY 220</td>
<td>3</td>
</tr>
<tr>
<td>GLY 315</td>
<td>4</td>
</tr>
<tr>
<td>GLY 330</td>
<td>4</td>
</tr>
<tr>
<td>GLY 335</td>
<td>4</td>
</tr>
<tr>
<td>GLY 340</td>
<td>3</td>
</tr>
<tr>
<td>GLY 394</td>
<td>1</td>
</tr>
<tr>
<td>GLY 420</td>
<td>4</td>
</tr>
<tr>
<td>GLY 425</td>
<td>4</td>
</tr>
<tr>
<td>GLY 450</td>
<td>4</td>
</tr>
</tbody>
</table>

Select two GLY courses from the following:

<table>
<thead>
<tr>
<th>Courses in Geology</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 120</td>
<td>This Dangerous Earth</td>
</tr>
<tr>
<td>GLY 150</td>
<td>Introduction to Field Paleontology</td>
</tr>
<tr>
<td>GLY 225</td>
<td>Prehistoric Life</td>
</tr>
<tr>
<td>GLY 230</td>
<td>Geology of National Parks</td>
</tr>
</tbody>
</table>

Select three GLY courses from the following:

<table>
<thead>
<tr>
<th>Courses in Geology</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 350</td>
<td>Field Paleontology</td>
</tr>
<tr>
<td>GLY 360</td>
<td>Introduction to Geophysics</td>
</tr>
<tr>
<td>GLY 402</td>
<td>Invertebrate-Paleontology with Laboratory</td>
</tr>
<tr>
<td>GLY 416</td>
<td>Geologic Field Methods</td>
</tr>
<tr>
<td>GLY 435</td>
<td>Petrology and Petrography</td>
</tr>
<tr>
<td>GLY 440</td>
<td>Applied Geophysics</td>
</tr>
<tr>
<td>GLY 445</td>
<td>Geophysical Modeling</td>
</tr>
</tbody>
</table>
Degree programs in other related areas, including engineering, medicine, physics graduates have chosen to further their education. Recent NKU physics graduates include a third of NKU physics graduates who have chosen to pursue another technical field at the graduate level, or who wish to pursue another technical career in industry. The degree requires 42 credit hours in physics or astronomy courses plus 24 hours additional required courses in related fields. General graduation requirements include 45 hours of 300- or 400-level courses, so students seeking the Bachelor of Arts in geology need to take at least 15 hours of 300- or 400-level courses in addition to the courses required for the degree. Students should choose these courses in consultation with their advisor, but additional elective courses in geology, geography or environmental science are highly recommended.

**Physics Majors**

**Bachelor of Science with a major in Physics**

The Bachelor of Science in physics is designed for those who plan to study physics in graduate school, who wish to pursue another technical field at the graduate level, or who wish to pursue a technical career in industry. The degree requires 42 credit hours in physics or astronomy courses plus 24 hours additional required courses in related fields. General graduation requirements include 45 hours of 300- or 400-level courses, so students seeking the Bachelor of Science in physics need to take at least eight hours of 300- or 400-level courses in addition to the courses required for the degree. Students should choose these courses in consultation with their advisor, but additional elective courses in physics, computer science, or mathematics are highly recommended. A minor in mathematics is recommended for students seeking the Bachelor of Science in physics. This will require 2 3-credit-hour courses beyond those required for the physics degree. Suggested courses include "MAT 330: Classical Applied Analysis," "PHY 330: Mathematical Physics," "MAT 234: Linear Algebra," "MAT 360: Numerical Analysis," and "MAT 430: Complex Variables." The computing course "CSC 270: Mathematics Software Programming" can also be included in a mathematics minor.

**Degree Requirements: B.S. – Physics**

<table>
<thead>
<tr>
<th>Courses in Physics</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 220 University Physics with Laboratory I*</td>
<td>4</td>
</tr>
<tr>
<td>PHY 222 University Physics with Laboratory II*</td>
<td>4</td>
</tr>
<tr>
<td>PHY 224 University Physics with Laboratory III*</td>
<td>4</td>
</tr>
<tr>
<td>PHY 300 Intermediate Physics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHY 301 Advanced Physics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHY 310 Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 360 Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 361 Modern Physics I*</td>
<td>3</td>
</tr>
<tr>
<td>PHY 410 Electromagnetic Theory</td>
<td>4</td>
</tr>
<tr>
<td>PHY 460 Quantum Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 494 Physics Seminar</td>
<td>1</td>
</tr>
<tr>
<td><strong>Select two courses from the following:</strong></td>
<td></td>
</tr>
<tr>
<td>PHY 330 Mathematical Physics</td>
<td></td>
</tr>
<tr>
<td>PHY 420 Modern Physics II</td>
<td>6</td>
</tr>
</tbody>
</table>

**Courses in Other Disciplines**

<table>
<thead>
<tr>
<th>Courses in Other Disciplines</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 120/120L General Chemistry I with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHE 121/121L General Chemistry II with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>MAT 119 Precalculus Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MAT 128 Calculus A</td>
<td>3</td>
</tr>
<tr>
<td>MAT 129 Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>STA 205 Introduction to Statistical Methods</td>
<td>5</td>
</tr>
<tr>
<td>PHY 211 General Physics with Laboratory I</td>
<td>5</td>
</tr>
<tr>
<td>PHY 213 General Physics with Laboratory II</td>
<td>5</td>
</tr>
<tr>
<td><strong>Credits in Other Disciplines</strong></td>
<td><strong>24</strong></td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>74-77</strong></td>
</tr>
</tbody>
</table>

**Bachelor of Arts with a major in Geology**

The Bachelor of Arts in geology is most appropriate for students seeking a dual major who wish to have a background in geology to support another major or for students seeking a degree in secondary education. For students majoring only in geology, this Bachelor of Arts degree requires a minor. The Bachelor of Arts in geology requires 30 hours of geology courses. General graduation requirements include 45 hours of 300- or 400-level courses, so students seeking the Bachelor of Arts in geology need to take at least 15 hours of 300- or 400-level courses in addition to the core courses for the degree. Students should choose these courses in consultation with their advisor, but additional elective courses in geology, geography or environmental science are highly recommended.

**Degree Requirements: B.A. – Geology**

<table>
<thead>
<tr>
<th>Courses in Geology</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 110 The Face of the Earth with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GLY 220 History of the Earth</td>
<td>3</td>
</tr>
<tr>
<td>GLY 330 Geomorphology with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GLY 335 Earth Materials</td>
<td>4</td>
</tr>
<tr>
<td>GLY 425 Economic Geology</td>
<td>4</td>
</tr>
<tr>
<td>Select 11 additional GLY additional hours</td>
<td>11</td>
</tr>
<tr>
<td><strong>Credits in Geology</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

**Physicists**

**Thinking about the discipline:** Physics is the study of matter, energy, and their fundamental interactions. Physics laws govern the dynamics and structure of physical systems (ranging from subatomic particles to the entire universe). Applications of physics have led to the development of new technologies at all levels. The NKU physics program is a vibrant community of faculty and staff whose main objective is to prepare students for a variety of careers in physics and related areas. NKU offers physics majors two degree tracks as well as a pre-engineering dual-degree option. NKU also offers the physics major. People with bachelor’s degrees in physics are often hired for their problem-solving skills, and they find careers in industry, government, and education. Recent NKU physics graduates have worked for companies in telecommunication, manufacturing, engineering, and product research. About a third of NKU physics graduates continue their education after leaving NKU to become research physicists in specialized areas as astrophysics; elementary particles and fields; nuclear physics; atomic, molecular, and optical physics; plasma physics; biophysics; chemical physics; condensed-matter physics; low-temperature physics; and others. Some physics graduates have chosen to further their education by pursuing advanced degree programs in other related areas, including engineering, medicine, mathematics, and computer science. Physicists with the appropriate terminal degree can teach at the secondary or college level.

**Special opportunities for our students:** Undergraduate students (physics majors and other related majors) have the opportunity to participate in research with physics faculty in the department. In recent years, physics faculty have supervised student research in computational physics, optical sciences, material science, geophysics, gravitation and relativity, astrophysics, and particle physics. The physics program has 2,700 square feet of research lab space. This includes a machine shop and six research labs: computational research lab, X-ray diffraction lab, radioisotope lab, material science lab, optical sciences lab, and particle astrophysics lab. In support of research, the physics program is equipped with a computer cluster, a Mossbauer spectrometer, vacuum systems, a modulated differential calorimeter, wide bandwidth digital and analog oscilloscopes, CAMAC data-acquisition equipment, high-speed NIM electronics, air-supported optics tables, UVNIR spectroradiometers, laser Raman spectrometer spin processor for micro-fabrication, pulsed/CW NMR spectrometer, and an X-ray diffractometer. Students are encouraged to become active members of the Physics and Pre-engineering Club, which holds special events such as telescope nights, planetarium shows, and physics demonstration shows.

**Physics Majors**

The Bachelor of Science in physics is designed for those who plan to study physics in graduate school, who wish to pursue another technical field at the graduate level, or who wish to pursue a technical career in industry. The degree requires 42 credit hours in physics or astronomy courses plus 24 hours additional required courses in related fields. General graduation requirements include 45 hours of 300- or 400-level courses, so students seeking the Bachelor of Science in physics need to take at least eight hours of 300- or 400-level courses in addition to the courses required for the degree. Students should choose these courses in consultation with their advisor, but additional elective courses in physics, computer science, or mathematics are highly recommended. A minor in mathematics is recommended for students seeking the Bachelor of Science in physics. This will require 2 3-credit-hour courses beyond those required for the physics degree. Suggested courses include "MAT 330: Classical Applied Analysis," "PHY 330: Mathematical Physics," "MAT 234: Linear Algebra," "MAT 360: Numerical Analysis," and "MAT 430: Complex Variables." The computing course "CSC 270: Mathematics Software Programming" can also be included in a mathematics minor.

**NOTE:** A student successfully completing "MAT 330: Classical Applied Analysis," which is cross-listed as "PHY 330: Mathematical Physics," receives credit toward the physics major and the minor in mathematics.

**Degree Requirements: B.S. – Physics**

<table>
<thead>
<tr>
<th>Courses in Physics</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 220 University Physics with Laboratory I*</td>
<td>4</td>
</tr>
<tr>
<td>PHY 222 University Physics with Laboratory II*</td>
<td>4</td>
</tr>
<tr>
<td>PHY 224 University Physics with Laboratory III*</td>
<td>4</td>
</tr>
<tr>
<td>PHY 300 Intermediate Physics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHY 301 Advanced Physics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHY 310 Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 360 Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 361 Modern Physics I*</td>
<td>3</td>
</tr>
<tr>
<td>PHY 410 Electromagnetic Theory</td>
<td>4</td>
</tr>
<tr>
<td>PHY 460 Quantum Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 494 Physics Seminar</td>
<td>1</td>
</tr>
<tr>
<td><strong>Select two courses from the following:</strong></td>
<td></td>
</tr>
<tr>
<td>PHY 330 Mathematical Physics</td>
<td></td>
</tr>
<tr>
<td>PHY 420 Modern Physics II</td>
<td>6</td>
</tr>
</tbody>
</table>
Bachelor of Arts with a major in Physics

The Bachelor of Arts degree with a major in physics provides a basic core of physics courses and is most appropriate for students pursuing dual majors where the second major may be engineering, mathematics, computer science, or education with an emphasis on physical sciences. The Bachelor of Arts in physics requires 33 credit hours of physics or astronomy courses (plus 24 hours of additional required courses in related fields). General graduation requirements include 45 hours of 300- or 400-level courses, so students seeking the Bachelor of Arts in physics need to take at least 17 hours of 300- or 400-level courses in addition to the courses required for the degree. Students should choose these courses in consultation with their advisor, but additional elective courses in physics, computer science, and mathematics are highly recommended.

Degree Requirements: B.A. – Physics

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 220 University Physics with Laboratory I*</td>
<td>4</td>
</tr>
<tr>
<td>PHY 222 University Physics with Laboratory II *</td>
<td>4</td>
</tr>
<tr>
<td>PHY 224 University Physics with Laboratory III*</td>
<td>4</td>
</tr>
<tr>
<td>PHY 300 Intermediate Physics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHY 310 Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 380 Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 361 Modern Physics I*</td>
<td>3</td>
</tr>
<tr>
<td>PHY 494 Physics Seminar</td>
<td>1</td>
</tr>
<tr>
<td><strong>Select one 300/400-level PHY or AST course</strong></td>
<td>9</td>
</tr>
<tr>
<td><strong>Credits in Physics</strong></td>
<td><strong>42</strong></td>
</tr>
</tbody>
</table>

Courses in Other Disciplines

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 120/120L General Chemistry I with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHE 121/121L General Chemistry II with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>MAT 129 Calculus I***</td>
<td>4</td>
</tr>
<tr>
<td>MAT 229 Calculus II***</td>
<td>5</td>
</tr>
<tr>
<td>MAT 329 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MAT 325 Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>*A C- or better is required to proceed to the next-level physics course.</td>
<td></td>
</tr>
<tr>
<td>**MAT 128: Calculus A, <em>MAT 227: Calculus B,</em> and <em>MAT 228: Calculus C</em> can be taken instead of <em>MAT 129: Calculus I</em> and <em>MAT 229: Calculus II.</em></td>
<td></td>
</tr>
</tbody>
</table>

Bachelor of Arts with a major in Physics

The Bachelor of Arts degree with a major in physics provides a basic core of physics courses and is most appropriate for students pursuing dual majors where the second major may be engineering, mathematics, computer science, or education with an emphasis on physical sciences. The Bachelor of Arts in physics requires 33 credit hours of physics or astronomy courses (plus 24 hours of additional required courses in related fields). General graduation requirements include 45 hours of 300- or 400-level courses, so students seeking the Bachelor of Arts in physics need to take at least 17 hours of 300- or 400-level courses in addition to the courses required for the degree. Students should choose these courses in consultation with their advisor, but additional elective courses in physics, computer science, and mathematics are highly recommended.

Degree Requirements: B.A. – Physics

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 220 University Physics with Laboratory I*</td>
<td>4</td>
</tr>
<tr>
<td>PHY 222 University Physics with Laboratory II *</td>
<td>4</td>
</tr>
<tr>
<td>PHY 224 University Physics with Laboratory III*</td>
<td>4</td>
</tr>
<tr>
<td>PHY 300 Intermediate Physics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHY 310 Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 380 Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 361 Modern Physics I*</td>
<td>3</td>
</tr>
<tr>
<td>PHY 494 Physics Seminar</td>
<td>1</td>
</tr>
<tr>
<td><strong>Select one 300/400-level PHY or AST course</strong></td>
<td>9</td>
</tr>
<tr>
<td><strong>Credits in Physics</strong></td>
<td><strong>42</strong></td>
</tr>
</tbody>
</table>

Courses in Other Disciplines

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 120/120L General Chemistry I with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHE 121/121L General Chemistry II with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>MAT 129 Calculus I***</td>
<td>4</td>
</tr>
<tr>
<td>MAT 229 Calculus II***</td>
<td>5</td>
</tr>
<tr>
<td>MAT 329 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MAT 325 Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>*A C- or better is required to proceed to the next-level physics course.</td>
<td></td>
</tr>
<tr>
<td>**MAT 128: Calculus A, <em>MAT 227: Calculus B,</em> and <em>MAT 228: Calculus C</em> can be taken instead of <em>MAT 129: Calculus I</em> and <em>MAT 229: Calculus II.</em></td>
<td></td>
</tr>
</tbody>
</table>

Credits in Other Disciplines

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 320 Physical Optics</td>
<td></td>
</tr>
<tr>
<td><strong>Select one 300/400-level PHY or AST course</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits in Physics</strong></td>
<td><strong>42</strong></td>
</tr>
</tbody>
</table>

Physics and Geology Minors

Minor in Astronomy

Astronomy is the study of the universe and its contents including planets, stars, galaxies, and clusters. A minor in astronomy would be particularly useful to students majoring in the physical or biological sciences and math. An astronomy minor can help expand employment and educational opportunities in graduate school, government and industry. The minor in astronomy requires 27 to 29 credit hours. At least nine of those credit hours must be 300 level or above.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 110 Solar System Astronomy with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>AST 115 Stars, Galaxies, and Cosmology with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHY 211 General Physics with Laboratory I --and---</td>
<td>10</td>
</tr>
<tr>
<td>PHY 213 General Physics with Laboratory II --OR--</td>
<td>10</td>
</tr>
<tr>
<td>PHY 220 University Physics with Laboratory I --and--</td>
<td>10</td>
</tr>
<tr>
<td>PHY 222 University Physics with Laboratory II --and--</td>
<td>10</td>
</tr>
<tr>
<td>PHY 224 University Physics with Laboratory II --or--</td>
<td>10</td>
</tr>
<tr>
<td><strong>AST 310 Astronomical Techniques</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>AST 315 Introductory Astrophysics --OR--</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>AST 394 Topics: Astronomy</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Select three credit hours from the following:</strong></td>
<td></td>
</tr>
<tr>
<td>PHY 320 Physical Optics</td>
<td></td>
</tr>
<tr>
<td>AST 325 Geology of the Planets</td>
<td></td>
</tr>
<tr>
<td>AST 392 Directed Research: Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>AST 397 Special Projects: Astronomy</td>
<td></td>
</tr>
<tr>
<td>AST 399 Independent Study in Astronomy</td>
<td></td>
</tr>
<tr>
<td>AST 492 Directed Research: Astronomy</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>27-29</strong></td>
</tr>
</tbody>
</table>

Minor in Geology

A minor in geology consists of 21 credit hours, of which at least 12 must be at the 300 level or above. A minor in geology, emphasizing courses in environmental geology and hydrogeology, is particularly appropriate for students majoring in environmental science. The minor in geology is most appropriate for students who wish to have a background in geology to support another major.

Minor in Physics

The minor in physics requires 21 credit hours of physics and astronomy. Credit in PHY 110 cannot be applied to the minor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 211 General Physics with Laboratory I --and--</td>
<td>12</td>
</tr>
<tr>
<td>PHY 213 General Physics with Laboratory II --OR--</td>
<td>12</td>
</tr>
<tr>
<td>PHY 220 University Physics with Laboratory I --and--</td>
<td>12</td>
</tr>
<tr>
<td>PHY 222 University Physics with Laboratory II --and--</td>
<td>12</td>
</tr>
<tr>
<td>PHY 224 University Physics with Laboratory III</td>
<td>12</td>
</tr>
<tr>
<td><strong>Select one course from the following:</strong></td>
<td></td>
</tr>
<tr>
<td>AST 325 Geology of the Planets</td>
<td></td>
</tr>
<tr>
<td>PHY 305 Statics</td>
<td></td>
</tr>
<tr>
<td>PHY 310 Dynamics</td>
<td></td>
</tr>
<tr>
<td>PHY 315 Introduction to Astrophysics</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** **27-29**
Other Physics and Geology Programs

Astronomy Program

The study of astronomy is an excellent way to present scientific procedure to both science and non-science students. As one of the oldest sciences, astronomy has a rich history, yet modern astronomy carries with it the excitement of discovery and confrontation with the unknown. As a discipline, astronomy relies heavily on the contributions of other sciences, especially the physical sciences. Although a major is not currently offered in astronomy, a minor in astronomy is available. Courses in astronomy may be used to satisfy the general education requirement in natural sciences. Astronomy courses support the science requirements for education majors and may be applied toward the minor in physics. Astronomy courses numbered 300 and above may be applied toward a major in physics. Students interested in pursuing graduate work in astronomy may want to consider majoring in physics with an astronomy minor.

In support of astronomy education, NKU has a state-of-the-art digital planetarium/theatre (Haile Digital Planetarium) that serves as a classroom for university courses and as an outreach facility for P-12 children. The space is covered by a 30-foot dome-shaped projection screen and is equipped with a high-resolution digital laser projector and two high-resolution LCD projectors. Any digital image can be projected onto the dome via the laser projector, including high-quality animation and video sequences. The LCD systems serve more traditional classroom functions, projecting typical presentations, web material, and the like.

NKU planetarium staff, assisted by department faculty, have produced award-winning documentaries. Examples range from highlighting the human fascination with understanding events in the sky through the origin of the Earth-moon system to a virtual tour of a Kentucky cave. The breadth of offerings is enhanced by purchase of commercial packages as well as those produced at other planetariums. Works produced at NKU have been shared with other planetariums across the United States and around the world.

Several thousand school children attend programs in the planetarium each year and go back to their classes with new-found knowledge and excitement for science. While a major focus is on astronomy, the mission of the planetarium is interdisciplinary, presenting additional programs in geology, chemistry, biology, anthropology, and more. Due to the major public funding that made the planetarium possible, all programs are free of charge.

Secondary Education Programs

Certification in Earth and Space Science for Secondary Education

Preparation for certification to teach Earth and space science at the secondary level requires completion of the Bachelor of Arts in geology plus 11 hours of astronomy courses. Detailed program requirements can be found under "secondary education 8-12" in the College of Education and Human Services section of this catalog. Students interested in this program should declare a major in geology and consult with the director of the geology program and the certification specialist in the College of Education and Human Services.

Certification in Physics for Secondary Education

Preparation for certification to teach physics at the secondary level requires completion of the Bachelor of Arts in physics. Detailed program requirements can be found under "secondary education 8-12" in the College of Education and Human Services section of this catalog. Students interested in the program should contact the chair of the Department of Physics and Geology and the certification specialist in the College of Education and Human Services.
Engineering Technology and Pre-Engineering

Engineering Technology Location: Business Academic Center 234  
Telephone: 859-572-1549  
Email Address: engineeringtechnology@nku.edu  
Web Address: http://engtech.nku.edu  
Director of Engineering Technology: Morteza Sadat-Hossieny  
Other Key Personnel:  
Chair: Michael Roth  
Engineering Technology Secretary: Pam Kremer  
Lab Technician: Mike Lehrter  
Full-Time Faculty: Seyed Allameh, Kassiani Kotsidou, Mauricio Torres, Harold Wiebe  

Undergraduate Programs:  
Majors:  
Bachelor of Science  
Electronics Engineering Technology  
Fundamentals of Engineering Track  
Quality Track  
Systems and Design Track  
Mechanical and Manufacturing Engineering Technology  
Design Track  
Quality Track  

Minors:  
Advanced Technology  
Electronics Technology  
Industrial Technology  

Certificates:  
Automated Manufacturing Processes and Systems  
Computer-Aided Design/Drafting (CADD)  
Manufacturing Processes  
Technological Leadership and Innovation  

Pre-Engineering Location: Herrmann Science Center 204H and Founders Hall 510  
Telephone: 859-572-5309  
Fax: 859-572-6092  
Email Address: pre-engineering@nku.edu  
Web Address: http://engtech.nku.edu/  
Director of Pre-Engineering: John Filaseta  
Department Chair: Michael Roth  

Engineering Technology Programs  
Engineering technology is the study and application of concepts from mathematics and natural sciences used in the implementation and extension of existing or emerging technologies. NKU offers programs leading to an ETAC-ABET-accredited Bachelor of Science degree in the field of electronics engineering technology or mechanical and manufacturing engineering technology. These programs provide the knowledge and practical skills required to gain professional employment in electronics, mechanical systems, and manufacturing industry. The engineering technology programs are supported by local industry, with whom many of our students find opportunities to use what they have learned. The opportunity for positions starts in the second year at school, which often continues and leads to full-time employment. Graduates are hired as product design engineers, manufacturing process engineers, quality engineers, sales engineers, etc. Career placement of engineering technology graduates from NKU is excellent.  

Special opportunities for our students: Engineering technology students co-op for at least one semester in a field closely related to their major. Many students participate in national engineering societies, such as the SME (Society for Manufacturing Engineers), ASQ (American Society for Quality), ASME (American Society for Mechanical Engineers), IEEE (Institute for Electrical and Electronics Engineering), and the SAE (Society of Automotive Engineers). Currently, students compete in the SAE Mini-Baja competition against many of the powerhouse engineering schools from the United States, Canada, Mexico, and other countries. Graduates may pursue registration/licensure as a professional engineer in most states. The licensure is acquired after meeting requirements such as registration, passing the requisite tests, and a period of supervised practice.  

You should also know: Transfer students majoring in engineering technology must complete at least 9 credit hours of the applicable discipline-specific courses for the major at NKU. A minimum of 6 credit hours of the applicable courses for any minor in the department must be completed at NKU.  

For more information about the programs including the program objectives and student learning outcomes of EET and MMET, please see the appropriate brochures.  

Engineering Technology Majors  
Bachelor of Science with a major in Electronics Engineering Technology  
This program provides students with both the technological and managerial skills necessary to enter careers in design, application, installation, manufacturing, operation, and maintenance of electrical or electronics systems. Graduates gain skills to analyze, design, apply, and troubleshoot systems with electronic, digital, analog, microcontroller, software, and mechanical components. The combination of practical and theoretical education leads to graduates with diverse technical skills throughout a wide range of applications. Students are required to co-op in industry starting with their second year at school, which often continues and leads to full-time employment.  

The EET program is accredited by the Engineering Technology Accreditation Commission of ABET (http://www.abet.org).  

Students are required to complete the core and a track. A minor is not required.  

Degree Requirements: B.S. – Electronics Engineering Technology  

<table>
<thead>
<tr>
<th>Core Courses in Electronics Engineering Technology</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGT 161 D.C. Circuit Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EGT 212 Computer-Aided Drafting and Design</td>
<td>3</td>
</tr>
<tr>
<td>EGT 261 Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>EGT 267 Programming for Engineering Applications</td>
<td>3</td>
</tr>
<tr>
<td>EGT 280 Introduction to Microtechnology</td>
<td>3</td>
</tr>
<tr>
<td>EGT 300 Statics and Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>EGT 301 Cooperative Education in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Technology</td>
<td></td>
</tr>
<tr>
<td>EGT 310 Project Management and Problem Solving</td>
<td>3</td>
</tr>
<tr>
<td>EGT 343 A.C. Circuit Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EGT 344 Analog Electronics</td>
<td>3</td>
</tr>
<tr>
<td>EGT 345 Digital Electronics</td>
<td>3</td>
</tr>
<tr>
<td>EGT 367 Microprocessors</td>
<td>3</td>
</tr>
<tr>
<td>EGT 386 Electromechanical Instrumentation and Control</td>
<td>3</td>
</tr>
</tbody>
</table>
Select 9 additional credit hours of EGT courses

EGT 404  Signals and Systems  3
EGT 448  Network Hardware  3
EGT 467  Advanced Microprocessors  3
EGT 417  Senior Design in Technology  (may be repeated up to three times)  3

Core Credits in Electronics Engineering Technology  51

Courses in Other Disciplines
CHE 120/120L General Chemistry I with Laboratory  4
MAT 119 Precalculus Mathematics  3
MAT 128 and Calculus A  4 or 6
MAT 227 Calculus B  3
-- OR --
MAT 129 Calculus I  3
PHY 211 General Physics with Laboratory I  5
PHY 213 General Physics with Laboratory II  5
STA 205 Introduction to Statistical Methods  3

Core Credits in Other Disciplines  24 or 26

TOTAL CORE CREDITS  75-77

Select one track (12 hours) plus 9 hours of elective EGT courses (in the tracks below) for a total of 21 credit hours.

Systems and Design Track
EGT 320 Robotic Systems and Material Handling  3
EGT 408 Mechatronics Topics  3
EGT 412 Advanced CADD  3
EGT 462 Finite Element Modeling  3
Select 9 additional credit hours of EGT courses  9

TOTAL TRACK CREDITS  21

TOTAL Core Credits  75-77

TOTAL CREDITS  96-98

Fundamentals of Engineering Track
EGT 318 Introduction to Nanotechnology  3
EGT 340 Applied Dynamics  3
EGT 361 Fluid Power  3
EGT 450 Thermodynamics and Heat Transfer  3
Select 9 additional credit hours of EGT courses  9

TOTAL TRACK CREDITS  21

TOTAL Core Credits  75-77

TOTAL CREDITS  96-98

Quality Track
EGT 211 Quality Control  3
EGT 321 Productivity Management, Scheduling, and Planning  3
EGT 341 Integrated Resource Management  3
EGT 405 Metrology and Geometric Tolerancing  3
Select 9 additional credit hours of EGT courses  9

TOTAL TRACK CREDITS  21

TOTAL Core Credits  75-77

TOTAL CREDITS  96-98

Bachelor of Science with a major in Mechanical and Manufacturing Engineering Technology

The accredited Bachelor of Science in mechanical and manufacturing engineering technology focuses on the design and development of parts, processes, and systems. Under this program graduates will acquire knowledge, problem-solving ability, and hands-on skills to enter careers in the design, installation, manufacturing, testing, evaluation, technical sales, or maintenance of mechanical systems. In addition, graduates will have strengths in the analysis, applied design, development, implementation, or oversight of more advanced mechanical systems and processes.

This bachelor’s degree program is designed to provide students with the knowledge and skills needed to succeed as technological engineers in today’s industry. Students are required to co-op in industry starting with their second year, which often continues and leads to full-time employment. Together with the study of engineering principles, design is the cornerstone of the mechanical and manufacturing technology degree program.

The MMET program is accredited by the Engineering Technology Accreditation Commission of ABET (http://www.abet.org).

Students are required to complete the core plus one track. A minor is not required.

Degree Requirements: B.S. – Mechanical and Manufacturing Engineering Technology

<table>
<thead>
<tr>
<th>Core Courses In Mechanical and Manufacturing Engineering Technology</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGT 116 Introduction to Industrial Materials and Processes</td>
<td>3</td>
</tr>
<tr>
<td>EGT 161 D.C. Circuit Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EGT 211 Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>EGT 212 Computer-Aided Drafting and Design</td>
<td>3</td>
</tr>
<tr>
<td>EGT 261 Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>EGT 265 Manufacturing Processes and Metrology</td>
<td>3</td>
</tr>
<tr>
<td>EGT 267 Programming for Engineering Applications</td>
<td>3</td>
</tr>
<tr>
<td>EGT 300 Statics and Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>EGT 301 Cooperative Education in Engineering Technology</td>
<td>3</td>
</tr>
<tr>
<td>EGT 310 Project Management and Problem Solving</td>
<td>3</td>
</tr>
<tr>
<td>EGT 318 Introduction to Nanotechnology</td>
<td>3</td>
</tr>
<tr>
<td>EGT 320 Robotic Systems and Material Handling</td>
<td>3</td>
</tr>
<tr>
<td>EGT 340 Applied Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>EGT 361 Fluid Power</td>
<td>3</td>
</tr>
<tr>
<td>EGT 365 CNC &amp; Manufacturing Process Planning</td>
<td>3</td>
</tr>
<tr>
<td>EGT 380 Machine Design</td>
<td>3</td>
</tr>
<tr>
<td>EGT 417 Senior Design in Technology</td>
<td>3</td>
</tr>
<tr>
<td>EGT 405 Metrology and Geometric Tolerancing</td>
<td>3</td>
</tr>
<tr>
<td>EGT 450 Thermodynamics and Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>EGT 465 Automated Manufacturing Systems</td>
<td>3</td>
</tr>
</tbody>
</table>
| Determine two courses from the following:
| EGT 260 Industrial Standards, Safety and Codes | 3 |
| EGT 280 Introduction to Microtechnology | 3 |
| EGT 362 Tool Design and Computer Aided Manufacturing | 3 |
| EGT 386 Electromechanical Instrumentation and Control | 6 |
| EGT 411 Quality Assurance and Auditing | 3 |
| EGT 423 Planning and Design of Industrial Facilities | 3 |

| Core Credits in MMET | 66 |

Core Courses in Other Disciplines
CHE 120/120L General Chemistry I with Laboratory  4
MAT 119 Precalculus Mathematics  3
MAT 128 and Calculus A  3
MAT 227 Calculus B  3 or 6
Students majoring in MMET are not eligible for this minor.

## Minor in Advanced Technology
The minor in advanced technology is designed to supplement the knowledge and expertise of students majoring in one of the STEM fields who have an interest in design, problem-solving materials processes, and robotics. Students majoring in MMET are not eligible for this minor.

### Requirements for Minor: Advanced Technology

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGT 161</td>
<td>3</td>
</tr>
<tr>
<td>EGT 261</td>
<td>3</td>
</tr>
<tr>
<td>EGT 280</td>
<td>3</td>
</tr>
<tr>
<td>EGT 310</td>
<td>3</td>
</tr>
<tr>
<td>EGT 318</td>
<td>3</td>
</tr>
<tr>
<td>EGT 386</td>
<td>3</td>
</tr>
<tr>
<td>STA 205</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL CREDITS</td>
<td>21</td>
</tr>
</tbody>
</table>

## Minor in Industrial Technology
The minor in industrial technology is designed to supplement the knowledge and expertise of students majoring in one of the STEM fields who have an interest in design, problem-solving materials processes, and robotics. Students majoring in MMET are not eligible for this minor.

### Requirements for Minor: Industrial Technology

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGT 116</td>
<td>3</td>
</tr>
<tr>
<td>EGT 161</td>
<td>3</td>
</tr>
<tr>
<td>EGT 211</td>
<td>3</td>
</tr>
<tr>
<td>EGT 212</td>
<td>3</td>
</tr>
<tr>
<td>EGT 265</td>
<td>3</td>
</tr>
<tr>
<td>EGT 320</td>
<td>3</td>
</tr>
<tr>
<td>EGT 365</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL CREDITS</td>
<td>21</td>
</tr>
</tbody>
</table>

## Engineering Technology Undergraduate Certificates

### Certificate in Automated Manufacturing Processes and Systems

This program is designed to provide students with manufacturing automation knowledge. Individuals planning to work in Agile and flexible automated manufacturing would greatly benefit from this certificate program. The NKU engineering technology faculty are committed to quality education and training needed by individuals to function effectively in a technological environment.

### Requirements for Certificate: Automated Manufacturing Processes and Systems

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGT 161</td>
<td>3</td>
</tr>
<tr>
<td>EGT 212</td>
<td>3</td>
</tr>
<tr>
<td>EGT 265</td>
<td>3</td>
</tr>
<tr>
<td>EGT 301</td>
<td>3</td>
</tr>
<tr>
<td>EGT 320</td>
<td>3</td>
</tr>
<tr>
<td>EGT 365</td>
<td>3</td>
</tr>
<tr>
<td>EGT 386</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL CREDITS</td>
<td>21</td>
</tr>
</tbody>
</table>

### Certificate in Computer Aided Design/Drafting

The CADD certificate is a component of the Mechanical and Manufacturing Engineering Technology bachelor degree program. It consists of a number of courses that allow individuals to meet the need for manufacturers and/or innovators in the region. Knowledge and skills gained through this certificate program will allow individuals to convey their ideas into a manufactureable drawing. Students taking these courses can design, make solid models, and create finite element analysis models necessary to test the models.

### Requirements for Certificate: Computer Aided Design/Drafting

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGT 212</td>
<td>3</td>
</tr>
<tr>
<td>EGT 265</td>
<td>3</td>
</tr>
<tr>
<td>EGT 362</td>
<td>3</td>
</tr>
<tr>
<td>EGT 365</td>
<td>3</td>
</tr>
<tr>
<td>EGT 412</td>
<td>3</td>
</tr>
<tr>
<td>EGT 462</td>
<td>3</td>
</tr>
<tr>
<td>MAT 119</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL CREDITS</td>
<td>21</td>
</tr>
</tbody>
</table>
Certificate in Manufacturing Processes
This program provides hands-on expertise in manufacturing processes, enabling individuals to perform material-processing tasks and achieve higher levels of performance to advance in their industrial professions. The manufacturing process certificate is a component of the mechanical and manufacturing engineering technology degree program. It is designed to meet the industrial workforce development needs in the Greater Cincinnati area. Completion of the following 21 credit hours is required for this certificate program.

Requirements for Certificate: Manufacturing Processes Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGT 116</td>
<td>3</td>
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<tr>
<td>EGT 161</td>
<td>3</td>
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<td>EGT 211</td>
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<td>EGT 212</td>
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<tr>
<td>EGT 365</td>
<td>3</td>
</tr>
<tr>
<td>EGT 412</td>
<td>3</td>
</tr>
<tr>
<td>MAT 119</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

Certificate in Technological Leadership and Innovation
The technological leadership and innovation certificate program helps develop an understanding of the method for managing technology as a global strategic resource. It examines how industries are transformed by new technologies and develops an understanding of the process, roles, and rewards of technological innovation.

It integrates content from strategy and policy, organizational behavior, engineering operations, marketing research and development. The relationship of technology with strategic planning, marketing, finance, engineering, and manufacturing is integrated. Service, societal issues, and international policy issues are covered in some courses.

Requirements for Certificate: Technological Leadership and Innovation Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGT 211</td>
<td>3</td>
</tr>
<tr>
<td>EGT 318</td>
<td>3</td>
</tr>
<tr>
<td>EGT 321</td>
<td>3</td>
</tr>
<tr>
<td>ENTP 201</td>
<td>3</td>
</tr>
<tr>
<td>ENTP 376</td>
<td>3</td>
</tr>
<tr>
<td>LDR 305</td>
<td>3</td>
</tr>
<tr>
<td>LDR 308</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

Pre-Engineering
Engineering is the profession in which the knowledge of the mathematical and natural sciences gained by study, experience, and practice is applied with judgment to develop ways to use economically the materials and forces of nature for the benefit of mankind (ABET, Inc., 2002).

Hence, engineering and the practice of engineers refer to activities that involve the beneficial application of scientific knowledge to the solution of problems. Notice that this application includes economic considerations, uses of materials (for example, resources), and the forces of nature. Additionally, engineering is a profession. Webster notes that a profession is "the body of people in a learned occupation." Engineers have a specialized charge of using knowledge, experience, and creativity, to tackle and systematically design solutions to challenges and problems.

The student who graduates with a Bachelor of Science in engineering will complete study of mathematics courses through differential equations, basic classes in chemistry and calculus-based physics, and the normal set of general-education classes during the whole of the first two years of college. During the second year the engineering student will start the study of coursework (for example, statics or dynamics) that bridges the gap between these basic sciences and the engineering applications of the knowledge of the basic sciences. The last two years will be completed at a campus such as the University of Kentucky or the University of Louisville. These last two years of courses are largely devoted to the study of engineering applications of science and mathematics to the matters of the student’s chosen engineering discipline. These courses involve design of solutions culminating with a senior design course and project that are specific to the discipline.

Students who expect to transfer to engineering degree programs such as civil, electrical, mechanical, or mining engineering should complete the courses below plus general education courses.

Pre-Engineering: Civil, Electrical, Mechanical, Mining Courses Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 129</td>
<td>4</td>
</tr>
<tr>
<td>MAT 229</td>
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<tr>
<td>MAT 329</td>
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<tr>
<td>MAT 325</td>
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<tr>
<td>PHY 100</td>
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<tr>
<td>PHY 220</td>
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<tr>
<td>PHY 222</td>
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<tr>
<td>PHY 224</td>
<td>4</td>
</tr>
<tr>
<td>PHY 305</td>
<td>3</td>
</tr>
<tr>
<td>CHE 120/</td>
<td>3</td>
</tr>
<tr>
<td>CHE 120L</td>
<td>4</td>
</tr>
<tr>
<td>CMST 101</td>
<td>3</td>
</tr>
<tr>
<td>EGT 212*</td>
<td>3</td>
</tr>
<tr>
<td>ECO 201**</td>
<td>3</td>
</tr>
<tr>
<td>EN 101</td>
<td>3</td>
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<td>TOT 347</td>
<td>3</td>
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<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>63</strong></td>
</tr>
</tbody>
</table>

* Recommended for students who wish to co-op in the area. EGT 212 uses the same design software as UK/UofL, but EGT 212 will not transfer to UK/UofL as engineering credit. However, the co-op experience will transfer.

** Recommended as part of the general education requirements.

Students who expect to transfer to engineering degree programs such as chemical, biomedical, materials or agricultural/bioengineering should complete the core courses below plus general education courses.

Pre-Engineering: Chemical, Biomedical, Materials, Agricultural/Bioengineering Courses Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 129</td>
<td>4</td>
</tr>
<tr>
<td>MAT 229</td>
<td>5</td>
</tr>
<tr>
<td>MAT 329</td>
<td>4</td>
</tr>
<tr>
<td>MAT 325</td>
<td>3</td>
</tr>
<tr>
<td>PHY 100</td>
<td>1</td>
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<tr>
<td>PHY 220</td>
<td>4</td>
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<tr>
<td>PHY 222</td>
<td>4</td>
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<tr>
<td>PHY 224</td>
<td>4</td>
</tr>
<tr>
<td>PHY 305</td>
<td>3</td>
</tr>
<tr>
<td>CHE 120/</td>
<td>3</td>
</tr>
<tr>
<td>CHE 120L</td>
<td>4</td>
</tr>
</tbody>
</table>

TOTAL CREDITS: 63
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 121/</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHE 121L</td>
<td>General Chemistry II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHE 310/</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHE 310L</td>
<td>Organic Chemistry II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHE 311/</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHE 311L</td>
<td>Organic Chemistry II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing</td>
<td>3</td>
</tr>
<tr>
<td>CMST 101</td>
<td>Principles of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>EGT 212*</td>
<td>Computer-Aided Drafting and Design</td>
<td>3</td>
</tr>
<tr>
<td>Select 6</td>
<td>credit hours of general education courses</td>
<td>6</td>
</tr>
</tbody>
</table>

* Recommended for students who wish to co-op in the area. EGT 212 uses the same design software as UK/UofL, but EGT 212 will not transfer to UK/UofL as engineering credit. However, the co-op experience will transfer.

**Total Recommended Minimum for Transfer to a B.S. Engineering Degree Program** 63

At the bachelor’s degree level at UK, ABET-accredited degrees are offered in the fields of biosystems and agricultural, chemical, civil, computer, electrical, materials, mechanical, and mining engineering. At University of Louisville in the Speed School, degrees are offered in chemical, civil, electrical, industrial, and mechanical engineering, and ABET-accredited degrees are offered at the bachelor’s and master’s level in these fields.

**Dual-degree option for pre-engineers:** Transferring from NKU to engineering degree programs elsewhere generally requires at least two years of study at NKU and then an additional two (or more) years of study after transfer to the engineering degree program at the institution of choice. Pre-engineers have the opportunity to earn a bachelor’s degree in physics (or chemistry) from NKU if they complete three years of study at NKU prior to transferring to an engineering school. The fourth-year requirements for the NKU degree in physics (or chemistry) are obtained after transferring course credit to NKU that was earned at the engineering school. This dual-degree program (one bachelor’s degree from NKU, the other from an engineering school) should be coordinated with the department chair of the academic program (physics or chemistry) prior to transfer from NKU.

A shared cooperative education program with UK is available. The enrolled student works full time and enrolls full time in classes during alternating semesters/sessions. Cooperative education credit earned at NKU may be transferred to other schools.
Department of Political Science, Criminal Justice, and Organizational Leadership

Location: Founders Hall 436  
Telephone: 859-572-5321  
Fax: 859-572-6184  
Email Address: psc@nku.edu  
Web Address: http://artsscience.nku.edu/departments/pscj.html  
Department Chair: Shamima Ahmed  
Other Key Personnel: Jill Shelley, Kimberly Weir, Jeffrey Zimmerman

Thinking about the discipline: Majors in these programs prepare students for careers in government (from local to international positions), entry into the private sector, and opportunities in nonprofit organizations. This multidisciplinary department offers students a comprehensive understanding of government, politics, ethics, leadership, and bureaucracy.

Special opportunities for our students: Majors in this department have opportunities to conduct research with faculty and to enroll in independent reading courses to meet their specific or unique intellectual needs. Students have excellent opportunities to intern or co-op at different places including in Frankfort (through the FLIP program) and in Washington, D.C. (through the Washington Center Internship Program). Through its curriculum, the department regularly offers courses for the honors program and service-learning experiences for students. The department advises several student clubs including Xi Omega (political science honor society), Phi Alpha Delta (pre-law honor society), Model United Nations Club, College Democrats, College Republicans, Lambda Alpha Epsilon (American Criminal Justice Association), Alpha Phi Sigma (national criminal justice honor society, and Organizational Leadership Collaborative (organizational leadership student group).

Each year the department holds an awards ceremony to recognize students’ achievements.

Special admission requirements: To declare a major in political science, criminal justice, organizational leadership, or international studies, students – including transfer students – must have earned a GPA of at least 2.50 in all prior college work. First-semester students who wish to declare a major in one of the above programs must have an ACT composite score of at least 21 or an SAT score of at least 990.

Students with less than 2.5 cumulative GPA seeking to declare the organizational leadership major must first be admitted to the pre-LDR major. Students in the pre-major who successfully complete 12 credit hours with a GPA of 2.5 or above may request to be admitted into the major.

You should also know: Students majoring or minoring in political science, international studies, organizational leadership, or criminal justice must earn at least a C- in each course counted as part of the major or minor. Students can also complete a bachelor’s degree in criminal justice and organizational leadership in a fully online format. For more information, contact Educational Outreach.

Political Science, Criminal Justice, and Organizational Leadership Majors

Bachelor of Arts with a major in Political Science

The major in political science provides a comprehensive understanding of politics. It does so by acquainting students with the literature of the discipline in six different areas (American politics, comparative politics, international politics, law, political theory, and public policy) and by equipping students with methodological tools necessary for sound and critical analysis of political institutions of behavior and of processes by which public policy is formed. The faculty also seek to engage students in a partnership of research and other scholarly endeavors.

There are 36 hours of required classes for the Bachelor of Arts. In addition, students are required to complete 15 hours of political science electives.

Degree Requirements: B.A. – Political Science

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 100/100H</td>
<td>American Politics -- OR --</td>
</tr>
<tr>
<td>PSC 101</td>
<td>State and Local Politics</td>
</tr>
</tbody>
</table>

Interdisciplinary Programs (see interdisciplinary section of catalog)

<table>
<thead>
<tr>
<th>Major:</th>
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</thead>
<tbody>
<tr>
<td>International Studies</td>
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</table>

<table>
<thead>
<tr>
<th>Minor:</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Asian Studies on page 198</td>
<td></td>
</tr>
<tr>
<td>European Studies on page 201</td>
<td></td>
</tr>
<tr>
<td>International Studies</td>
<td></td>
</tr>
<tr>
<td>Latin American and Caribbean Studies</td>
<td></td>
</tr>
<tr>
<td>Middle Eastern and North African Studies</td>
<td></td>
</tr>
<tr>
<td>Sub-Saharan African Studies</td>
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</table>

<table>
<thead>
<tr>
<th>Certificate:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Geographic Information Systems</td>
<td></td>
</tr>
</tbody>
</table>

Other Key Personnel: Jill Shelley, Kimberly Weir, Jeffrey Zimmerman

Full-Time Faculty: Shamima Ahmed, Michael Baranowski, Michael Bush, Kent Curtis, Megan Downing, Tom Edwards, Edward Kwon, Thomas Lambert, Areyls Madero-Hernandez, Gary Matsson, Bruce McClure, Danielle McDonald, Jonathan McKenzie, Alexis Miller, Marcos Misis, Melissa Moon, Gail O'Brien, Julie Olberding, April Redden, Shauna Reilly, Ryan Salzman, Jill Shelley, Kimberly Weir, Jeffrey Zimmerman

Undergraduate Programs:

Majors: Bachelor of Arts  
Criminal Justice  
Organizational Leadership  
Political Science

Minors: Criminal Justice  
Criminalistics  
Organizational Leadership  
Political Science  
Public Service  
Pre-Law

Certificate: Organizational Leadership

Courses: PSC 100/100H  
American Politics -- OR --  
PSC 101  
State and Local Politics

Fax: 859-572-6184  
Telephone: 859-572-5321  
Email Address: psc@nku.edu  
Web Address: http://artsscience.nku.edu/departments/pscj.html  
Department Chair: Shamima Ahmed  
Other Key Personnel: Jill Shelley, Kimberly Weir, Jeffrey Zimmerman

Thinking about the discipline: Majors in these programs prepare students for careers in government (from local to international positions), entry into the private sector, and opportunities in nonprofit organizations. This multidisciplinary department offers students a comprehensive understanding of government, politics, ethics, leadership, and bureaucracy.
JUS 101  Introduction to Criminal Justice  3
JUS 200  Police in America  3
JUS 201  Corrections in America  3
JUS 203  The Criminal Court System  3
JUS 301  Ethics in Criminal Justice  3
JUS 315  Criminal Justice Research Methods  3
Prerequisite: STA 205 or STA 212
JUS 317  Perspectives on Crime  3
Prerequisite: STA 205 or STA 212
JUS 400  Juvenile Justice  3
JUS 204  Criminal Investigation  3
JUS 205  Criminal Evidence  3
JUS 210  Legal Research  3
JUS 231  Race, Gender, and Crime  3
JUS 294  Topics: Justice Studies  3
JUS 302  Criminal Law  3
JUS 303  Criminal Procedure  3
JUS 310  Police Management  3
JUS 311  Police in the Community  3
JUS 312  Institutional Corrections  3
JUS 313  Rights of the Convicted  3
JUS 319  Criminal Justice in Film  3
JUS 320  Advanced Crime Scene Technology and Forensics  3
JUS 333  Careers in Criminal Justice  3
JUS 351  Financial Investigations  3
JUS 395  Criminal Justice: Study Abroad  3
JUS 402  Alternatives to Incarceration  3
JUS 403  Crime and Public Policy  3
JUS 404  Evidence Preparation and Courtroom Testimony  3
JUS 405  Crime Prevention  3
JUS 408  Victims and Crime  3
JUS 428  Crime Across the Life Course  3
JUS 429  Women in Criminal Justice  3
JUS 494  Seminar: Justice Studies  3
JUS 496  Internship: Justice Studies  3
JUS 499  Readings: Justice Studies  3

Bachelor of Arts in Criminal Justice
Available in both traditional and fully-online formats.

The major consists of a 24-credit-hour core and 24 credit hours of additional requirements. Core courses provide a conceptual understanding of criminal justice institutions and processes, theories of crime and punishment, ethics, and social science research methods. Rather than training individuals for a particular occupation through instruction in specific vocational skills, the program offers a broad, liberal education focused on the cultivation of analytical and creative thought and on the ability to read, write, and speak effectively.

The degree is also available in a fully-online format; interested students should contact Educational Outreach for more information. JUS online course offerings in the fall and spring semesters are set up for students enrolled in our criminal justice online program. Thus, we do not give permits for face-to-face students to enroll in online restricted classes (those designated ONLR). However, depending on the enrollment numbers in the online restricted sections, and the incoming online student population, we may release some seats from the restricted sections to the online non-restricted sections (those designated OLR) immediately after the priority registration deadline and again just before classes begin. Students interested in the online section of a course must check myNKU for openings in the online non-restricted (ONL) section of those courses after priority registration and before classes begin.

Students majoring or minoring in criminal justice must earn at least a C- in each course counted as part of the major or minor. At least 24 hours of JUS courses must be earned in residence at NKU.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.A. – Criminal Justice

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<th>Courses</th>
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<tbody>
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<tr>
<td>JUS 200</td>
<td>3</td>
</tr>
<tr>
<td>JUS 201</td>
<td>3</td>
</tr>
<tr>
<td>JUS 203</td>
<td>3</td>
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<tr>
<td>JUS 301</td>
<td>3</td>
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<tr>
<td>JUS 315</td>
<td>3</td>
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<tr>
<td>JUS 317</td>
<td>3</td>
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<tr>
<td>JUS 400</td>
<td>3</td>
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<tr>
<td>JUS 204</td>
<td>3</td>
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<td>JUS 205</td>
<td>3</td>
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<tr>
<td>JUS 210</td>
<td>3</td>
</tr>
<tr>
<td>JUS 231</td>
<td>3</td>
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<td>JUS 294</td>
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<td>JUS 310</td>
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<td>JUS 351</td>
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<td>JUS 395</td>
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<td>JUS 402</td>
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<td>JUS 403</td>
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<td>JUS 404</td>
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<tr>
<td>JUS 405</td>
<td>3</td>
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<td>JUS 408</td>
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<td>JUS 428</td>
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<td>JUS 429</td>
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<td>JUS 494</td>
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<td>JUS 496</td>
<td>3</td>
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<tr>
<td>JUS 499</td>
<td>3</td>
</tr>
</tbody>
</table>

Bachelor of Arts in Organizational Leadership
Available in both traditional and fully-online formats.

The organizational leadership program explores both theoretical and practical understandings of leadership. Students examine leadership in various types of organizations and across organizational levels and positions while recognizing that leadership is both a solitary, authoritarian phenomenon to a process that is inclusive and collaborative. Students who successfully complete the organizational leadership program will be able to understand the leadership process, develop and use contemporary tools and theories, and appreciate diverse and global perspectives. Partnering organizational leadership requirements with a secondary area of study (minor or focus) aligned with educational and career objectives equips students to collaborate, lead, and adapt to future needs in an area of interest.

Degree completion in organizational leadership is available in the following program delivery modes: (1) traditional face-to-face classes; (2) the Program for Adult-Centered Education, an accelerated face-to-face evening program
for adult learners; and (3) completely online. Online learning offers a flexible alternative, and PACE offers an accelerated evening format in Highland Heights and at the Grant County Center in Williamstown, Ky.

For questions about organizational leadership, email the program coordinator (orglead@nku.edu).

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

### Degree Requirements: B.A. – Organizational Leadership

#### Courses in Leadership

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDR 300</td>
<td>Foundations of Leadership</td>
<td>3</td>
</tr>
<tr>
<td>LDR 308</td>
<td>Leadership Development</td>
<td>3</td>
</tr>
<tr>
<td>LDR 310</td>
<td>Research Methods in Leadership</td>
<td>3</td>
</tr>
<tr>
<td>LDR 381</td>
<td>Organizational Ethics and Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>LDR 382</td>
<td>Organizational Theory and Change</td>
<td>3</td>
</tr>
<tr>
<td>LDR 385</td>
<td>Teamwork in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>LDR 394</td>
<td>Special Topics in Leadership</td>
<td>3</td>
</tr>
<tr>
<td>LDR 460</td>
<td>Leading in Diverse and Global Contexts</td>
<td>3</td>
</tr>
<tr>
<td>LDR 480</td>
<td>Organizational Leadership Capstone</td>
<td>3</td>
</tr>
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</table>

#### Credits in Political Science, Criminal Justice and Organizational Leadership 27

#### Courses in Other Disciplines

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PSY 340</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 344</td>
<td>Industrial/Organizational Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Credits in Other Disciplines 6

#### TOTAL CREDITS 33

Students with fewer than 60 hours credit at admission or major declaration must complete these foundation classes (four classes):

#### Foundation Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDR 117</td>
<td>Introduction to Supervision</td>
<td>3</td>
</tr>
<tr>
<td>LDR 180</td>
<td>Leadership Around the World</td>
<td>3</td>
</tr>
<tr>
<td>LDR 205</td>
<td>Human Relations in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>LDR 394</td>
<td>Special Topics in Leadership (This is in addition to the LDR 394 required for the major.)</td>
<td>3</td>
</tr>
</tbody>
</table>

#### TOTAL FOUNDATION CREDITS 12

The following leadership courses are available as electives: “LDR 396: Leadership Practicum” (variable credit one to 6 hours; repeatable for up to 9 hours), “LDR 315: Leading People in Organizations,” and the option to repeat LDR 394 for up to 12 credit hours as long as topics differ. Students who are not required to complete the four foundation classes may also take “LDR 117: Introduction to Supervision,” “LDR 180: Leadership Around the World,” and “LDR 205: Human Relations in Organizations” as elective courses. Note: “LDR 180: Leadership Around the World” is also a Global Viewpoints Foundation of Knowledge course.

### Political Science, Criminal Justice, and Organizational Leadership Minors

#### Minor in Criminalistics

This minor provides students with an understanding of the significant role that science is accorded in the criminal justice system, especially in criminal investigations and criminal trials. This minor is not permitted for criminal justice majors.

**Requirements for Minor: Criminalistics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JUS 101</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>JUS 204</td>
<td>Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>JUS 205</td>
<td>Criminal Evidence</td>
<td>3</td>
</tr>
<tr>
<td>JUS 231</td>
<td>Race, Gender, and Crime</td>
<td>3</td>
</tr>
<tr>
<td>JUS 303</td>
<td>Criminal Procedure</td>
<td>3</td>
</tr>
<tr>
<td>JUS 320</td>
<td>Advanced Crime Scene Technology and Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>JUS 404</td>
<td>Evidence Preparation and Courtroom Testimony</td>
<td>3</td>
</tr>
</tbody>
</table>

#### TOTAL CREDITS 21

#### Minor in Criminal Justice

**Requirements for Minor: Criminal Justice**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JUS 101</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>JUS 200</td>
<td>Police in America</td>
<td>3</td>
</tr>
<tr>
<td>JUS 201</td>
<td>Corrections in America</td>
<td>3</td>
</tr>
<tr>
<td>JUS 203</td>
<td>The Criminal Court System</td>
<td>3</td>
</tr>
<tr>
<td>Select 9 300/400-level JUS credit hours</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

#### TOTAL CREDITS 21

#### Minor in Organizational Leadership

Available in both traditional and fully-online formats.

**Requirements for Minor: Organizational Leadership**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDR 300</td>
<td>Foundations of Leadership</td>
<td>3</td>
</tr>
<tr>
<td>LDR 308</td>
<td>Leadership Development</td>
<td>3</td>
</tr>
<tr>
<td>Select four additional LDR courses</td>
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<td></td>
</tr>
</tbody>
</table>

#### TOTAL CREDITS 18

#### Minor in Political Science

Available in both traditional and fully-online formats.

**Requirements for Minor: Political Science**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 100</td>
<td>American Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSC 102</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSC 103</td>
<td>International Politics</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 PSC credit hours at the 300 level or above</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

#### TOTAL CREDITS 21

#### Minor in Pre-Law

The pre-law minor may appeal to students who major in non-law-related fields and plan to apply to law school. It exposes them to legal courses before pursuing their professional education. The minor in pre-law does not guarantee successful admission into law school nor is it a prerequisite for law school.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

**Requirements for Minor: Pre-Law**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JUS 210</td>
<td>Legal Research</td>
<td>3</td>
</tr>
</tbody>
</table>

#### TOTAL CREDITS 18
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 110</td>
<td>Political Ideas</td>
<td>3</td>
</tr>
<tr>
<td>PSC 304</td>
<td>Introduction to the Law</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110</td>
<td></td>
</tr>
<tr>
<td>PSC 305</td>
<td>The Judicial Process</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110</td>
<td></td>
</tr>
</tbody>
</table>

Select three courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 307</td>
<td>Constitutional Law</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110</td>
<td></td>
</tr>
<tr>
<td>PSC 308</td>
<td>Civil Liberties</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110</td>
<td></td>
</tr>
<tr>
<td>PSC 375</td>
<td>Perspectives on Law</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110</td>
<td></td>
</tr>
<tr>
<td>PSC 394</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>PSC 480</td>
<td>International Law</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite: PSC 100, PSC 102, PSC 103 or PSC 110</td>
<td>9</td>
</tr>
<tr>
<td>PSC 496</td>
<td>Internship in Political Science</td>
<td></td>
</tr>
<tr>
<td>JUS 203</td>
<td>The Criminal Court Systems</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite: JUS 101</td>
<td></td>
</tr>
<tr>
<td>JUS 205</td>
<td>Criminal Evidence</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite: JUS 101</td>
<td></td>
</tr>
<tr>
<td>JUS 231</td>
<td>Race, Gender, and Crime</td>
<td></td>
</tr>
<tr>
<td>JUS 302</td>
<td>Criminal Law</td>
<td></td>
</tr>
<tr>
<td>JUS 303</td>
<td>Criminal Procedure</td>
<td></td>
</tr>
<tr>
<td>JUS 313</td>
<td>Rights of the Convicted</td>
<td></td>
</tr>
<tr>
<td>PHI 200</td>
<td>Ethics</td>
<td></td>
</tr>
<tr>
<td>PHI 330</td>
<td>Philosophy and the Law</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 21**

### Minor in Public Service

The public service minor is designed for students interested in careers such as: service delivery or management in a local, state or federal agency; policy making, implementation and evaluation; nonprofit management; and community planning and development. Some courses are offered online, and 500-level courses completed with a grade of A or B may be counted toward a Master of Public Administration at NKU. The public service practicum (PAD 498) is an opportunity to earn up to 6 credit hours while applying classroom learning to a practical setting in a government, nonprofit or related organization in the northern Kentucky/Greater Cincinnati region, the state capital of Frankfort, or another locale.

**Requirements for Minor: Public Service**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 300</td>
<td>Introduction to Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PAD 403</td>
<td>Public Policy --OR--</td>
<td></td>
</tr>
<tr>
<td>PSC 403</td>
<td>Politics in Action</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 15**

### Political Science, Criminal Justice, and Organizational Leadership Undergraduate Certificates

#### Certificate in Organizational Leadership

Available in both traditional and fully-online formats.

**Requirements for Certificate: Organizational Leadership**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDR 117</td>
<td>Introduction to Supervision</td>
<td>3</td>
</tr>
<tr>
<td>LDR 205</td>
<td>Human Relations in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>LDR 308</td>
<td>Leadership Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDR 300</td>
<td>Foundations of Leadership</td>
<td></td>
</tr>
<tr>
<td>LDR 381</td>
<td>Organizational Ethics and Decision Making</td>
<td>6</td>
</tr>
<tr>
<td>LDR 382</td>
<td>Organizational Theory and Change</td>
<td></td>
</tr>
<tr>
<td>LDR 385</td>
<td>Teamwork in Organizations</td>
<td></td>
</tr>
<tr>
<td>LDR 460</td>
<td>Leading in Diverse and Global Contexts</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 15**

### Focus in Pre-Law

Students considering law careers may choose a pre-law minor or may simply wish to fulfill their requirement for a pre-law focus by taking any four of the political science courses listed below. Students must complete an introductory PSC class as a prerequisite. Students cannot double-dip courses between their political science major and pre-law focus.

**Requirements for Focus: Pre-Law**

Select any four courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 304</td>
<td>Introduction to the Law</td>
<td></td>
</tr>
<tr>
<td>PSC 305</td>
<td>The Judicial Process</td>
<td></td>
</tr>
<tr>
<td>PSC 307</td>
<td>Constitutional Law</td>
<td>12</td>
</tr>
<tr>
<td>PSC 308</td>
<td>Civil Liberties</td>
<td></td>
</tr>
<tr>
<td>PSC 480</td>
<td>International Law</td>
<td></td>
</tr>
<tr>
<td>PSC 375</td>
<td>Perspectives on Law</td>
<td></td>
</tr>
</tbody>
</table>

**Total Program Credits 12**

**Additional Prerequisite Credits 3**

**TOTAL CREDITS 15**
Department of Psychological Science

Location: Mathematics-Education-Psychology Center 301
Telephone: 859-572-5310
Fax: 859-572-6085
Email Address: psychology@nku.edu
Web Address: http://psychology.nku.edu
Department Chair: Jeffrey Smith
Other Key Personnel:
   Assistant Chair: Angela Lipsitz
   Retention Specialist: Kathleen O’Connor
   Department Coordinator: Debbie Kelly
   Secretary: Lynne Fuhrmann

Full-Time Faculty: Bill Attenweiler, Mark Bardgett, Robin Bartlett, Paul Bishop, Kim Breitenbecher, Kathleen Fuegen, Perilou Goddard, David Hogan, Doug Krull, Angela Lipsitz, George Manning, Cecile Marczinski, Philip J. Meberg, Kathleen O’Connor, Jeff Smith, Jim Thomas

Undergraduate Programs:
   Majors:
      Bachelor of Arts
      Psychological Science
      Bachelor of Science
      Psychological Science
   Minors:
      Neuroscience (see interdisciplinary section of catalog)
      Psychological Science

Thinking about the discipline: A degree in psychological science opens the door to one of the most challenging and rewarding professional fields today. The psychological science major is designed to provide students with flexibility in the selection of courses to meet their individual interests and career goals. Psychological science graduates have the skills and tools they need to be successful in a variety of challenging careers in mental health, business, and industry. Students will also be prepared for advanced graduate study.

Special opportunities for our students: Students may have the opportunity to conduct research with faculty and present it at international, national, or regional conferences. Honors in psychological science can be earned by students who conduct research with a faculty member and meet the academic qualifications. Students who meet the criteria can be admitted into the NKU chapter of Psi Chi, the international honor society in psychology. Any student at the university may join the Psychology Club. These organizations are for students who want to become more involved with the Department of Psychological Science and with the field of psychology in general. They offer a mix of educational, service, and social activities to enhance the academic experience of the psychological science student. The department also facilitates student participation in practicum experiences.

Honors in Psychology
The Honors in Psychology (HIP) program is designed to provide an enhanced learning experience for outstanding psychological science undergraduates. Each HIP student will collaborate with a faculty mentor to design, conduct, analyze, document, and present an original empirical study in a two-semester sequence. In the process, students should develop or refine a variety of skills that will be useful in graduate school and their future careers.

To be eligible for the HIP program, students must have (a) a declared major in psychological science; (b) a minimum of 45 earned credit hours; (c) a minimum overall GPA of 3.5; (d) at least two semesters remaining prior to graduation; and (e) a minimum grade of B in PSY 100, STA 205, PSY 210, and PSY 210L. Students who are currently enrolled in PSY 210 and PSY 210L at the time of application may be admitted provisionally to HIP, but they may not begin the HIP research project until these courses are completed with the required minimum grade in each. HIP students are not required to participate in the university honors program. However, HIP students who are enrolled in the honors program may, with the permission of the honors director, use the HIP project as an honors capstone experience. Final admission into HIP depends on students identifying a psychological science faculty mentor who agrees to work with them on their project. This agreement requires a written contract signed by the student, faculty mentor, HIP coordinator, and chair of the Department of Psychological Science, and registration for 3 credit hours in PSY 497 (Honors Project in Psychology) and HNR 490 (if the student plans to use the project in partial fulfillment of the requirements of the honors minor) for two semesters. Contact the Department of Psychological Science for more detailed information about Honors Psychology.

Special graduation requirements:
1. To graduate, students majoring in psychological science must have a grade of C- or better in all courses applied toward certification of the major or minor, as well as an overall 2.00 GPA in the discipline. This includes courses listed below for tracks A and B on each of the two degree programs.
2. Psychological science majors are required to participate in a standardized assessment test given by the department prior to graduating. This is in addition to the university’s graduation requirements.
3. Transfer students must complete at least half of their required coursework in psychological science at NKU.

Psychological Science Majors

Bachelor of Arts and Bachelor of Science with a major in Psychological Science
The psychological science major is designed to provide students with flexibility in the selection of courses to meet their individual interests and career goals. Students must meet with a psychological science faculty advisor during the first semester following the declaration of psychological science as their major to design a program of coursework based on their individual needs. All students must meet with a faculty advisor in subsequent semesters for assistance in career planning and course selections to meet degree requirements. For students planning to pursue graduate study in psychology, the department strongly recommends a broad and balanced program of applied and theoretical courses with careful planning to meet the requirements for admission to graduate schools in psychology. In addition, such students are encouraged to take more than the minimum number of required courses, including advanced courses that involve the opportunity for independent or supervised research. The department offers a variety of special topics (PSY 494) classes. Recent topics have included "Image of Psychology in Film," "Drug Policy," "Psychology of Religion," and "Neuroscience Seminar." Students should consult the schedule of classes each semester for information about available special topics classes.

All psychological science majors must complete the requirements listed below for the major plus the additional credit hours required for either the Bachelor of Arts or the Bachelor of Science degree.

Degree Requirements: B.A. and B.S. – Psychological Science

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 100 Introduction to Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Science – Additional Requirements

Students who wish to complete the requirements for the Bachelor of Science in psychological science must complete either track A or B listed below:

<table>
<thead>
<tr>
<th>Track</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td></td>
</tr>
</tbody>
</table>

**Track A**

A minimum of 6 credit hours in the same foreign language or its equivalent. This requirement is in addition to current general education requirements, so students cannot use these foreign language courses to meet the Foundation of Knowledge Culture and Creativity requirement.

**Track B**

Successful completion of 3 credit hours in a study-abroad program approved by the NKU Office of Education Abroad. The course does not have to be in psychology. If the study abroad course is in psychology, then it may also count as elective for the major (included in the 13 hours of elective credits).

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Psychological Science Minor

**Minor in Psychological Science**

The minor requires 24 credit hours in psychological science including "PSY 100: Introduction to Psychology" and any 21 additional credit hours in psychological science.
**Department of Sociology, Anthropology, and Philosophy**

**Location:** Landrum Academic Center 217C  
**Telephone:** 859-572-5259  
**Fax:** 859-572-6086  
**Email Addresses:**  
  - anthropology@nku.edu  
  - archaeology@nku.edu  
  - philosophy@nku.edu  
  - sociology@nku.edu  
**Web Address:** http://sap.nku.edu  
**Department Chair:** Sharyn Jones  
**Other Key Personnel:**  
  - Department Coordinator: Mindy Berry

The Department of Sociology, Anthropology, and Philosophy is a multidisciplinary department that houses its namesake programs as well as aging and society, ancient civilizations, archaeology, Celtic studies, Native American studies, and religious studies.

**Sociology Programs**

**Location:** Landrum Academic Center 217C  
**Telephone:** 859-572-5259  
**Fax:** 859-572-6086  
**Email Address:** sociology@nku.edu  
**Web Address:** http://sap.nku.edu  
**Sociology Coordinator:** Joan Ferrante  
**Aging and Society Coordinator:** Boni Li

**Full-Time Faculty:** Joan Ferrante, Nicole Grant, Kris Hehn, Boni Li, J. Robert Lilly, Jaime McCauley, Kristie Vise

**Undergraduate Programs**

**Major:**  
  - Bachelor of Science  
  - Sociology  
  - Criminology Track  
  - General Sociology Track  
  - Society, Environment and Technology Track

**Minors:**  
  - Aging and Society  
  - Sociology

**Thinking about the discipline:** The mission of the sociology program is to provide undergraduate students with the conceptual and applied skills to understand society and how social interactions and human activities are organized and structured. Sociology offers a perspective and set of skills that develop and enhance students’ abilities to observe and think critically about their own and other societies, to become more sensitive to behavioral and value differences among peoples, and to succeed in an information and knowledge economy. Sociology is also a discipline that welcomes and draws upon insights from any discipline. The sociology program mentors students to think of college as a time for engaging in experiences and developing skills that position them for success in an ever-changing labor market of career possibilities.

The program offers a major in sociology leading to the Bachelor of Science. There are six broad career areas that students of sociology may choose to enter: nonprofit, government, business, education/continuing education, graduate school, and self-employment. Students can also minor or focus in sociology.

**Special opportunities for our students:** Among the many experiences in which students of sociology can participate are opportunities to do co-ops and internships, engage in summer service on Native American reservations in South Dakota, engage in class projects that address social issues, participate in research studies, and publish articles and essays collaboratively with faculty.

There are several vibrant student clubs associated with the sociology program: the Sociology Club, National Sociology Honor Society, First Nations Student Organization, and Kiksuya. Each year NKU’s sociology program presents the outstanding student in sociology award, outstanding student in applied sociology and outstanding student.

It is possible to earn a sociology major or minor taking a combination of online and evening classes and two (for minor) or three (for major) core courses face-to-face. In addition to the major and minor, there is also a focus that consists of any four sociology courses taken at the 300/400/500 level. It is possible to complete a focus in sociology online.

**Sociology Majors**

**Bachelor of Science with a major in Sociology**

The major in sociology requires the successful completion of 33 credit hours in the discipline, 18 of which must be at the 300/400 level. All majors must take introduction to sociology, a 3-credit hour course that counts for general education credit, but not toward the 33 hours needed to complete the sociology major.

Students majoring in sociology are required to complete a 21-credit-hour core and choose four electives or one course each from a list of four options. In addition, sociology majors must choose one of three tracks: general sociology; criminology; or society, environment, and technology. Consult with your advisor about which track fits best with academic and career goals. The choice of tracks affects choices of elective courses.

**You should also know:** A grade of at least a C (not C-) must be earned in the core courses, and a GPA of at least 2.00 must be earned in all courses that comprise the major.

All students majoring in sociology are required to prepare a portfolio for “SOC 494: Seminar: Sociology Senior Seminar.” The table of contents must specify the title of each entry and the course for which the assignment was written. The portfolio must include a letter discussing its contents. The contents must include five assignments that, when taken together, demonstrate that the student:

1. Understands and can apply the classical and contemporary theoretical perspectives in sociology;
2. Can analyze personal and societal issues using a sociological framework (theories, concepts, or perspectives);
3. Is able to articulate a meaningful research question, specify a design, collect relevant data to answer that question and discuss implications;
4. Has explored an issue related to socio-cultural diversity;
5. Can demonstrate a basic statistical literacy needed to read, critique and present research findings;
6. Sees their major as meaningfully informed by transdisciplinary and interdisciplinary dialogue and collaboration;

For specific course requirements and details, please consult the Department of Sociology, Anthropology, and Philosophy's official course catalog or website.
7. Has engaged in at least two experiential learning endeavors such as a co-op, study abroad, applied research, or community engagement that serve as resume items.

**Degree Requirements: B.S. – Sociology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 100</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Core Courses in Sociology**

Select two courses from the following:
- SOC 319 Managing and Analyzing Databases
- SOC 320 Social Research
- SOC 322 Qualitative Research Methods
- SOC 330 Classical Sociological Theory
- SOC 334 Contemporary Sociological Theory

**Select one course from the following:**
- SOC 303 Social Psychology
- SOC 305 Criminology

**Select one course from the following:**
- SOC 307 Social Stratification
- SOC 340 Population
- SOC 494 Seminar: Sociology Senior Seminar

**Total Core Credits**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 100</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 319</td>
<td>Managing and Analyzing Databases</td>
<td>3</td>
</tr>
<tr>
<td>SOC 320</td>
<td>Social Research</td>
<td>3</td>
</tr>
<tr>
<td>SOC 322</td>
<td>Qualitative Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>SOC 330</td>
<td>Classical Sociological Theory</td>
<td>3</td>
</tr>
<tr>
<td>SOC 334</td>
<td>Contemporary Sociological Theory</td>
<td>3</td>
</tr>
<tr>
<td>SOC 303</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 305</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 307</td>
<td>Social Stratification</td>
<td>3</td>
</tr>
<tr>
<td>SOC 340</td>
<td>Population</td>
<td>3</td>
</tr>
<tr>
<td>SOC 494</td>
<td>Seminar: Sociology Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Core Credits**

33

**Society, Environment, and Technology Track**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 357</td>
<td>Guns and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

**Criminology Track**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 364</td>
<td>Women and Men in Society</td>
<td>3</td>
</tr>
</tbody>
</table>

**People, Places, and the Lifecycle**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 350</td>
<td>Women and Crime</td>
<td>3</td>
</tr>
</tbody>
</table>

**Society and Social Change**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 415</td>
<td>Sociology of Planning and Development</td>
<td>3</td>
</tr>
</tbody>
</table>

**Social Issues and Social Change**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 415</td>
<td>Sociology of Planning and Development</td>
<td>3</td>
</tr>
</tbody>
</table>

**Minor in Sociology**

A grade of at least a C (not C-) must be earned in the core courses, and a GPA of at least 2.00 must be earned in all courses that comprise the minor.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 100</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Requirements for Minor: Sociology**

**Prerequisites**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 319</td>
<td>Managing and Analyzing Databases</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from the following:
- SOC 319 Managing and Analyzing Databases
- SOC 320 Social Research
- SOC 322 Qualitative Research Methods
The Greater Cincinnati area.

private college or university within the entire commonwealth of Kentucky and each spring, it sponsors an anthropology career opportunities to do anthropology outside the classroom and develop résumé-worthy skills important in the job quest. Each fall, the anthropology program sponsors an anthropology graduate school workshop, and each spring, it sponsors an anthropology careers day. There are more than 100 anthropology majors at NKU, which is larger than at any public or private college or university within the entire commonwealth of Kentucky and the Greater Cincinnati area.

**Special opportunities for our students:** Among the many experiences in which anthropology majors and minors can participate are opportunities to go on archaeology digs, develop museum exhibits, do research with various peoples throughout the state and nation, and travel to places such as Belize, Thailand, Ireland, and Fiji.

There are several vibrant student clubs associated with the anthropology program at NKU: the Student Anthropology Society, Lambda Alpha National Anthropology Honor Society, First Nations Student Organization, Kiksuya, and Tuath an Ard Tire Ardaí: The Celtic Studies Club. Each year the anthropology program presents the outstanding student in anthropology award and the award for academic excellence in anthropology.

**You should also know:** Students must earn at least a C(2.00) in the core courses, and a C(2.00) average in all anthropology courses counting for the major.

**Anthropology Majors**

**Bachelor of Arts with a major in Anthropology**

**Degree Requirements: B.A. – Anthropology**

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

### Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 100</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 100H</td>
<td>Honors Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 110</td>
<td>Introduction to Archaeology</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL PREREQUISITE CREDITS: 6**

### Courses in Anthropology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 202</td>
<td>Introduction to Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 202L</td>
<td>Introduction to Physical Anthropology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ANT 210</td>
<td>Introduction to Archaeological Methods and Theory</td>
<td>3</td>
</tr>
<tr>
<td>ANT 275</td>
<td>Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANT 312</td>
<td>Social Organization</td>
<td>3</td>
</tr>
<tr>
<td>ANT 328</td>
<td>Contemporary Issues in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 401</td>
<td>Culture Theory</td>
<td>3</td>
</tr>
<tr>
<td>ANT 410</td>
<td>Archaeological Theory</td>
<td>3</td>
</tr>
<tr>
<td>ANT 480</td>
<td>Anthropology Capstone</td>
<td>0</td>
</tr>
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</table>

**TOPICAL — select two courses from the following, at least one of which must be 300 level:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ANT 114</td>
<td>Great Archaeological Sites</td>
</tr>
<tr>
<td>ANT 201</td>
<td>World Cultures</td>
</tr>
<tr>
<td>ANT 231</td>
<td>Modern American Indians</td>
</tr>
<tr>
<td>ANT 301</td>
<td>World Patterns of Race and Ethnicity</td>
</tr>
<tr>
<td>ANT 311</td>
<td>Museums in Contemporary Society</td>
</tr>
<tr>
<td>ANT 318</td>
<td>Prehistoric Ecology</td>
</tr>
<tr>
<td>ANT 320</td>
<td>Religion and Culture</td>
</tr>
<tr>
<td>ANT 321</td>
<td>Medical Anthropology</td>
</tr>
<tr>
<td>ANT 330</td>
<td>Women, Gender, and Culture</td>
</tr>
<tr>
<td>ANT 331</td>
<td>Women in Prehistory</td>
</tr>
<tr>
<td>ANT 336</td>
<td>Historical Archaeology</td>
</tr>
<tr>
<td>ANT 345</td>
<td>Environmental Anthropology</td>
</tr>
<tr>
<td>ANT 350</td>
<td>North American Archaeology</td>
</tr>
<tr>
<td>ANT 352</td>
<td>Archaeology of Mesoamerica</td>
</tr>
<tr>
<td>ANT 358</td>
<td>Art and Culture</td>
</tr>
</tbody>
</table>
ANT 370 Celtic Europe  
ANT 371 Psychological Anthropology  
ANT 372 Peasant Societies  
ANT 374 Celtic and Viking Archaeology  
ANT 375 Anthropology of Aging  
ANT 380 Origins of Civilization  
ANT 381 European Archaeology  
ANT 382 Visual Anthropology  
ANT 386 Economy, Wealth and Culture  
ANT 392 Research: Archaeology  
ANT 394 Topics: Anthropology

Ethnographic – select two courses from the following, at least one of which must be 300 level:

- ANT 230 North American Indians  
- ANT 245 Peoples of Latin America and the Caribbean  
- ANT 270 Native Australia and Oceania  
- ANT 309 Peoples of Africa  
- ANT 360 Mesoamerican Indians  
- ANT 385 Peoples of East and Southeast Asia

Field Methods – select one course from the following:

- ANT 396 Museum Internship  
- ANT 308 Cultural Resource Management  
- ANT 315 Archaeological Excavation Methods  
- ANT 325 Applied Anthropology  
- ANT 340 Ethnographic Methods and Research  
- ANT 365 Ethnographic Field Methods

Laboratory Methods – select one course from the following:

- ANT 307 Museum Methods  
- ANT 342 Quantitative Methods in Anthropology  
- ANT 355 Archaeology Laboratory Analysis

**TOTAL CREDITS 37**

**Anthropology Minors**

**Minor in Anthropology**

<table>
<thead>
<tr>
<th>Requirements for Minor: Anthropology</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANT 100 Introduction to Cultural Anthropology</td>
<td>3</td>
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<tr>
<td>ANT 100H Honors Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 110 Introduction to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 202 Introduction to Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 202L Introduction to Physical Anthropology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ANT 210 Introduction to Archaeological Methods and Theory</td>
<td>3</td>
</tr>
<tr>
<td>ANT 275 Language and Culture</td>
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</tr>
<tr>
<td>Select two 300-400 level ANT courses</td>
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</tr>
</tbody>
</table>

**TOTAL CREDITS 22**

**Minor in Archaeology**

Archaeology is the study of past peoples’ ways of life through the excavation and analysis of artifacts. By studying past societies and cultures, archaeology explores the many avenues throughout time of what it means to be human. The archaeology minor is housed within the anthropology program.

Students who graduate with an archaeology minor are prepared both for career opportunities and for graduate work in anthropology. Because an archaeology focus is already available within the anthropology major, anthropology majors may not minor in archaeology.

NKU provides students with opportunities to do archaeology outside the classroom and develop résumé-worthy skills important in the job quest.

Among the many experiences in which archaeology minors can participate are opportunities to go on archaeological digs, do laboratory analysis, develop museum exhibits, and work for local archaeology companies.

<table>
<thead>
<tr>
<th>Requirements for Minor: Archaeology</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 100 Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 110 Introduction to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 210 Introduction to Archaeological Methods and Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from the following:

- ANT 307 Museum Methods  
- ANT 315 Archaeological Excavation Methods  
- ANT 355 Archaeology Laboratory Analysis

Select three courses from the following:

- ANT 114 Great Archaeological Sites  
- ANT 307 Museum Methods (if not used as methods course)  
- ANT 315 Archaeological Excavation Methods (if not used as methods course)  
- ANT 318 Prehistoric Ecology  
- ANT 331 Women in Prehistory | 9       |
| - ANT 336 Historical Archaeology | 6       |
| - ANT 350 North American Archaeology | 3       |
| - ANT 352 Archaeology of Mesoamerica | 3       |
| - ANT 355 Archaeology Laboratory Analysis (if not used as methods course) | 3       |
| - ANT 374 Celtic and Viking Archaeology | 3       |
| - ANT 380 Origins of Civilization | 3       |
| - ANT 392 Research: Archaeology (up to 3 credit hours) | 3       |
| - ANT 410 Archaeological Theory | 3       |
| - ANT 515 Advanced Archaeological Excavation Methods | 3       |

**TOTAL CREDITS 21**

**Philosophy Programs**

**Location**: Landrum Academic Center 217C  
**Telephone**: 859-572-5259  
**Fax**: 859-572-6086  
**Email Address**: philosophy@nku.edu  
**Web Address**: http://philosophy.nku.edu  
**Program Coordinator**: Augustine Frimpong-Mansoh  
**Full-Time Faculty**: Gary Blahnik, Yaw Frimpong-Mansoh, Rudy Gamb, Nancy Hancock, Dennis Miller, Terry Pence  

**Undergraduate Programs**

**Major**: Bachelor of Arts  
**Philosophy**  
**Minors**: Applied Philosophy  
**Philosophy**  
**Interdisciplinary Minor**: (see interdisciplinary section of catalog)  
**Religious Studies**

**Thinking about the discipline**: Philosophy seeks answers to fundamental questions about human existence and examines in a reasoned and systematic way basic questions about the values and concepts central to understanding of ourselves and the world around us. Through careful and critical reflection, philosophers seek answers to questions such as: a) What is the nature of the good, and what is the rational thing to do? (Ethics); b) What is the nature of reality? Does God exist? Do we have free will? What is knowledge and what distinguishes it from mere belief and opinion? (Metaphysics and Epistemology); c) How should society be organized? What is the basis of
political obligation? What is the nature and aim of law? (Politics and Law). In pursuing such fundamental questions about the world and human experience, philosophy prepares students to acquire conceptual and applied skills essential to adapting to career possibilities and pursuing a meaningful life. They include essential intellectual and career skills such as critical and creative thinking, effective written and oral communication, principled ethical evaluation, a respectful understanding of diverse perspectives, and an ability to analyze and solve complex real-world problems. These interdisciplinary skills integrate and transcend specific and separate discipline, profession or career; they are requisite for information processing, analysis, synthesises, and application for an informed and efficient decision-making in career planning and choices.

NKU offers a bachelor’s degree in philosophy designed to meet the needs of students who want to pursue any career of their choice. For example, the interdisciplinary transferable skills which students acquire through the study of philosophy prepare them suitably to pursue successful careers in law (and in para-legal professions), education, health care, information and communication technology, ethics consulting, journalism, publishing, politics and public policy, public relations, fundraising and nonprofit work, religion and ministry, business and management, and architecture. As innovative creative thinkers, philosophy students tend also to create and manage their own businesses and services. Few disciplines can boast of contributing to such diverse pursuits! It’s not for nothing then that The London Times recently called philosophy the “ultimate transferable work skill.” This observation seems to be confirmed by a survey of employers conducted recently by the Hart Research Associates on behalf of the Association of American Colleges and Universities (2013). The survey reveals that “Employers are highly focused on innovation as critical to the success of their companies and they report that the challenges their employees face today are more complex and require a boarder skill set than in the past.” Notably, the survey indicates that employers prioritize a job candidate’s demonstrated capacity for “critical thinking, complex problem-solving, written and oral communication, and applied knowledge in real-world settings” when making hiring decisions. This is one of the distinctive strengths, and key benefits, of studying philosophy. Whereas the knowledge learned in other disciplines may be superseded by future discoveries or made obsolete by changes of circumstances, the general transferable skills (e.g. the ability of critical thinking) acquired from studying philosophy do not become devalued over time. On the contrary, the interdisciplinary skills are invaluable when new situations occur. It is not surprising then that philosophy majors gain employment on graduation at higher than average rates; rank highly in median mid-career salary; consistently score at or near the top on admissions tests like the LSAT and GMAT; earn entrance to medical school at a higher rate than all other majors, including chemistry and biology; and, more generally, enjoy a well-earned reputation for clear and rigorous thinking. While the best reason to major in philosophy is because it interests you, that choice turns out to be an excellent career move, too.

**Special opportunities for our students:** The philosophy program at NKU is well-known for a delivery of distinctive academic programs and for dedicated faculty that effectively and efficiently prepare outstanding graduates for success in a fast-growing technology-driven information workplace, economy, and global society. What makes the philosophy program special is that philosophy courses remain “up close and personal.” These small classes help students to participate in the study of questions of philosophical importance, hone writing and analytical skills, and receive more attention from their professors. Students also have the opportunity to participate in intercollegiate competition in the ethics bowl and become a member of the national honor society in philosophy, Phi Sigma Tau. A student philosophy club is active, and the program offers monthly events like a philosophers’ café where issues of contemporary interest are raised in a public forum, and a film and philosophy series where feature films with philosophical themes are screened and discussed. Each year NKU’s philosophy program presents the outstanding senior in philosophy award.

**You should also know:** At least 20 percent of the total required hours must be taken at NKU. Students must make a C- or better in all courses chosen to meet the core requirements.

**Philosophy Major**

**Bachelor of Arts with a major in Philosophy**

The major in philosophy requires a total of at least 30 credit hours, six required core classes (18 credit hours) and a course from the perspectives category (3 credit hours). At least 18 credit hours must be 300 level or above. No more than 3 credit hours at the 100 level will count toward the required hours. Students must make a C- or better in all courses. At least 20 percent of the total required hours must be taken at NKU.

**Degree Requirements: B.A. – Philosophy**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 265 Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHI 280 History of Classical and Medieval Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHI 285 History of Modern and Contemporary Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHI 305 Existentialism</td>
<td>3</td>
</tr>
<tr>
<td>PHI 315 Knowledge and Reality</td>
<td>3</td>
</tr>
<tr>
<td>PHI 375 Ethical Theory</td>
<td>3</td>
</tr>
<tr>
<td>Diverse Philosophical Perspectives – select at least one course from the following:</td>
<td></td>
</tr>
<tr>
<td>PHI 304 Zen</td>
<td></td>
</tr>
<tr>
<td>PHI 312 Eastern Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHI 309 Global Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHI 311 Philosophy of Women</td>
<td></td>
</tr>
<tr>
<td>PHI 324 Africana Philosophy</td>
<td></td>
</tr>
<tr>
<td>Select three PHI courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td>30</td>
</tr>
</tbody>
</table>

**Philosophy Minors**

**Minors in Philosophy**

**Minor in Applied Philosophy**

The minor in philosophy requires 21 credit hours of PHI classes with at least 6 credit hours at the 300 level or above. Students must make a C- or better in all courses.

The minor in applied philosophy requires 21 credit hours of PHI classes with at least six credit hours at the 300 level or above and must include “PHI 396: Internship: Applied Philosophy.” Students must make a C- or better in all courses.
Department of Theatre and Dance

**Location:** Fine Arts Center 205  
**Telephone:** 859-572-6362  
**Fax:** 859-572-6057

**Email Addresses:**  
Dance – dance@nku.edu  
Theatre – theatre@nku.edu  
Theatre and Dance Box Office – boxoffice@nku.edu

**Web Address:** http://theatre.nku.edu

**Department Chair:** Kenneth Jones

**Other Key Personnel:**  
Assistant Chair: Michael W. Hatton  
Fine Arts Manager: Tyler Gabbard  
Box Office Manager: Sue Bolger  
Technical Director: Rob Kerby  
Scene Shop: Kevin Havlin  
Costume Shop Manager: Jeff Shearer  
Administrative Assistant: Sandy Davis

**Full-Time Faculty:** Tracey Bonner, Heather Britt, Ronnie Chamberlain, Corrie Danielew, Sandra Forman, Daryl L. Harris, Michael W. Hatton, Christine Jones, Kenneth Jones, Robert Kerby, Michael E. King, Sue Ott Rowlands, Terry D. Powell, Brian Robertson, Ronald A. Shaw, Damon Stevens, Jamey Strawn

**Undergraduate Programs:**

**Majors:**  
Bachelor of Arts  
Theatre  
Theatre in World Cultures  
Bachelor of Fine Arts  
Theatre Performance  
Acting Track  
Dance Track  
Musical Theatre Track  
Playwriting Track  
Theatre Design or Technology  
Theatre Design or Technology Track  
Rock and Roll/Concert Technology Track  
Stage Management

**Minors:**  
Dance  
Theatre

**Thinking about the discipline:** The NKU Department of Theatre and Dance is a student-centered program whose focus is on undergraduate training. The department offers a variety of degrees that will suit each student’s unique career goals. In addition, the department provides a variety of performance and production experiences that will train students to successfully enter a theatre profession.

Students who have graduated from the program are currently at work in Broadway shows, national tours, regional theatres, cruise ships, Disney productions, Cirque du Soleil, television, and feature films. Students have also found success in careers outside of theatre and are working in K-12 education, law careers, business, marketing, and others.

The skills learned with a degree in theatre and dance help students maximize careers in which interaction with the public is necessary.

**Special opportunities for our students:** NKU offers students the opportunity to establish internships with several local professional theatre and performing arts groups as well as I.A.T.S.E. (stagehand union Local 5).

The NKU Department of Theatre and Dance offers scholarships to students based on auditions as well as GPA:

- **Incoming student scholarships** – The theatre department endorses and foremost to recruit gifted students into the department. In early December, theatre faculty audition high school seniors and transfer students and then rank them according to four major criteria: talent, academic achievement, growth potential, and likely contributions to the program. Scholarships for top candidates may become available at any time through the following December. The faculty present awards to alternate list candidates or to qualified students already enrolled at any level with an overall 2.75 GPA.

- **Currently enrolled student scholarships** – To be considered for a scholarship, currently enrolled students with an overall 2.75 GPA must maintain good academic standing as detailed below, high visibility in the production program, and consistent contributions to departmental activities. To apply, complete the online application.

The Department of Theatre and Dance offers performance opportunities for NKU students with a full season of theatrical productions including musicals, dance, dramas, comedies, and classical plays. Auditions for these productions are open to any student enrolled at NKU. The theatre department is dedicated to creating professional-quality theatrical productions to help students build confidence, strengthen résumés, and prepare for careers after graduation. While some graduates may go on to careers in performance areas, others may use the skills they developed through performance to pursue jobs not directly related to the performing arts.

The department also sponsors a number of campus/community/recruitment outreach programs. The Dance Troupe, the Comedy Improv Troupe, the Musical Theatre Tour Troupe, Children’s Theatre/Puppetry Troupe, and the freshman-only Broadway Chorus Tour Troupe may be taken for up to 6 credit hours. Tour troupes hold auditions as a condition of acceptance into a troupe. Tour troupes members must commit to a one-year term or arrange a special one-semester commitment with the supervising faculty member. A particular troupe might not operate in every academic year.

**Special admission requirements:** Bachelor of Fine Arts candidates must maintain a 2.75 GPA in theatre and dance coursework as well as an overall 2.50 GPA for all NKU coursework. Students falling below the required GPA will go on probation for one semester. Students on probation must achieve the required GPA minimums in order to be removed from probation. Failure to achieve the minimum GPA will result in the student being removed from the B.F.A. program.

B.F.A. students receiving a grade of D or F in theatre and dance B.F.A. courses will be removed from the B.F.A. program. Students removed for a D can petition the B.F.A. review committee to re-take the course and re-enter the B.F.A. program. (This appeal should be made within 30 days from receiving the D.) Students removed for an F cannot re-enter the B.F.A. program for any reason.

**Theatre and Dance Course Groups**

All theatre (TAR) courses are grouped and numbered in the following manner:

- **Group I** – 10s Acting, 20s Musical Theatre
- **Group II** – 40s Theatre History/Theory and Criticism
- **Group III** – 50s Theatre Literature
- **Group IV** – 60s Design and Technology
- **Group V** – 70s Directing, Management, Creative Dramatics
- **Group VI** – 80s Playwriting
- **Group VII** – 90s Production Credit and Independent Study
All dance (DAN) technique classes are considered Group I.

**Course Offerings**

### Group I (Performance)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAR 110</td>
<td>Acting I</td>
<td>3</td>
</tr>
<tr>
<td>TAR 114</td>
<td>Voice Development for the Actor I</td>
<td>3</td>
</tr>
<tr>
<td>TAR 118</td>
<td>Stage Makeup</td>
<td>3</td>
</tr>
<tr>
<td>TAR 130</td>
<td>Musical Skills for the Musical Theatre I</td>
<td>3</td>
</tr>
<tr>
<td>TAR 210</td>
<td>Acting II</td>
<td>3</td>
</tr>
<tr>
<td>TAR 211</td>
<td>Special Topics in Theatre</td>
<td>1-3</td>
</tr>
<tr>
<td>TAR 213</td>
<td>Stage Combat</td>
<td>3</td>
</tr>
<tr>
<td>TAR 225</td>
<td>Musical Theatre Performance I</td>
<td>3</td>
</tr>
<tr>
<td>TAR 230</td>
<td>Musical Skills for the Musical Theatre II</td>
<td>3</td>
</tr>
<tr>
<td>TAR 235</td>
<td>Vocal Techniques for the Actor I</td>
<td>1</td>
</tr>
<tr>
<td>TAR 310</td>
<td>Acting III</td>
<td>3</td>
</tr>
<tr>
<td>TAR 311</td>
<td>Auditions</td>
<td>3</td>
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<tr>
<td>TAR 312</td>
<td>Voice Development for the Actor II</td>
<td>3</td>
</tr>
<tr>
<td>TAR 316</td>
<td>Acting Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>TAR 325</td>
<td>Musical Theatre Performance II</td>
<td>3</td>
</tr>
<tr>
<td>TAR 335</td>
<td>Vocal Techniques for the Singing Actor II</td>
<td>3</td>
</tr>
<tr>
<td>TAR 410</td>
<td>Styles of Acting</td>
<td>3</td>
</tr>
<tr>
<td>TAR 411</td>
<td>Special Problems: Theatre Acting</td>
<td>3-9</td>
</tr>
<tr>
<td>TAR 412</td>
<td>Internship: Professional Theatre</td>
<td>3-6</td>
</tr>
<tr>
<td>TAR 414</td>
<td>NKU Tour Troupe</td>
<td>2</td>
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<tr>
<td>TAR 415</td>
<td>The One Person Show</td>
<td>3</td>
</tr>
<tr>
<td>TAR 416</td>
<td>Acting Seminar II</td>
<td>3</td>
</tr>
<tr>
<td>TAR 417</td>
<td>Acting Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>TAR 418</td>
<td>Process and Production</td>
<td>4-8</td>
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<tr>
<td>DAN 120</td>
<td>Ballet I</td>
<td>3</td>
</tr>
<tr>
<td>DAN 220</td>
<td>Ballet II</td>
<td>3</td>
</tr>
<tr>
<td>DAN 221</td>
<td>Modern Dance I</td>
<td>3</td>
</tr>
<tr>
<td>DAN 222</td>
<td>Jazz Dance I</td>
<td>3</td>
</tr>
<tr>
<td>DAN 224</td>
<td>Tap Dance I</td>
<td>3</td>
</tr>
<tr>
<td>DAN 228</td>
<td>Foundation Seminar</td>
<td>2</td>
</tr>
<tr>
<td>DAN 227</td>
<td>Special Topics in Dance</td>
<td>2-6</td>
</tr>
<tr>
<td>DAN 321</td>
<td>Modern Dance II</td>
<td>3</td>
</tr>
<tr>
<td>DAN 322</td>
<td>Jazz Dance II</td>
<td>3</td>
</tr>
<tr>
<td>DAN 323</td>
<td>Physiology of Dance</td>
<td>3</td>
</tr>
<tr>
<td>DAN 324</td>
<td>Tap Dance II</td>
<td>3</td>
</tr>
<tr>
<td>DAN 326</td>
<td>Advanced Dance Seminar I</td>
<td>2-6</td>
</tr>
<tr>
<td>DAN 375</td>
<td>Choreography</td>
<td>3</td>
</tr>
<tr>
<td>DAN 426</td>
<td>Advanced Dance Seminar II</td>
<td>2-6</td>
</tr>
<tr>
<td>DAN 428</td>
<td>Special Problems in Dance</td>
<td>3-9</td>
</tr>
</tbody>
</table>

### Group II (History, Theory, and Criticism)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TAR 343</td>
<td>Costume History</td>
<td>3</td>
</tr>
<tr>
<td>TAR 346</td>
<td>Theatre History</td>
<td>3</td>
</tr>
<tr>
<td>TAR 348</td>
<td>Theatre History and Society</td>
<td>3</td>
</tr>
<tr>
<td>DAN 427</td>
<td>Dance History</td>
<td>3</td>
</tr>
<tr>
<td>TAR 441</td>
<td>Special Problems in Theatre and Criticism</td>
<td>1-9</td>
</tr>
<tr>
<td>TAR 442</td>
<td>Dramatic Theory and Criticism</td>
<td>3</td>
</tr>
<tr>
<td>TAR 443</td>
<td>History of Costume and Decor II</td>
<td>3</td>
</tr>
<tr>
<td>TAR 446</td>
<td>History of the Theatre and Dramatic Literature III</td>
<td>3</td>
</tr>
</tbody>
</table>

### Group III (Theatre Literature)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAR 340</td>
<td>Playscript Analysis</td>
<td>3</td>
</tr>
<tr>
<td>TAR 347</td>
<td>Dramatic Literature</td>
<td>3</td>
</tr>
<tr>
<td>TAR 355</td>
<td>Musical Theatre Literature I</td>
<td>3</td>
</tr>
<tr>
<td>TAR 452</td>
<td>Special Problems: Theatre Literature</td>
<td>3-9</td>
</tr>
<tr>
<td>TAR 455</td>
<td>Musical Theatre Literature II</td>
<td>3</td>
</tr>
</tbody>
</table>

### Group IV (Theatre Design and Technology)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAR 211</td>
<td>Special Topics in Theatre</td>
<td>1-3</td>
</tr>
<tr>
<td>TAR 160</td>
<td>Stagecraft</td>
<td>2</td>
</tr>
<tr>
<td>TAR 160L</td>
<td>Stagecraft Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>TAR 280</td>
<td>Lighting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>TAR 262</td>
<td>Costume Construction</td>
<td>2</td>
</tr>
<tr>
<td>TAR 262L</td>
<td>Costume Construction Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>TAR 265</td>
<td>Fundamentals of Theatrical Design</td>
<td>3</td>
</tr>
<tr>
<td>TAR 277</td>
<td>Fundamentals of Sound Design</td>
<td>3</td>
</tr>
<tr>
<td>TAR 334</td>
<td>Costume History</td>
<td>3</td>
</tr>
<tr>
<td>TAR 360</td>
<td>Scene Design I</td>
<td>3</td>
</tr>
<tr>
<td>TAR 361</td>
<td>Design and Construction of Stage Properties</td>
<td>3</td>
</tr>
<tr>
<td>TAR 362</td>
<td>Drafting for the Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TAR 363</td>
<td>Lighting Design</td>
<td>3</td>
</tr>
<tr>
<td>TAR 364</td>
<td>Computer Graphics for the Stage</td>
<td>3</td>
</tr>
<tr>
<td>TAR 365</td>
<td>Costume Crafts</td>
<td>3</td>
</tr>
<tr>
<td>TAR 366</td>
<td>Costume Design I</td>
<td>3</td>
</tr>
<tr>
<td>TAR 367</td>
<td>Stagecraft II</td>
<td>3</td>
</tr>
<tr>
<td>TAR 368</td>
<td>Theatrical Rendering and Model Building</td>
<td>3</td>
</tr>
<tr>
<td>TAR 377</td>
<td>Sound Design</td>
<td>3</td>
</tr>
<tr>
<td>TAR 461</td>
<td>Scene Painting</td>
<td>3</td>
</tr>
<tr>
<td>TAR 464</td>
<td>Special Problems in Theatre Technology</td>
<td>3-9</td>
</tr>
<tr>
<td>TAR 466</td>
<td>Costume Construction II</td>
<td>3</td>
</tr>
</tbody>
</table>

### Group V (Directing, Management, and Creative Dramatics)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAR 370</td>
<td>Directing</td>
<td>3</td>
</tr>
<tr>
<td>TAR 371</td>
<td>Theatre Management</td>
<td>3</td>
</tr>
<tr>
<td>TAR 376</td>
<td>Stage Management</td>
<td>3</td>
</tr>
<tr>
<td>TAR 470</td>
<td>Directing II</td>
<td>3</td>
</tr>
<tr>
<td>TAR 471</td>
<td>Summer Dinner Theatre</td>
<td>3-6</td>
</tr>
<tr>
<td>TAR 477</td>
<td>The Business of Theatre</td>
<td>1</td>
</tr>
<tr>
<td>DAN 375</td>
<td>Choreography</td>
<td>3</td>
</tr>
</tbody>
</table>

### Group VI (Playwriting and Reviewing)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAR 380</td>
<td>Playwriting</td>
<td>3</td>
</tr>
<tr>
<td>TAR 481</td>
<td>Special Problems in Theatre: Playwriting/Criticism</td>
<td>3-9</td>
</tr>
<tr>
<td>TAR 482</td>
<td>Screenwriting</td>
<td>3</td>
</tr>
</tbody>
</table>

### Group VII (Production Hours and Independent Study)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAR 390, 391, 490, 491</td>
<td>Production Credits (1 credit hour each)</td>
<td>1</td>
</tr>
<tr>
<td>TAR 495</td>
<td>Senior Project</td>
<td>1</td>
</tr>
<tr>
<td>TAR 496-499</td>
<td>Individual Studies in Theatre</td>
<td>1-6</td>
</tr>
</tbody>
</table>

**Theatre and Dance Majors**

**Bachelor of Arts with a major in Theatre**

This is a liberal arts-based degree ideal for the student who wishes to pursue multiple interests in theatre and dance.

**Degree Requirements: B.A. – Theatre**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAR 104 Introduction to NKU Theatre and Dance</td>
<td>1</td>
</tr>
<tr>
<td>TAR 110 Acting I</td>
<td>3</td>
</tr>
<tr>
<td>TAR 118 Stage Makeup</td>
<td>3</td>
</tr>
<tr>
<td>TAR 160 Stagecraft</td>
<td>2</td>
</tr>
<tr>
<td>TAR 160L Stagecraft Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>TAR 280 Lighting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>TAR 262 Costume Construction</td>
<td>2</td>
</tr>
<tr>
<td>TAR 262L Costume Construction Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>TAR 340 Playscript Analysis</td>
<td>3</td>
</tr>
<tr>
<td>TAR 346 Theatre History</td>
<td>3</td>
</tr>
</tbody>
</table>

118 NORTHERN KENTUCKY UNIVERSITY
Bachelor of Arts with a major in Theatre in World Cultures

Degree Requirements: B.A. – Theatre in World Cultures

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAR 104 Introduction to NKU Theatre and Dance</td>
<td>1</td>
</tr>
<tr>
<td>TAR 245 Introduction to Theatre in World Cultures</td>
<td>3</td>
</tr>
<tr>
<td>TAR 348 Theatre History and Society</td>
<td>3</td>
</tr>
<tr>
<td>TAR 400 Theatre in World Cultures Styles Studio</td>
<td>3</td>
</tr>
<tr>
<td>TAR 160 Stagecraft</td>
<td>2</td>
</tr>
<tr>
<td>TAR 160L Stagecraft Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>TAR 390, 391, 490, 491 Production Credits</td>
<td>3</td>
</tr>
</tbody>
</table>

Foreign language (may fulfill culture and creativity general education requirement) | 6       |
Study abroad (two opportunities outside student’s native culture) | 6       |
TAR 496 Theatre in World Cultures Capstone | 3       |
Select 15 TAR/DAN credit hours or required theatre in world cultures electives | 15      |

**TOTAL CREDITS** 46

A minor or an area of focus is required.

Bachelor of Fine Arts

The B.F.A. is a more intensive program of study for the potential professional. Acceptance into the B.F.A. program is earned through a process of application, interview, and audition (performers) or portfolio submission (design and technology, playwriting, and stage management). The B.F.A. requires active involvement in the department for a minimum of four semesters after acceptance into B.F.A. candidacy. Some exceptions to this residency rule may be made for transfer students.

The B.F.A. requires completion of a common core of courses. Performance students must also complete a track – the options are acting, dance, musical theatre, or playwriting. Design or technology students must complete a track – the options are design or technology, or rock and roll/concert technology. Stage management students complete a track in stage management.

A minor or focus is not required in the B.F.A.

Degree Requirements: B.F.A. – Theatre Performance

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAR 104 Introduction to NKU Theatre and Dance</td>
<td>1</td>
</tr>
<tr>
<td>TAR 110 Acting I</td>
<td>3</td>
</tr>
<tr>
<td>TAR 118 Stage Makeup</td>
<td>3</td>
</tr>
<tr>
<td>TAR 160 Stagecraft</td>
<td>2</td>
</tr>
<tr>
<td>TAR 160L Stagecraft Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>TAR 340 Playscript Analysis</td>
<td>3</td>
</tr>
<tr>
<td>TAR 346 Theatre History</td>
<td>3</td>
</tr>
<tr>
<td>TAR 347 Dramatic Literature</td>
<td>3</td>
</tr>
<tr>
<td>TAR 477 The Business of Theatre</td>
<td>1</td>
</tr>
<tr>
<td>TAR 495 Senior Project</td>
<td>1</td>
</tr>
<tr>
<td>TAR 390, 391, 490 Production Credits</td>
<td>3</td>
</tr>
<tr>
<td>Select 15 TAR/DAN credit hours or required theatre in world cultures electives</td>
<td>15</td>
</tr>
</tbody>
</table>

**TOTAL CORE CREDITS** 27

**TOTAL TRACK CREDITS** 66

Dance Track

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAN 120 Ballet I (or another approved dance course)</td>
<td>3</td>
</tr>
<tr>
<td>TAR 114 Voice Development for the Actor I</td>
<td>3</td>
</tr>
<tr>
<td>TAR 210 Acting II</td>
<td>3</td>
</tr>
<tr>
<td>TAR 225 Musical Theatre Performance I</td>
<td>3</td>
</tr>
<tr>
<td>TAR 310 Acting III</td>
<td>3</td>
</tr>
<tr>
<td>TAR 311 Auditions</td>
<td>3</td>
</tr>
<tr>
<td>TAR 312 Voice Development for the Actor II</td>
<td>3</td>
</tr>
<tr>
<td>TAR 314 Stage Dialects</td>
<td>3</td>
</tr>
<tr>
<td>TAR 370 Directing</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two courses from the following:

- TAR 315 Auditions
- TAR 415 The One-Person Show
- TAR 413 Acting Seminar II
- TAR 417 Acting Shakespeare

Select 6 TAR/DAN credit hours in groups I, II, III, IV, V, VI, VII | 6       |

**TOTAL TRACK CREDITS** 39

**Total Core Credits** 27

**TOTAL CREDITS** 66

Musical Theatre Track

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAR 114 Voice Development for the Actor I</td>
<td>3</td>
</tr>
</tbody>
</table>

(A may be substituted with TAR 312 Voice Development for the Actor II or a voice course at the 300 level or above)

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAR 130 Musical Skills for the Musical Theatre I</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 9 TAR/DAN credit hours from groups I, IV, V, VI | 9       |

**TOTAL TRACK CREDITS** 42

**Total Core Credits** 27

**TOTAL CREDITS** 69
### Core Courses

- **TAR 262/262L**: Costume Construction with Laboratory 9
- **TAR 277**: Fundamentals of Sound Design 3
- **TAR 368**: Theatrical Rendering and Model Building 3

### Foundations Series – select one course from the following:
- **TAR 343**: Costume History 3
- **TAR 362**: Drafting for the Theatre 3
- **TAR 367**: Stagecraft II 3

### Design Series – select three courses from the following:
- **TAR 360**: Scene Design I 3
- **TAR 363**: Lighting Design 3
- **TAR 366**: Costume Design I 3
- **TAR 377**: Sound Design 3

Select 12 TAR/DAN credit hours in area of interest 12

### Playwriting Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 308</td>
<td>Shakespeare I</td>
</tr>
<tr>
<td>ENG 309</td>
<td>Shakespeare II</td>
</tr>
<tr>
<td>TAR 370</td>
<td>Directing</td>
</tr>
<tr>
<td>TAR 380</td>
<td>Playwriting</td>
</tr>
<tr>
<td>TAR 422</td>
<td>Dramatic Theory and Criticism</td>
</tr>
<tr>
<td>TAR 481</td>
<td>Special Problems in Theatre: Playwriting/Criticism</td>
</tr>
<tr>
<td>TAR 482</td>
<td>Screenwriting</td>
</tr>
<tr>
<td>TAR 498</td>
<td>Individual Studies in Theatre</td>
</tr>
<tr>
<td>Select 6 TAR/DAN credit hours in groups I, II, III, IV, V, VI, VII</td>
<td>6</td>
</tr>
</tbody>
</table>

**TOTAL TRACK CREDITS 42**

### Degree Requirements – B.F.A. in Theatre Design or Technology

**TOTAL CORE CREDITS 27**

### Design or Technology Track

- **TAR 165**: Comparative Arts (fulfills one culture and creativity requirement in general education) 3
- **TAR 265**: Fundamentals of Theatrical Design 3
- **TAR 364**: Computer Graphics for the Stage 3

### Foundations Series – select three courses from the following:
- **TAR 260**: Lighting Fundamentals 3
- **TAR 363/262L**: Costume Construction and Lab 3
- **TAR 368**: Theatrical Rendering and Model Building 3

### Design Series – select one course from the following:
- **TAR 360**: Scene Design I 3
- **TAR 363**: Lighting Design 3
- **TAR 366**: Costume Design I 3
- **TAR 377**: Sound Design 3

**TOTAL TRACK CREDITS 42**

**TOTAL CREDITS 69**

### Rock and Roll/Concert Technology Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGT 110</td>
<td>Introduction to Engineering/Technology (this degree requirement will fulfill a general education requirement: scientific and quantitative inquiry category without lab)</td>
</tr>
<tr>
<td>TAR 265</td>
<td>Fundamentals of Theatrical Design</td>
</tr>
<tr>
<td>TAR 364</td>
<td>Computer Graphics for the Stage</td>
</tr>
<tr>
<td>TAR 464</td>
<td>Special Problems in Theatre Technology (one must be in rigging)</td>
</tr>
</tbody>
</table>

### Foundations Series – select one course from the following:
- **TAR 361**: Design and Construction of Stage Properties 3
- **TAR 362**: Drafting for the Theatre 3
- **TAR 367**: Stagecraft II 3

**TOTAL TRACK CREDITS 48**

**TOTAL CREDITS 75**

### Degree Requirements – B.F.A. in Stage Management

**TOTAL CORE CREDITS 27**

### Core Courses

- **TAR 104**: Introduction to NKU Theatre and Dance 1
- **TAR 110**: Acting I 3
- **TAR 118**: Stage Makeup 3
- **TAR 160**: Stagecraft 2
- **TAR 160L**: Stagecraft Laboratory 1
- **TAR 340**: Playscript Analysis 3
- **TAR 346**: Theatre History 3
- **TAR 347**: Dramatic Literature 3
- **TAR 477**: The Business of Theatre 1
- **TAR 495**: Senior Project 1

**TOTAL CREDITS 75**
### Theatre and Dance Minors

#### Minor in Dance

**Requirements for Minor: Dance**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DAN 120</td>
<td>3</td>
</tr>
<tr>
<td>DAN 220</td>
<td>3</td>
</tr>
<tr>
<td>DAN 221</td>
<td>3</td>
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<tr>
<td>DAN 222</td>
<td>3</td>
</tr>
<tr>
<td>DAN 224</td>
<td>3</td>
</tr>
<tr>
<td>DAN 323</td>
<td>3</td>
</tr>
<tr>
<td>DAN 321</td>
<td>3</td>
</tr>
<tr>
<td>DAN 375</td>
<td>3</td>
</tr>
<tr>
<td>DAN 427</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**: 24

#### Minor in Theatre

**Requirements for Minor: Theatre**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAR 111</td>
<td>3</td>
</tr>
<tr>
<td>TAR 110</td>
<td>2</td>
</tr>
<tr>
<td>TAR 160</td>
<td>2</td>
</tr>
<tr>
<td>TAR 160L</td>
<td>1</td>
</tr>
<tr>
<td>TAR 390, 391, 490, 491</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course in theatre history, theory/criticism, or literature from groups II or III

Select one course in theatre performance or design/technology from groups I or IV

Select three courses in groups I, II, III, IV, V, VI, or VII

**Total Credits**: 24

### Stage Management Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAR 130</td>
<td>3</td>
</tr>
<tr>
<td>TAR 265</td>
<td>3</td>
</tr>
<tr>
<td>TAR 370</td>
<td>3</td>
</tr>
<tr>
<td>TAR 371</td>
<td>3</td>
</tr>
<tr>
<td>TAR 376</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two courses from the following:

- TAR 260 Lighting Fundamentals
- TAR 262/262L Costume Construction with Laboratory
- TAR 277 Fundamentals of Sound Design

Select two courses from the following:

- CMST 220 Interpersonal Communication
- CMST 230 Small-Group Communication
- LDR 300 Foundations of Leadership

Select 15 TAR/DAN credit hours from groups I, II, III, IV, V, VI, VII. Recommended electives include:

- TAR 210 Acting II
- TAR 213 Stage Combat
- TAR 225 Musical Theatre Performance I
- TAR 362 Drafting for Theatre
- TAR 367 Stagecraft II
- DAN 120 Ballet I

First aid/CPR certification by outside accrediting organization

**Total Track Credits**: 42

**Total Core Credits**: 27

**Total Credits**: 69
Department of Visual Arts

**Location:** Fine Arts Center 312  
**Telephone:** 859-572-5421  
**Fax:** 859-572-6501  
**Email Address:** visualarts@nku.edu  
**Web Address:** http://art.nku.edu  
**Department Chair:** Thomas F. McGovern III  

**Other Key Personnel:**  
- Freshman Advisor: Candice van Loveren Geis  
- Department Coordinator: Michele Halley  
- Gallery Coordinator: David Knight  
- Sculpture/Ceramics Building Coordinator: Ben Huber

**Full-Time Faculty:** Matthew Albrighton, Kimberly Allen-Kattus, Nicholas Bonner, Maren Carpenter-Fearing, Ana England, Steven Finke, Barbara Houghton, Lisa Jameson, Andrea Knarr, Marc Leone, Julie Mader-Meersman, Brad McCombs, Thomas F. McGovern III, Kevin Muente, Hans Schellhas, Chris Smith, Paige Wideman, Rhonda Wolverton

**Undergraduate Programs:**

**Majors:**  
- Bachelor of Arts  
  - Studio Arts  
  - Applied Photography Track  
  - Art Education Track*  
  - Art History Track  
  - Pre-Art Therapy Track  
  - Studio Arts Track  
  - Visual Communication Design  
- Bachelor of Fine Arts  
- Studio Arts  
  - Art History Track  
  - Drawing Track  
  - Integrative Media Track  
  - New Media Art Track  
  - Painting Track  
  - Photography Track  
  - Printmaking Track  
  - Spatial Arts Track  
  - Spatial and New Media Arts Track  
  - Visual Communication Design  

*Students interested in the Art Education track should contact Professor Lisa Jameson at jameson1@nku.edu.

**Minors:**  
- Art: Studio Art  
- Art History  
- Spatial Arts  
- Studio Arts

**Thinking about the discipline:** Department of Visual Arts faculty are prepared to assist students in making informed decisions about their majors, career plans, and other concerns that develop during their undergraduate years. Students pursuing a career in fine arts can select a specific area of study from drawing, painting, printmaking, sculpture, ceramics, new media art, and photography or pursue a more generalized approach by taking courses from all the discipline areas. Students interested in the direct interface of art and industry should consider visual communication design or applied photography as a major. For those students who are attracted to the rich history and current trends in visual arts or are interested in criticism or museum work, the Department of Visual Arts offers a major in art history.

**Special opportunities for our students:** The Department of Visual Arts offers a variety of programs and educational enrichment experiences including: discipline-based art clubs such as the Art History Club, Sculpture and Ceramics Society, Next Generation Artists, League of Extraordinary Photographers, New Media Collective Printmaking Club and student chapters of the American Institute of Graphic Art and the National Art Education Association, numerous study-abroad opportunities, department scholarships, internships, and professional exhibition opportunities.

**Visual Arts Majors**

**Bachelor of Arts with a major in Studio Arts**

Students seeking a Bachelor of Arts degree in studio arts must complete the 15-credit-hour core plus one of the five tracks listed below for studio arts: applied photography, art education, art history, pre-art therapy, and studio arts.

**Degree Requirements: B.A. – Studio Arts**

<table>
<thead>
<tr>
<th>Core Courses in Studio Arts</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 131 Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 132 Two-Dimensional Studies in Visual Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 133 Three-Dimensional Studies in Visual Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 134 Four-Dimensional Studies and Color Theory*</td>
<td>3</td>
</tr>
<tr>
<td>ART 291W Advanced Writing/Artists**</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CORE CREDITS 15**

*ART 134 is not required for visual communication design students on the 2014 catalog and later.  
**ART 291W Advanced Writing/Artists fulfills the general education requirements for Written Communication II.

**Applied Photography Track**

| ARTH 100 History of Art: Renaissance through Modernism | 3 |
| ARTH 101 History of Art: Prehistoric through Gothic | 3 |
| ARTH 358 History of Photography | 3 |

Select one 300/400-level ARTH course 3

**Required studio courses:**

| ARTO 210 Photography I | 3 |
| ARTO 310 Photography II: Digital Techniques | 3 |
| ARTO 311 Photography III | 3 |
| ARTO 312 Introduction to Studio and Location | 3 |
| ART 317 Web and Social Media for Artists | 3 |
| ARTO 413 Advanced Location Photography | 3 |
| ARTO 414 Advanced Studio Photography | 3 |
| ARTO 415 Documentary Photography | 3 |

Select one course from the following to be taken prior to the end of sophomore year:

| ARTH 300 Art of the Book | 3 |
| ARTH 394 Special Topics in Art | 3 |
| ARTO 310 Drawing II | 3 |
| ARTR 272 Printmaking I | 3 |
| ARTR 373 Printmaking II | 3 |
| ARTR 374 Techniques in Printmaking | 3 |

Select one course from the following to be taken prior to the end of sophomore year:

| ARTH 394 Special Topics in Art | 3 |
| ARTO 240 Ceramics I | 3 |
| ARTM 350 Video, Installation, and Sound I | 3 |
### Art History Track
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 100</td>
<td>History of Art: Renaissance through Modernism</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 355</td>
<td>Art of the Twentieth Century</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 454</td>
<td>Art Now</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select three 300/400 ARTH courses</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Studio electives: Select three courses in ART, ARTC, ARTH, ARTM, ARTO, ARTP, ARTR, or ARTS(with a minimum of one 2D studio and one 3D studio)</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Additional requirements: two semesters or high school equivalent in Arabic, Chinese, French, German, Italian, Japanese, Latin, Russian, or Spanish</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Two electives in anthropology, history, philosophy, or religion, (consult with advisor to determine additional courses)</td>
<td>6</td>
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<tr>
<td></td>
<td><strong>TOTAL TRACK CREDITS</strong></td>
<td><strong>45</strong></td>
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<tr>
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<td>Total Core Credits</td>
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<tr>
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<td><strong>TOTAL CREDITS</strong></td>
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### Pre-Art Therapy Track
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<td>ARTH 100</td>
<td>History of Art: Renaissance through Modernism</td>
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</tr>
<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 454</td>
<td>Art Now</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one 300/400-level ARTH course</td>
<td>3</td>
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<tr>
<td></td>
<td>Required studio courses:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ARTP 230 Painting I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTO 210 Basic Photography</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTC 240 Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTS 262 Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTR 272 Introduction to Printmaking</td>
<td>3</td>
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<tr>
<td></td>
<td>ARTM 350 Video, Installation and Sound</td>
<td>3</td>
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<td></td>
<td>Studio electives: Select four 300/400-level courses in ART, ARTC, ARTH, ARTM, ARTD, ARTP, ARTS, or ARTS</td>
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### Studio Arts Track
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<td>ARTH 100</td>
<td>History of Art: Renaissance through Modernism</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 454</td>
<td>Art Now</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one 300/400-level ARTH course</td>
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<tr>
<td></td>
<td>Required studio courses:</td>
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<tr>
<td></td>
<td>ARTP 230 Painting I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTO 210 Basic Photography</td>
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</tr>
<tr>
<td></td>
<td>ARTC 240 Ceramics I</td>
<td>3</td>
</tr>
</tbody>
</table>

### Bachelor of Arts in Visual Communication Design

**Special admission requirements:** For admission to the Bachelor of Arts in visual communication design, students must complete the following courses to qualify for “ARTV 283: Graphic Design Admittance Review:”

- “ART 131: Drawing,”
- “ART 132: Two-Dimensional Studies in Visual Art,”
- “ART 133: Three-Dimensional Studies in Visual Art,”
- “ARTV 201: Introduction to Computer Graphics for Design,”
- “ARTG 215: Visual Communication Design,”
- “ARTV 217: Typography I.”

**Degree Requirements: B. A. – Visual Communication Design**

### Core Courses in Visual Communication Design
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 131</td>
<td>Basic Drawing</td>
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<tr>
<td>ART 132</td>
<td>Two-Dimensional Studies in Visual Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 133</td>
<td>Three-Dimensional Studies in Visual Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 291W</td>
<td>Advanced Writing-Writing/Artists*</td>
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**TOTAL CORE CREDITS** 12

### Visual Communication Design

<table>
<thead>
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<th>Course Title</th>
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<tbody>
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<td>ARTH 100</td>
<td>History of Art: Renaissance through Modernism</td>
<td>3</td>
</tr>
<tr>
<td>ARTV 201</td>
<td>Introduction to Computer Graphics for Design</td>
<td>3</td>
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<tr>
<td>ARTV 215</td>
<td>Visual Communication Design</td>
<td>3</td>
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<tr>
<td>ARTV 217</td>
<td>Typography I</td>
<td>3</td>
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<tr>
<td>ARTV 283</td>
<td>Visual Communication Design Admittance Review</td>
<td>3</td>
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<tr>
<td>ARTV 391</td>
<td>History of Visual Communication Design</td>
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<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
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<tr>
<td>ARTH 317</td>
<td>Typography I</td>
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<tr>
<td>ARTH 210</td>
<td>Photography I</td>
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<tr>
<td>ARTH 310</td>
<td>Drawing II</td>
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<tr>
<td>ARTH 315</td>
<td>Visual Communication Design II</td>
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<tr>
<td>ARTH 330</td>
<td>Interaction Design for Visual Communication I</td>
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<td>ARTH 230</td>
<td>Painting I</td>
<td>3</td>
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<tr>
<td>ARTV 272</td>
<td>Printmaking I</td>
<td>3</td>
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<tr>
<td>ARTV 375</td>
<td>Screenprinting</td>
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<tr>
<td>ARTV 325</td>
<td>Techniques in Visual Communication Design</td>
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<tr>
<td>ARTH 321</td>
<td>History of Visual Communication Design</td>
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<td>Select one 300/400-level ARTH course</td>
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<tr>
<td></td>
<td>Select one studio elective at the 200 level or above</td>
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</tr>
<tr>
<td></td>
<td>Select one studio elective at the 300 level or above</td>
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**TOTAL PROGRAM CREDITS** 51

**TOTAL CREDITS** 123
Bachelor of Fine Arts in Studio Arts

The B.F.A. degrees are the nationally accepted professional degrees in visual arts. These degrees are restricted and carry a high level of expected growth and involvement on the student’s part. B.F.A. students are not required to earn a minor outside of the visual arts, so spend more time studying in studios. All students seeking a Bachelor of Fine Arts in visual arts must complete the 15-credit-hour core plus one of the 9 tracks listed here: art history, drawing, integrative media, new media art, painting, photography, printmaking, spatial arts (ceramics and sculpture), spatial and new media arts, or the B.F.A. degree in visual communication design. Upon completion of 60 semester hours* in the university and 27 semester hours in art, students who intend to apply for admission to the B.F.A. degree option should register for ART 299: Portfolio Review. Students must have a 2.5 university GPA or higher to be accepted into the B.F.A. program and must maintain this minimum overall GPA to graduate with a B.F.A. degree from the department.

Degree Requirements: B.F.A. – Studio Arts

Core Courses in Art

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 131</td>
<td>Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 132</td>
<td>Two-Dimensional Studies in Visual</td>
<td>3</td>
</tr>
<tr>
<td>ART 133</td>
<td>Three-Dimensional Studies in Visual</td>
<td>3</td>
</tr>
<tr>
<td>ART 134</td>
<td>Four-Dimensional Studies and Color</td>
<td>3</td>
</tr>
<tr>
<td>ART 291W</td>
<td>Advanced Writing-Writing/Artists **</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL CORE CREDITS 15

*ART 134 is not required for visual communication design students on the 2014 catalog and later.
**ART 291W Advanced Writing-Writing/Artists fulfills the general education requirements for Written Communication II.

Art History Track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ARTH 100</td>
<td>History of Art: Renaissance through Modernism</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 304</td>
<td>Survey of Asian Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 355</td>
<td>Art of the Twentieth Century</td>
<td>3</td>
</tr>
<tr>
<td>Select four 300/400 ARTH courses</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>ARTP 230</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 262</td>
<td>Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>ART 299</td>
<td>Portfolio Review (to be taken second semester of year 2 or first semester of year 3 at the latest)</td>
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</tr>
<tr>
<td>Select two studio art electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Foreign language requirement: four semesters or high school equivalent in Arabic, Chinese, French, German, Italian, Japanese, Latin, Russian, or Spanish</td>
<td>12</td>
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</tr>
<tr>
<td>Select 9 credit hours of electives from anthropology, history, philosophy, and religion. (Consult with advisor regarding appropriate courses; other courses are available upon approval)</td>
<td>9</td>
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</tr>
<tr>
<td>ART 497</td>
<td>Senior Exhibition</td>
<td>1</td>
</tr>
<tr>
<td>ART 499</td>
<td>Gallery/Museum Internship</td>
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</table>

TOTAL TRACK CREDITS 59

Total Core Credits 15

TOTAL CREDITS 76

Drawing Track

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ARTH 100</td>
<td>History of Art: Renaissance through Modernism</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 355</td>
<td>Art of the Twentieth Century</td>
<td>3</td>
</tr>
<tr>
<td>Select two 300/400-level ARTH courses</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ARTP 230</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ARTC 240</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 262</td>
<td>Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>ARTR 272</td>
<td>Printmaking I</td>
<td>3</td>
</tr>
</tbody>
</table>

Bachelor of Fine Arts in Studio Arts: New Media Art Track

The new media art track is designed for students who want to explore areas such as electronic art, robotic art, installation or experimental video and film. New media art uses the elements of time with a strong intersection of technology and media that often involve interactivity and exploration of cultural concepts. The curriculum includes working at the frontiers of art, science, and technology, through hands-on learning techniques with critical and creative thinking skills to understand the contemporary world. New media art will prepare students for graduate school, for contemporary art practice as an independent artist and for careers in the creative technological fields such as film, videography, computing, or installation/exhibition design.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 100</td>
<td>History of Art: Renaissance through Modernism</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
<td>3</td>
</tr>
<tr>
<td>Select two ARTH 300/400-level courses</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ARTH 454</td>
<td>Art Now</td>
<td>3</td>
</tr>
<tr>
<td>ARTP 240</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ARTM 350</td>
<td>Video, Installation, and Sound I</td>
<td>3</td>
</tr>
<tr>
<td>ART 210</td>
<td>Photography I</td>
<td>3</td>
</tr>
<tr>
<td>ARTP 230</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ARTR 272</td>
<td>Printmaking I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 262</td>
<td>Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>ART 299</td>
<td>Portfolio Review (to be taken after 60 credit hours of university coursework or 21 credit hours in art)</td>
<td>0</td>
</tr>
<tr>
<td>ARTM 331</td>
<td>Digital Arts and Effects</td>
<td>3</td>
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<tr>
<td>ARTM 450</td>
<td>Video, Installation, and Sound II</td>
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<tr>
<td>Studio Techniques - Select one course from the following:</td>
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<tr>
<td>ART 317</td>
<td>Web and Social Media for Artists</td>
<td>3</td>
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<tr>
<td>ARTP 360</td>
<td>Techniques in Sculpture</td>
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</tr>
<tr>
<td>Topics in New Media Art – Select two courses from the following:</td>
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</tr>
<tr>
<td>ARTM 394</td>
<td>Topics in New Media Art</td>
<td></td>
</tr>
<tr>
<td>ARTM 360</td>
<td>Robotic Art</td>
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<tr>
<td>ARTM 361</td>
<td>A.I. Interactive Media Studio</td>
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</tr>
<tr>
<td>Studio Art or Media Informatics Elective - Select one course from the following:</td>
<td></td>
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<tr>
<td>Any Studio Art course --OR--</td>
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<tr>
<td>MIN 240</td>
<td>Introduction to Interactive Media</td>
<td>3</td>
</tr>
<tr>
<td>MIN 345</td>
<td>Introduction to 3D Modeling</td>
<td>3</td>
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<tr>
<td>MIN 352</td>
<td>Digital Media Projects</td>
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</tbody>
</table>
### Bachelor of Fine Arts in Studio Arts: Integrative Media Track

Integrative Media is for the student whose work combines two or more media. To pass into this track, a student must show evidence of this approach during the Portfolio Review.

**Special admission requirements:** To apply, submit a letter to the professors/area coordinators in the disciplines to be integrated a minimum of 2 weeks before Portfolio Review explaining the rationale for why the Integrative Media emphasis is the appropriate track for study.

If the student is accepted, an Integrative Media Track Committee will be created composed of two or three appropriate faculty members chosen by the student and the Portfolio Review Committee by the end of the semester of the student’s Portfolio Review. This committee, in consultation with the student, will develop a course of study appropriate to the development of the student’s work. This must be approved by the Department of Visual Arts chair.

#### Integrative Media Track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
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<td>ARTH 100</td>
<td>History of Art: Renaissance through Modernism</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 454</td>
<td>Art Now</td>
<td>3</td>
</tr>
<tr>
<td>Select two 300/400-level ARTH courses</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ARTP 230</td>
<td>Painting I</td>
<td>3</td>
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<tr>
<td>ARTC 240</td>
<td>Ceramics I</td>
<td>3</td>
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<tr>
<td>ARTS 262</td>
<td>Sculpture I</td>
<td>3</td>
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<tr>
<td>ARTR 272</td>
<td>Printmaking I</td>
<td>3</td>
</tr>
<tr>
<td>ARTO 210</td>
<td>Photography I</td>
<td>3</td>
</tr>
<tr>
<td>ARTM 350</td>
<td>Video, Installation and Sound</td>
<td>3</td>
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<tr>
<td>ART 299</td>
<td>Portfolio Review (to be taken after 60 credit hours)</td>
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<tr>
<td>Select studio electives with committee and department chair approval</td>
<td>27</td>
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<tr>
<td>ART 454</td>
<td>Advanced Studio Seminar</td>
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<td>ART 497</td>
<td>Senior Exhibition</td>
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**Total Core Credits:** 64

**TOTAL CREDITS:** 76

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### Painting Track

<table>
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<tbody>
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<td>History of Art: Renaissance through Modernism</td>
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<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
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<td>ARTH 355</td>
<td>Art of the Twentieth Century</td>
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<td>ARTC 240</td>
<td>Ceramics I</td>
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<tr>
<td>ARTS 262</td>
<td>Sculpture I</td>
<td>3</td>
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<tr>
<td>ARTR 272</td>
<td>Printmaking I</td>
<td>3</td>
</tr>
<tr>
<td>ARTO 210</td>
<td>Photography I</td>
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<td>ART 299</td>
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**Total Core Credits:** 15

**TOTAL CREDITS:** 76

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### Photography Track

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<tbody>
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<td>ARTH 100</td>
<td>History of Art: Renaissance through Modernism</td>
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<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
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<tr>
<td>ARTH 454</td>
<td>Art Now</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 358</td>
<td>History of Photography</td>
<td>3</td>
</tr>
<tr>
<td>ARTP 230</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ARTC 240</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 262</td>
<td>Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>ARTR 272</td>
<td>Printmaking I</td>
<td>3</td>
</tr>
<tr>
<td>ARTO 210</td>
<td>Photography I</td>
<td>3</td>
</tr>
<tr>
<td>ARTM 350</td>
<td>Video, Installation and Sound</td>
<td>3</td>
</tr>
<tr>
<td>EMB 210</td>
<td>Introduction to Video: Single Camera Production</td>
<td>3</td>
</tr>
<tr>
<td>ART 299</td>
<td>Portfolio Review (to be taken after 60 credit hours)</td>
<td>0</td>
</tr>
<tr>
<td>ART 450</td>
<td>Advanced Studio Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ART 497</td>
<td>Senior Exhibition</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Core Credits:** 15

**TOTAL CREDITS:** 76

Click here or at a 4-year plan showing one way a student can complete the program below in 4 years if the student requires no remedial courses.
### Printmaking Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 100</td>
<td>History of Art: Renaissance through Modernism</td>
</tr>
<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
</tr>
<tr>
<td>ARTH 355</td>
<td>Art of the Twentieth Century</td>
</tr>
<tr>
<td>Select two 300/400-level ARTH courses</td>
<td>6</td>
</tr>
<tr>
<td>ARTP 230</td>
<td>Painting I</td>
</tr>
<tr>
<td>ARTO 210</td>
<td>Photography I</td>
</tr>
<tr>
<td>ARTP 330</td>
<td>Painting II</td>
</tr>
<tr>
<td>ARTR 272</td>
<td>Printmaking I</td>
</tr>
<tr>
<td>ART 299</td>
<td>Portfolio Review (to be taken after ARTR 373 and 60 credit hours of university coursework or 21 credit hours)</td>
</tr>
<tr>
<td>ARTD 310</td>
<td>Drawing II</td>
</tr>
<tr>
<td>ARTS 360</td>
<td>Sculpture I</td>
</tr>
<tr>
<td>ARTS 262</td>
<td>Printmaking II</td>
</tr>
<tr>
<td>ARTS 460</td>
<td>Ceramics I</td>
</tr>
<tr>
<td>Select one 300/400-level studio art course in ART, ARTC, ARTD, ARTH, ARTP, ARTR, or ARTS</td>
<td>3</td>
</tr>
<tr>
<td>ARTR 473</td>
<td>Advanced Printmaking (take twice)</td>
</tr>
<tr>
<td>Select two 300/400-level printmaking (ARTR) courses</td>
<td>6</td>
</tr>
<tr>
<td>ART 450</td>
<td>Advanced Studio Seminar</td>
</tr>
<tr>
<td>ART 497</td>
<td>Senior Exhibition</td>
</tr>
</tbody>
</table>

**TOTAL PROGRAM CREDITS**: 61

**Total Core Credits**: 15

**TOTAL CREDITS**: 76

### Spatial Arts Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 100</td>
<td>History of Art: Renaissance through Modernism</td>
</tr>
<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
</tr>
<tr>
<td>Select one ARTH 300/400-level course</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 454</td>
<td>Art Now</td>
</tr>
<tr>
<td>ARTP 230</td>
<td>Painting I</td>
</tr>
<tr>
<td>ARTR 272</td>
<td>Printmaking I</td>
</tr>
<tr>
<td>ART 299</td>
<td>Portfolio Review (to be taken after ARTR 373 and 60 credit hours of university coursework or 21 credit hours)</td>
</tr>
<tr>
<td>ARTD 310</td>
<td>Drawing II</td>
</tr>
<tr>
<td>ARTP 330</td>
<td>Painting II</td>
</tr>
<tr>
<td>Select three courses from the following:</td>
<td></td>
</tr>
<tr>
<td>ARTC 240</td>
<td>Ceramics I</td>
</tr>
<tr>
<td>ARTP 330</td>
<td>Painting II</td>
</tr>
<tr>
<td>ARTR 375</td>
<td>Printmaking II</td>
</tr>
<tr>
<td>TAR 361</td>
<td>Advanced Printmaking (take twice)</td>
</tr>
<tr>
<td>Select two 300/400-level printmaking (ARTR) courses</td>
<td>6</td>
</tr>
<tr>
<td>ART 450</td>
<td>Advanced Studio Seminar</td>
</tr>
<tr>
<td>ARTR 473</td>
<td>Advanced Printmaking (take twice)</td>
</tr>
<tr>
<td>Select three courses from the following:</td>
<td></td>
</tr>
<tr>
<td>ARTH 100</td>
<td>History of Art: Renaissance through Modernism</td>
</tr>
<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
</tr>
<tr>
<td>Select two ARTH 300/400-level courses</td>
<td>6</td>
</tr>
<tr>
<td>ARTH 454</td>
<td>Art Now</td>
</tr>
<tr>
<td>ARTC 240</td>
<td>Ceramics I</td>
</tr>
<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
</tr>
<tr>
<td>Select two ARTH 300/400-level courses</td>
<td>6</td>
</tr>
<tr>
<td>ARTH 454</td>
<td>Art Now</td>
</tr>
<tr>
<td>Select one ARTH 300/400-level course in ART, ARTH, ARTP, ARTR, or ARTS</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 454</td>
<td>Art Now</td>
</tr>
<tr>
<td>ARTH 454</td>
<td>Art Now</td>
</tr>
<tr>
<td>Select one ARTH 300/400-level course in ART, ARTH, ARTP, ARTR, or ARTS</td>
<td>3</td>
</tr>
<tr>
<td>Select two 300/400-level courses in art history or studio art in ART, ARTH, ARTP, ARTR, or ARTS</td>
<td>6</td>
</tr>
<tr>
<td>ART 450</td>
<td>Advanced Studio Seminar</td>
</tr>
<tr>
<td>ARTS 460</td>
<td>Advanced Spatial Arts (take twice, once in conjunction with ART 497)</td>
</tr>
<tr>
<td>ART 497</td>
<td>Senior Exhibition</td>
</tr>
</tbody>
</table>

**TOTAL TRACK CREDITS**: 61

**Total Core Credits**: 15

**TOTAL CREDITS**: 76

### Spatial and New Media Arts Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 100</td>
<td>History of Art: Renaissance through Modernism</td>
</tr>
<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
</tr>
<tr>
<td>Select two ARTH 300/400-level courses</td>
<td>6</td>
</tr>
<tr>
<td>ARTH 454</td>
<td>Art Now</td>
</tr>
<tr>
<td>ARTP 230</td>
<td>Painting I</td>
</tr>
<tr>
<td>Select three courses from the following:</td>
<td></td>
</tr>
<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
</tr>
<tr>
<td>Select two ARTH 300/400-level courses</td>
<td>6</td>
</tr>
<tr>
<td>ARTH 454</td>
<td>Art Now</td>
</tr>
<tr>
<td>Select one ARTH 300/400-level course in ART, ARTH, ARTP, ARTR, or ARTS</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 454</td>
<td>Art Now</td>
</tr>
<tr>
<td>ARTH 454</td>
<td>Art Now</td>
</tr>
<tr>
<td>Select one ARTH 300/400-level course in ART, ARTH, ARTP, ARTR, or ARTS</td>
<td>3</td>
</tr>
<tr>
<td>Select two 300/400-level courses in art history or studio art in ART, ARTH, ARTP, ARTR, or ARTS</td>
<td>6</td>
</tr>
<tr>
<td>ART 450</td>
<td>Advanced Studio Seminar</td>
</tr>
<tr>
<td>ARTS 460</td>
<td>Advanced Spatial Arts (take twice, once in conjunction with ART 497)</td>
</tr>
<tr>
<td>ART 497</td>
<td>Senior Exhibition</td>
</tr>
</tbody>
</table>

**TOTAL TRACK CREDITS**: 61

**Total Core Credits**: 15

**TOTAL CREDITS**: 76

### Bachelor of Fine Arts in Visual Communication Design

**Special admission requirements**: Successful review in ARTV 283: Graphic Design Admittance Review is required prior to submitting work for ARTH 299: Portfolio Review. Successful review in ARTH 299 is required for admission to the B.F.A. in visual communication design.

**Core Courses in Visual Communication Design**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 131</td>
<td>Drawing</td>
</tr>
<tr>
<td>ART 132</td>
<td>Two-Dimensional Studies in Visual Art</td>
</tr>
<tr>
<td>ART 133</td>
<td>Three-Dimensional Studies in Visual Art</td>
</tr>
<tr>
<td>ART 291W</td>
<td>Advanced Writing-Writing/Artists*</td>
</tr>
</tbody>
</table>

**TOTAL CORE CREDITS**: 12

*ART 291W Advanced Writing-Writing/Artists* fulfills the general education requirements for Written Communication II.
Visual Communication Design Track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 100</td>
<td>History of Art: Renaissance through Modernism</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric through Gothic</td>
<td>3</td>
</tr>
<tr>
<td>ARTV 201</td>
<td>Introduction to Computer Graphics for Design</td>
<td>3</td>
</tr>
<tr>
<td>ARTV 215</td>
<td>Visual Communication Design I</td>
<td>3</td>
</tr>
<tr>
<td>ARTV 217</td>
<td>Typography I</td>
<td>3</td>
</tr>
<tr>
<td>ARTV 283</td>
<td>Visual Communication Design Admittance Review</td>
<td>0</td>
</tr>
<tr>
<td>ARTV 317</td>
<td>Typography II</td>
<td>3</td>
</tr>
<tr>
<td>ARTO 210</td>
<td>Photography I</td>
<td>3</td>
</tr>
<tr>
<td>ARTD 310</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ARTV 315</td>
<td>Visual Communication Design II</td>
<td>3</td>
</tr>
<tr>
<td>ARTV 330</td>
<td>Interaction Design for Visual Communication Design I</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from the following:
- ARTP 230 Painting I
- ARTR 272 Printmaking I
- ARTR 375 Screenprinting
- ART 299 Portfolio Review
  (to be taken after 60 semester hours of university coursework or 21 semester hours in art; must be taken in either fall or spring of intermediate-level year)

ARTV 325 Techniques in Visual Communication Design 3

ARTH 321 History of Visual Communication Design 3

Select one 3D studio elective 3

ARTV 417 Typography III 3

ARTV 425 Information Design 3

ARTV 430 Interaction Design for Visual Communication II 3

Select one 2D studio elective 3

ARTV 415 Visual Communication Design III 3

ARTV 427 Motion Design 3

Select one 300/400-level studio elective 3

ARTG 496 Visual Communication Design Experiential Component 3

CEP 300 -- OR -- Cooperative Education 3

ARTV 428 Visual Communication Design Capstone 3

ART 497 Senior Exhibition 1

**TOTAL PROGRAM CREDITS** 70

**Total Core Credits** 12

**TOTAL CREDITS** 82

Visual Arts Minors

Minor in Art: Studio Arts

**Requirements for Minor: Studio Arts**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 132</td>
<td>Two-Dimensional Studies in Visual Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 133</td>
<td>Three-Dimensional Studies in Visual Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 100</td>
<td>History of Art: Renaissance to Modernism</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 101</td>
<td>History of Art: Prehistoric to Gothic</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 15 credit hours from ART, ARTC, ARTD, ARTO, ARTR, and ARTS. Courses may be concentrated in one discipline or generalized by taking a course from each. 15

**TOTAL CREDITS** 27

Minor in Photography

**Requirements for Minor: Photography**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 132</td>
<td>2-Dimensional Studies in Visual Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTO 210</td>
<td>Basic Photography</td>
<td>3</td>
</tr>
<tr>
<td>ARTO 310</td>
<td>Photography II</td>
<td>3</td>
</tr>
<tr>
<td>ARTO 312</td>
<td>Applied Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three courses from the following:
- ARTO 318 Study Abroad Photography II
- OR -
- ARTO 418 Study Abroad Photography III
- ART 317 Web Design for Artists

ART 358 History of Photography 3

ARTO 410 Advanced Photography 3

ART 413 Advanced Location Photography 3

ARTO 414 Advanced Studio Photography 3

ARTO 415 Documentary Photography 3

ARTO 313 Darkroom and Exhibition Printing 3

ARTO 394 Topics in Photography 3

ARTO 411 Summer Workshop in Photography 3

Select 15 credit hours from ART, ARTC, ARTD, ARTO, ARTR, and ARTS. Courses may be concentrated in one discipline or generalized by taking a course from each. 15

**TOTAL CREDITS** 27

Minor in Art History

**Requirements for Minor: Art History**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 100</td>
<td>History of Art Renaissance to Modernism</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 101</td>
<td>History of Art Prehistoric to Gothic</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 304</td>
<td>Survey of Asian Art</td>
<td>3</td>
</tr>
</tbody>
</table>

Select four courses from the following:
- ARTH 349 Women and Art
- ARTH 350 Ancient Art
- ARTH 351 Medieval Art
- ARTH 352 Northern European Art/Renaissance
- ARTH 353 Baroque Art
- ARTH 354 Art of the 19th Century
- ARTH 355 Art of the 20th Century
- ARTH 356 American Art
- ARTH 357 Art of the Italian Renaissance
- ARTH 358 History of Photography
- ARTH 359 Arts and Crafts of Japan
- ARTH 360 African-American Art
- ARTH 394 Topics in Art History
- ARTH 452 Arts of South Asia
- ARTH 454 Art Now

Select 1 studio art elective from ART, ARTC, ARTD, ARTM, ARTO, ARTP, ARTR, and ARTS 3

**TOTAL CREDITS** 24

Minor in Spatial Arts

**Requirements for Minor: Spatial Arts**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTC 240</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 262</td>
<td>Sculpture I</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 15 credit hours from 300-400 level ARTC or ARTS courses. Courses may be concentrated in one discipline or generalized by taking courses from both ARTC and ARTS. Select from the following courses: ARTC 340, ARTC 341, ARTC 440, ARTC 443, ARTS 360, ARTS 362, and ARTS 460. 15

**TOTAL CREDITS** 21
Department of World Languages and Literatures

Location: Landrum Academic Center 134
Telephone: 859-572-7650
Fax: 859-572-7506
Email Address: worldlanglit@nku.edu
Web Address: http://worldlanglit.nku.edu
Department Chair: Caryn Connelly
Department Coordinator: Tiffany Budd
Full-Time Faculty: Caryn Connelly, Irene Encarnación, Nancy Jentsch, Barbara Klaw, Katherine Kurf, Hilary Landwehr, Kasja Larson, Gisèle Loriot-Raymer, Makoto Nakamura, Blas Puente-Baldoceda

Undergraduate Programs:

 Majors:
 Bachelor of Arts
 French
 French with teaching certification
 German
 German with teaching certification
 Spanish
 Spanish with teaching certification

 Minors:
 Chinese Studies (see interdisciplinary section of catalog)
 French
 German
 Japanese Language and Culture
 Spanish

Thinking about the discipline: The study of another language helps us to understand and appreciate our neighbors in the world. Today, as countries become increasingly dependent on each other, the knowledge of other languages and cultures is more important than ever before. The study of languages can directly and indirectly provide job-related knowledge and skills that can offer a competitive edge in finding employment. Possible areas of employment include education; international business, law or journalism; social work; tourism industry (airlines, tour guides, travel agents); library and information science; immigration, customs and foreign service; and translation and interpretation.

Special opportunities for our students: The department sponsors conversation hours in French, German, Japanese, and Spanish. In addition, the department sponsors film series and the Phi Sigma Iota Honor Society.

Special graduation requirements: No course in which a grade below a C- is earned can be used to fulfill the major course requirements in French, German, or Spanish.

Program assessment: All graduating seniors with majors in French, German, or Spanish are required to submit a portfolio prior to graduation. As part of the portfolio, they are required to submit the results of language proficiency tests. Candidates for teaching certification in French, German, or Spanish must achieve a proficiency level of at least “advanced low” on an ACTFL oral proficiency interview or equivalent in order to be recommended for certification. Guidelines for the entire portfolio and for fulfillment of the ACTFL proficiency requirement can be found in the World Languages and Literatures Majors’ Handbook online (http://arts.science.nku.edu/content/dam/worldlanglit/docs/Majors%20Handbook.pdf).

You should also know: Departmental placement and retroactive credit policies: Any courses in the 101, 102, 201, 202 sequence in a language may not be taken for credit by a student who has already received credit for the course or a higher numbered course in the same language without permission of the department chair. Initial placement in French, German, or Spanish must be in accord with departmental placement guidelines. The WebCAPE placement test is required. Retroactive credit through the World Language Incentive Program may be available for students who enroll in courses at a level higher than 101. Placement above or below the range specified in the guidelines requires approval of the department chair. Students whose placement does not reflect departmental guidelines may be removed from the program. The WebCAPE (http://arts.science.nku.edu/departments/worldlanglit/placement/webcape.html) placement test, detailed placement guidelines and information about retroactive credit options can be found online.

World Languages and Literatures Majors

Bachelor of Arts with a major in French
If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.A. – French

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRE 201</td>
<td>Intermediate French I&lt;br&gt;Prerequisites: FRE 101 and FRE 102 or placement</td>
</tr>
<tr>
<td>FRE 202</td>
<td>Intermediate French II</td>
</tr>
<tr>
<td>FRE 304</td>
<td>French Composition and Conversation</td>
</tr>
<tr>
<td>FRE 401</td>
<td>French Phonetics and Pronunciation&lt;br&gt;-- OR --</td>
</tr>
<tr>
<td>FRE 402</td>
<td>Advanced French Grammar and Syntax</td>
</tr>
<tr>
<td>FRE 480</td>
<td>Studies in French Culture</td>
</tr>
<tr>
<td>FRE 481</td>
<td>Studies in French Literature</td>
</tr>
<tr>
<td>Culture Study:</td>
<td>select two courses from the following not already taken:</td>
</tr>
<tr>
<td>FRE 310</td>
<td>French Culture and Society Today</td>
</tr>
<tr>
<td>FRE 311</td>
<td>French Cultural History</td>
</tr>
<tr>
<td>FRE 330</td>
<td>Studies in French Language Cinema</td>
</tr>
<tr>
<td>FRE 340</td>
<td>Business French</td>
</tr>
<tr>
<td>FRE 401</td>
<td>French Phonetics and Pronunciation</td>
</tr>
<tr>
<td>FRE 402</td>
<td>Advanced French Grammar and Syntax</td>
</tr>
<tr>
<td>FRE 480</td>
<td>Studies in French Culture</td>
</tr>
<tr>
<td>FRE 520</td>
<td>Readings: French (culture topic)</td>
</tr>
<tr>
<td>Literary Study:</td>
<td>select two courses from the following not already taken:</td>
</tr>
<tr>
<td>FRE 320</td>
<td>Survey of French Literature</td>
</tr>
<tr>
<td>FRE 322</td>
<td>French Drama</td>
</tr>
<tr>
<td>FRE 323</td>
<td>French Prose Fiction</td>
</tr>
<tr>
<td>FRE 481</td>
<td>Studies in French Literature</td>
</tr>
<tr>
<td>FRE 520</td>
<td>Readings: French (literary topic)</td>
</tr>
<tr>
<td>Interdisciplinary Component:</td>
<td>select one course from the following:</td>
</tr>
<tr>
<td>ANT 275</td>
<td>Language and Culture</td>
</tr>
<tr>
<td>CIN 201</td>
<td>Survey of World Cinema</td>
</tr>
<tr>
<td>ENG 206</td>
<td>Western World Literature I</td>
</tr>
<tr>
<td>ENG 207</td>
<td>Western World Literature II</td>
</tr>
<tr>
<td>ENG 381</td>
<td>Introduction to Linguistics</td>
</tr>
<tr>
<td>GEO 402</td>
<td>Geography of Europe</td>
</tr>
<tr>
<td>HIS 348</td>
<td>History of France 1804-1918</td>
</tr>
<tr>
<td>HIS 349</td>
<td>History of France 1918 to Present</td>
</tr>
<tr>
<td>HIS 409</td>
<td>The French Revolution</td>
</tr>
</tbody>
</table>
PHI 305  Existentialism
PSC 330  Politics of Europe

Select one FRE course above the 202 level

TOTAL CREDITS 36

Bachelor of Arts with a major in French with Teaching Certification

Students pursuing a major in French with secondary certification are required to:

1. Complete the requirements listed above for the Bachelor of Arts in French.
2. Review the portion of this catalog relating to education.
3. Schedule an appointment with the certification specialist in the College of Education and Human Services and with the certification advisor in French. This should be done as soon as one knows he or she plans to pursue, or is considering, teaching certification.
4. Complete all required teacher education and general education courses.
5. Fulfill all departmental requirements involving the portfolio and other required assessments as specified in the handbook (http://artscience.nku.edu/content/dam/worldlanglit/docs/Majors%20Handbook.pdf) for world language majors.

Degree Requirements: B.A. – French with Teaching Certification

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requirements for Bachelor of Arts in French (listed above)</td>
<td>36-42</td>
</tr>
<tr>
<td>GER 402  Methods of Teaching in French</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL CREDITS</td>
<td>39-45</td>
</tr>
</tbody>
</table>

Bachelor of Arts with a major in German

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.A. – German

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
</table>
| GER 201  Intermediate German I  
Prerequisites: GER 101 and GER 102 or placement | 3 |
| GER 202  Intermediate German II | 3 |
| GER 304  German Composition and Conversation | 3 |
| GER 401  German Phonetics and Pronunciation  
-- OR -- | 3 |
| GER 402  Advanced German Grammar and Syntax | 3 |
| GER 480  Studies in German Culture | 3 |
| GER 481  Studies in German Literature | 3 |

Culture Study: select two courses from the following:

GER 310  Contemporary German Life
GER 311  German Cultural History
GER 330  Studies in German Language Cinema
GER 340  Business German
GER 401  German Phonetics and Pronunciation
GER 402  Advanced German Grammar and Syntax
GER 480  Studies in German Culture
GER 520  Readings: German (culture topic)

Literary Study: select two courses from the following:

GER 320  Survey of German Literature
GER 322  German Drama

TOTAL CREDITS 36

Bachelor of Arts with a major in German with Teaching Certification

Students pursuing a major in German with secondary certification are required to:

1. Complete the requirements listed above for the Bachelor of Arts in German.
2. Review the portion of this catalog relating to education.
3. Schedule an appointment with the certification specialist in the College of Education and Human Services and with the chair of the world languages department. This should be done as soon as one knows he or she plans to pursue, or is considering, teaching certification.
4. Complete all required teacher education and general education courses.
5. Fulfill all departmental requirements involving the portfolio and other required assessments as specified in the handbook (http://artscience.nku.edu/content/dam/worldlanglit/docs/Majors%20Handbook.pdf) for world language majors.

Degree Requirements: B.A. – German with Teaching Certification

<table>
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<tbody>
<tr>
<td>Requirements for Bachelor of Arts in German (listed above)</td>
<td>36-42</td>
</tr>
</tbody>
</table>
| GER 401  Intermediate German I  
Prerequisites: GER 101 and GER 102 or placement | 3 |
| TOTAL CREDITS | 39-45 |

Bachelor of Arts with a major in Spanish

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

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</thead>
<tbody>
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<td>Requirements for Bachelor of Arts in Spanish (listed above)</td>
<td>36-42</td>
</tr>
<tr>
<td>GER 320  Survey of German Literature</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL CREDITS</td>
<td>39-45</td>
</tr>
</tbody>
</table>
Degree Requirements: B.A. – Spanish

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SPI 201</td>
<td>Intermediate Spanish</td>
</tr>
<tr>
<td>Prerequisites: SPI 101 and SPI 102 or placement</td>
<td>3</td>
</tr>
<tr>
<td>SPI 202</td>
<td>Intermediate Spanish II</td>
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<tr>
<td>SPI 304</td>
<td>Spanish Composition and Conversation</td>
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<td>SPI 480</td>
<td>Studies in Spanish and Spanish-American Culture</td>
</tr>
<tr>
<td>SPI 481</td>
<td>Studies in Spanish and Spanish American Literature</td>
</tr>
</tbody>
</table>

Culture Study: select two courses from the following not already taken:
- SPI 310 Spanish Culture and Civilization
- SPI 311 Spanish-American Culture and Civilization
- SPI 330 Studies in Spanish Language Cinema
- SPI 340 Business Spanish
- SPI 401 Spanish Phonetics and Pronunciation
- SPI 402 Advanced Spanish Grammar and Syntax
- SPI 480 Studies in Spanish and Spanish-American Culture

SPI 520 Readings in Spanish (culture topic)

Literary Study: select two courses from the following not already taken:
- SPI 320 Survey of Peninsular Spanish Literature
- SPI 321 Survey of Spanish-American Literature
- SPI 322 Hispanic Drama
- SPI 323 Hispanic Prose Fiction
- SPI 481 Studies: Spanish and Spanish-American Literature
- SPI 520 Readings in Spanish (literary topic)

Interdisciplinary component: select one course from the following:
- ANT 245 Peoples of Latin America and the Caribbean
- ANT 275 Language and Culture
- ANT 360 Mesoamerican Indians
- CIN 201 Survey of World Cinema
- ENG 206 Western World Literature I
- ENG 207 Western World Literature II
- ENG 381 Introduction to Linguistics
- GEO 402 Geography of Europe
- GEO 406 Geography of Latin America
- HIS 325 Early Latin American History
- HIS 326 Modern Latin American History
- HIS 465 Nature and Development in Latin America
- PSC 330 Politics of Europe
- PSC 335 Politics of Latin America

Select one SPI course above the 202 level | 3

TOTAL CREDITS 36

Bachelor of Arts with a major in Spanish with Teaching Certification

Students pursuing a major in Spanish with secondary certification are required to:

1. Complete the requirements listed above for the Bachelor of Arts in Spanish.
2. Review the portion of this catalog relating to education.
3. Schedule an appointment with the certification specialist in the College of Education and Human Services and with the certification advisor in Spanish. This should be done as soon as one knows he or she plans to pursue, or is considering, teaching certification.
4. Complete all required teacher education and general education courses.

5. Fulfill all departmental requirements involving the portfolio and other required assessments as specified in the handbook (http://arts.nku.edu/content/dam/worldlanglit/docs/Majors%20Handbook.pdf) for world language majors.

Degree Requirements: B.A. – Spanish with Teaching Certification

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</thead>
<tbody>
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<td>Requirements for Bachelor of Arts in Spanish (listed above)</td>
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</tr>
<tr>
<td>SPI 350</td>
<td>Methods of Teaching Spanish</td>
</tr>
</tbody>
</table>

TOTAL CREDITS 39-45

World Languages and Literatures Minors

Minor in French

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

<table>
<thead>
<tr>
<th>Requirements for Minor: French</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRE 201 Intermediate French I</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisites: FRE 101 and FRE 102 or placement</td>
<td></td>
</tr>
<tr>
<td>FRE 202 Intermediate French II</td>
<td>3</td>
</tr>
<tr>
<td>FRE 304 French Composition and Conversation</td>
<td>3</td>
</tr>
</tbody>
</table>

Culture Study: select one course from the following:
- FRE 310 French Culture and Society Today
- FRE 311 French Cultural History
- FRE 330 Studies in French Language Cinema
- FRE 340 Business French
- FRE 401 French Phonetics and Pronunciation
- FRE 402 Advanced French Grammar and Syntax
- FRE 480 Studies in French Culture
- FRE 520 Readings: French (culture topic)

Literary Study: select one course from the following:
- FRE 320 Survey of French Literature
- FRE 322 French Drama
- FRE 323 French Prose Fiction
- FRE 481 Studies in French Literature
- FRE 520 Readings: French (literary topic)

Select two FRE electives above the 202 level | 6

TOTAL CREDITS 21

Minor in German

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

<table>
<thead>
<tr>
<th>Requirements for Minor: German</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 201 Intermediate German I</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: GER 101 and GER 102 or placement</td>
<td></td>
</tr>
<tr>
<td>GER 202 Intermediate German II</td>
<td>3</td>
</tr>
<tr>
<td>GER 304 German Composition and Conversation</td>
<td>3</td>
</tr>
</tbody>
</table>

Culture Study: select one course from the following:
- GER 310 Contemporary German Life
- GER 311 German Cultural History
- GER 330 Studies in German Language Cinema
- GER 340 Business German
- GER 401 German Phonetics and Pronunciation
Minor in Japanese Language and Culture

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Japanese Language and Culture

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JPN 201</td>
<td>3</td>
<td>Intermediate Japanese</td>
</tr>
<tr>
<td>JPN 202</td>
<td>3</td>
<td>Intermediate Japanese II</td>
</tr>
<tr>
<td>JPN 304</td>
<td></td>
<td>Japanese Composition and Conversation</td>
</tr>
<tr>
<td>JPN 311</td>
<td></td>
<td>Japanese Cultural History</td>
</tr>
<tr>
<td>JPN 325</td>
<td></td>
<td>Japanese Myth and Folklore</td>
</tr>
<tr>
<td>JPN 340</td>
<td></td>
<td>Business Japanese</td>
</tr>
<tr>
<td>JPN 380</td>
<td>9</td>
<td>Topics in Advanced Japanese</td>
</tr>
<tr>
<td>JPN 401</td>
<td></td>
<td>Japanese Phonetics and Pronunciation</td>
</tr>
<tr>
<td>JPN 402</td>
<td></td>
<td>Advanced Japanese Grammar and Syntax</td>
</tr>
<tr>
<td>SPI 201</td>
<td>3</td>
<td>Intermediate Spanish I</td>
</tr>
<tr>
<td>SPI 202</td>
<td>3</td>
<td>Intermediate Spanish II</td>
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<td>SPI 304</td>
<td>3</td>
<td>Spanish Composition and Conversation</td>
</tr>
<tr>
<td>SPI 310</td>
<td>3</td>
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</tr>
<tr>
<td>SPI 311</td>
<td>3</td>
<td>Spanish-American Culture and Civilization</td>
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<td>SPI 480</td>
<td>3</td>
<td>Studies in Spanish and Spanish-American Culture</td>
</tr>
<tr>
<td>SPI 520</td>
<td>3</td>
<td>Readings in Spanish (literary topic)</td>
</tr>
</tbody>
</table>

Electives — select two courses from the following or any two above not already taken

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>ANT 385</td>
<td></td>
<td>Peoples of East and Southeast Asia</td>
</tr>
<tr>
<td>ARTH 304</td>
<td></td>
<td>Survey of Asian Art</td>
</tr>
<tr>
<td>ARTH 359</td>
<td></td>
<td>Arts and Crafts of Japan</td>
</tr>
<tr>
<td>GEO 410</td>
<td></td>
<td>Geography of East Asia</td>
</tr>
<tr>
<td>GEO 540</td>
<td>6</td>
<td>Cultural Geography of Asia</td>
</tr>
<tr>
<td>HIS 338</td>
<td></td>
<td>History of Japan</td>
</tr>
<tr>
<td>JPN 350</td>
<td></td>
<td>Methods of Teaching Japanese</td>
</tr>
<tr>
<td>MUS 106</td>
<td></td>
<td>Music of World Cultures</td>
</tr>
<tr>
<td>POP 345</td>
<td></td>
<td>Japanese Popular Culture</td>
</tr>
<tr>
<td>PHI 304</td>
<td></td>
<td>Zen</td>
</tr>
<tr>
<td>PHI 312</td>
<td></td>
<td>Eastern Philosophy</td>
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<tr>
<td>PSC 388</td>
<td></td>
<td>Politics of Asia</td>
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<tr>
<td>REL 350</td>
<td></td>
<td>World Religions and Ethics</td>
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Minor in Spanish

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Requirements for Minor: Spanish

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<td>World Religions and Ethics</td>
</tr>
</tbody>
</table>

TOTAL CREDITS 21
The Haile/U.S. Bank College of Business

Location: Business Academic Center 305
Telephone: 859-572-5165
Email Address: cob@nku.edu
Web Address: http://cob.nku.edu

Dean: Rebecca Porterfield
Other Key Personnel:
  - Budget Officer: Mary Beth Dawson
  - Project and Events Manager: Jenny Sneed

The Haile/U.S. Bank College of Business offers professional degree programs designed to prepare graduates for successful careers as effective and ethical business and community leaders in a global economy.

In addition to the Founding of Knowledge general education program required for all undergraduate degree programs, business majors are required to complete a rigorous interdisciplinary basic business curriculum and an intense program of study in a particular major field. Business programs have selective admission. Students initially declare a pre-major in one of eight business disciplines (accounting, business administration, entrepreneurship, finance, human resources management, management, marketing, or sports business). Students who are uncertain about which major to pursue may declare a pre-major called "Undeclared in the College of Business." Pre-majors must meet the selective admission requirements to certify a major by completing ten specified courses with a minimum grade of C- in each course and a minimum GPA of 2.50 across the group.

The college is also home to other undergraduate professional degree programs in construction management and economics.

College Advising Center

Location: Business Academic Center 206
Telephone: 859-572-6134
Email Address: cobadvising@nku.edu
Director: Leslie Kyle

The advising center provides academic advising and career planning assistance for all students with undergraduate majors and minors in the Haile/U.S. Bank College of Business.

Departments

Accounting, Finance, and Business Law
Construction Management
Management
Marketing, Economics, and Sports Business

Accreditations

All business programs are accredited by AACSB – International, the Association to Advance Collegiate Schools of Business.

The construction management programs are accredited by the American Council for Construction Education (ACCE).

Centers

Alternative Dispute Resolution Center

Location: Business Academic Center 311
Telephone: 859-572-5114
Email Address: carrellm@nku.edu
Web Address: http://adr.nku.edu

Director: Michael R. Carrell

The primary mission of the Alternative Dispute Resolution Center is to provide for the peaceful, effective resolution of disputes. This mission is accomplished by utilizing negotiation, mediation, and arbitration processes in classes, training programs and professional conferences. The ADR Center uses the professional experience of full-time faculty from all colleges within NKU. Students are involved directly and indirectly through their participation in one of the largest labor-management conferences in the U.S. as well as their participation in courses that focus on negotiation and conflict resolution, human resource management, and labor relations. When appropriate, students may observe dispute resolution activities and participate in role plays based on actual cases.

Center for Economic Analysis and Development

Location: 2622 Alexandria Pike, Highland Heights, KY 41076
Telephone: 859-392-2413
Email Address: harrahj1@nku.edu
Web Address: http://cead.nku.edu
Senior Director: Janet Harrah

The Center for Economic Analysis and Development engages in applied business and economic research. It collects, analyzes, and disseminates information on demographic and economic conditions in the region. Other research includes population forecasts; cost-benefit studies; regional economic and industry forecasts; fiscal impact analysis; etc. CEAD’s mission is to conduct high-quality, objective research on issues related to the region’s current and future economic well being.

Center for Economic Education

Location: Business Academic Center 340
Telephone: 859-572-5155
Email Address: lang@nku.edu
Web Address: http://cee.nku.edu
Director: Nancy A. Lang

The goal of the Center for Economic Education is to improve the quality and quantity of economic instruction at all grade levels in order to promote economic and financial literacy in the community. As the primary service provider for economic education in northern Kentucky, the NKU center serves all teachers and youth in Boone, Bracken, Campbell, Grant, Gallatin, Kenton, Pendleton and Owen counties. This is accomplished by conducting professional development and graduate programs for teachers, consulting with individuals and schools on curriculum issues, providing resources to schools and individuals, and offering programs for youth. The center also serves as a resource and partner to the university community in offering and promoting financial literacy and supports the university’s outreach efforts. The NKU center is an integral part of a statewide network of centers within the Kentucky Council on Economic Education and is affiliated with the Council for Economic Education.

Center for Innovation and Entrepreneurship

Location: Founders Hall 305
Telephone: 859-572-5931
Email: dsouzar@nku.edu
Web Address: http://ei.nku.edu
Director: Rodney R. D’Souza

The Center for Innovation and Entrepreneurship at NKU is a driver of educational and professional development opportunities to all NKU students. The center has a transdisciplinary focus and seeks to advance the university’s strategy by fostering cross-campus applied learning and
embedding innovative thinking more deeply in the university culture. The center is built on the belief that students from the arts and sciences, engineering, nursing, business, informatics, and law can all learn from one another how to become more well-rounded innovative and creative thinkers. The center fosters opportunities for this transdisciplinary applied learning to occur. We design our programs to ignite passion for an entrepreneurial mindset, fuel desires by providing students with the resources and education to make their dreams a reality, and fan the spirit and culture of innovation and entrepreneurship across campus and the region.

Marketing Research Partnership Program

Location: Business Academic Center 312
Telephone: 859-572-6409
Email Address: levina@nku.edu
Web Address: http://mrpp.nku.edu
Director: Aron Levin

The mission of the Marketing Research Partnership Program is to educate undergraduate students in how to perform effectively and ethically as professionals who use or supply marketing research. We also seek to create excitement and provide opportunities for students to learn from marketing research professionals in the Greater Cincinnati area. Students in the MRPP interact with and network with the MRPP’s corporate partners, which are composed of some of the world’s most successful marketing research supplier companies. In addition, via service-learning courses, our students provide marketing research consultation services to nonprofits and small businesses in the region.

Business Interdisciplinary Programs

Minor in Business Administration

The minor in business administration is available to students whose major is outside the Haile/U.S. Bank College of Business. In addition, it is required for the following bachelor’s degrees in the Haile/U.S. Bank College of Business: accountancy, business administration, entrepreneurship, finance, human resource management, management, marketing, and sports business. It is also required for the Bachelor of Science in Business Informatics.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

### Requirements for Minor: Business Administration

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 200</td>
<td>Principles of Accounting I-Financial (Prerequisites: BIS 101 and a college-level mathematics course (MAT or STA)) 3</td>
</tr>
<tr>
<td>ACC 201</td>
<td>Principles of Accounting II-Managerial 3</td>
</tr>
<tr>
<td>BIS 300</td>
<td>Management Information Systems 3</td>
</tr>
<tr>
<td>BUS 230</td>
<td>Legal Environment 3</td>
</tr>
<tr>
<td>ECO 200</td>
<td>Principles of Macroeconomics 3</td>
</tr>
<tr>
<td>ECO 201</td>
<td>Principles of Microeconomics 3</td>
</tr>
</tbody>
</table>

### Degree Requirements: A.A.S. - Pre-Business Studies

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 101</td>
<td>Computer Literacy and Informatics 3</td>
</tr>
<tr>
<td>MAT 109</td>
<td>Algebra for College Students (or ACT &gt; 23) (Prerequisite: C- or better in MAHD 099 or placement) 3</td>
</tr>
<tr>
<td>ACC 200</td>
<td>Principles of Accounting I-Financial (Prerequisite: BIS 101) 3</td>
</tr>
<tr>
<td>ACC 201</td>
<td>Principles of Accounting II-Managerial 3</td>
</tr>
<tr>
<td>BUS 230</td>
<td>Legal Environment 3</td>
</tr>
<tr>
<td>ECO 200</td>
<td>Principles of Macroeconomics 3</td>
</tr>
<tr>
<td>ECO 201</td>
<td>Principles of Microeconomics 3</td>
</tr>
<tr>
<td>MGT 205</td>
<td>Business Management Principles 3</td>
</tr>
<tr>
<td>CMST 101</td>
<td>Public Speaking 3</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing 3</td>
</tr>
<tr>
<td>MAT 114</td>
<td>Finite Mathematics 3</td>
</tr>
<tr>
<td>ENG 291</td>
<td>Advanced College Writing 3</td>
</tr>
<tr>
<td>Gen Ed</td>
<td>Culture and Creativity OR -- Global Viewpoints 3</td>
</tr>
<tr>
<td>Gen Ed</td>
<td>Natural Sciences 3</td>
</tr>
</tbody>
</table>

Electives

Select electives that fit into the bachelor’s degree requirements for business majors. 18

**TOTAL CREDITS** 60
Department of Accounting, Finance, and Business Law

**Location:** Business Academic Center 375  
**Telephone:** 859-572-6526  
**Email Addresses:**  
acct@nku.edu (Accounting and Business Law)  
finance@nku.edu (Finance)  
**Web Address:** http://afbl.nku.edu  
**Department Chair:** Peter M. Theuri  
**Other Key Personnel:**  
Director, Master of Accountancy: Robert Salyer  
Department Coordinator: Jillian Ross  
Full-Time Faculty: Deborah Browning, Kathleen Carnes, Teressa Elliot, Darius Fatemi, Lee Kersting, J.C. Kim, Young Kim, James Kirtley, Alain Krapl, Linda Marquis, Catherine Neal, Vincent Owosho, Lorraine Ruh, Robert Russ, Robert Salyer, Peter Theuri, J.C. “Duke” Thompson, Marcia Vorholt  

**Undergraduate Programs:**

**Majors:**
- Bachelor of Science  
  - Accounting  
  - Accounting Information Systems Track  
  - Accounting Track  
  - Finance

**Minors:**
- Accounting  
- Finance

**Postbaccalaureate Certificates:**
- General Accounting  
- Finance

**Thinking about the discipline:** Accounting and finance are closely related business disciplines. Accounting provides the important financial information necessary to make decisions, and finance offers the skills necessary to manage a firm's financial assets to achieve organizational goals.

**Special opportunities for our students:** The accounting major requires practical training through an internship. Finance majors are also encouraged to participate in internship programs. Internship opportunities are very diverse and are continually being upgraded through the efforts of the department's professional advisory boards, faculty, and the college's business experience manager. There is also an active student organization for both majors that provides outstanding professional networking opportunities at regular meetings and activities. Each year, the department faculty select the outstanding student of the year in each major.

**You should also know:** To earn the Bachelor of Science with a major in accounting, students must earn a grade of C or better in all accounting courses.

**Accounting and Finance Majors**

**Bachelor of Science with a major in Accounting and the required minor in Business Administration**

The Bachelor of Science in accounting is offered to students who seek careers as accountants and auditors with public accounting firms or with commercial, industrial, or public institutions. A graduate with this major has a variety of career options such as internal auditor, cost accountant, budget director, tax accountant, Internal Revenue agent, municipal finance officer, controller, or chief financial officer.

The requirements to sit for the Certified Public Accountant exam are established by state law and implemented by the state board of accountancy in each state. The accountancy boards of Kentucky, Ohio, and Indiana require 150 credit hours including a bachelor’s degree. Students should consult the state board of accountancy in the state where they plan to seek employment and/or certification for specific requirements. Students needing the additional hours should investigate the Master of Accountancy (see Graduate Catalog for more information). The undergraduate accounting degree program meets the educational requirements necessary to take other certifying examinations in accounting (for example, Certified Management Accountant examination and Certified Internal Auditor examination).

In addition to courses to meet the selective admission for certification of the major and the business core courses, all students majoring in accounting must complete the following: (1) "MAT 112: Applied Calculus,” (2) six core accounting courses, (3) one experiential learning class, and (4) one of the two tracks in either accounting or accounting information systems.

**Special admission requirements:** Students desiring to enter the Bachelor of Science program in accounting must meet selective admission requirements established by the Haile/U.S. Bank College of Business. These requirements are met by completing a set of 10 courses (listed below) with a minimum grade of C in each course and a minimum GPA of 2.50 across the set of courses. Prior to meeting these requirements, students are enrolled as "pre-majors." Some of the selective admission courses can be used to satisfy general education requirements, and some satisfy partial requirements for the minor in business administration.

**Transfer students:** Transfer students with a major in accounting are required to complete at least 15 credit hours of ACC courses and at least 30 credit hours of required business courses at NKU. For evaluation of transferred courses to meet this requirement and the requirement for 64 credit hours of non-business courses, transfer students should make an advising appointment with the college of business advising center as soon as transcripts from previous institutions are available.

Students in all AACSB-accredited business majors complete a group of eight core courses designed to provide a comprehensive overview of business.

All accounting majors must complete the accounting track or the accounting information systems track in addition to the other requirements for the major. If a particular course has a prerequisite that is not listed as part of the major, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be satisfied IN ADDITION TO other program requirements.

**Degree Requirements: B.S. – Accounting and the required minor in Business Administration**

<table>
<thead>
<tr>
<th>Selective Admission Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 101 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101 College Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAT 114 Finite Mathematics Prerequisite: C- or better in MAT 109 or ACT ≥ 23</td>
<td>3</td>
</tr>
<tr>
<td>ACC 200 Principles of Accounting I-Financial Prerequisite: BIS 101</td>
<td>3</td>
</tr>
<tr>
<td>ACC 201 Principles of Accounting II-Managerial</td>
<td>3</td>
</tr>
<tr>
<td>BUS 230 Legal Environment</td>
<td>3</td>
</tr>
<tr>
<td>ECO 200 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 201 Principles of Microeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Science with a major in Finance and the required minor in Business Administration

The major in finance offers a rich variety of career possibilities for graduates. The field includes jobs in corporate finance, securities, commercial banking, and financial planning. In corporate finance, positions may be in the treasurer’s office or in the chief financial officer’s office, and may involve management of financial assets, capital budgeting, project financing, mergers and acquisitions, financial risk management, and international finance. Careers in the securities industry include trading, securities analysis, and research. Banking careers may involve positions as a commercial loan officer, trust administrator, financial risk manager, or bank manager, or in the credit lending or bank operations departments. Investment bankers help corporations perform business transactions, make investment decisions, and raise venture capital. Careers in financial planning include those services offered to individuals and families to assist them in planning for and monitoring their financial futures. Typical services include savings and investments, insurance, retirement planning, and estate planning, all of which are essential in protecting against catastrophic loss.

In addition to courses to meet the selective admission for certification of the major and the business core courses, all students majoring in finance must complete the following: (1) 15 hours of core finance classes and (2) 9 hours of elective finance classes. Students intending to pursue a career in corporate finance or investments should consider choosing their electives from the following list: “FIN 355: Principles of Risk Management and Insurance,” “FIN 385: Financial Planning Process and Estate Planning,” “FIN 445: Retirement Planning and Employee Benefits,” “FIN 450: Advanced Investment Analysis” (by application only) and possibly taking ACC 320: Tax Planning as an additional course. Students considering careers in managerial finance should consider taking the following courses in addition to the finance electives: “ACC 202: Accounting Laboratory,” “ACC 300: Intermediate Accounting I,” “ACC 301: Intermediate Accounting II,” “ACC 320: Tax Planning,” “ACC 350: Management Cost Accounting I.”

Special admission requirements: Students desiring to enter the Bachelor of Science program in finance must meet selective admission requirements established by the Haile/U.S. Bank College of Business. These requirements are met by completing a set of 10 courses (listed below) with a minimum grade of C in each course and a minimum GPA of 2.50 across the set of courses. Prior to meeting these requirements, students are enrolled as “pre-majors.” Some of the selective admission courses can be used to satisfy general education requirements, and some satisfy partial requirements for the minor in business administration.

You should also know: A grade of C or better in all program courses in the finance major is required to earn the Bachelor of Science.

Students in all AACSB-accredited business majors complete a group of eight core courses designed to provide a comprehensive overview of business. If a particular course has a prerequisite that is not listed as part of the major, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be satisfied IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Finance and the required minor in Business Administration

<table>
<thead>
<tr>
<th>Selective Admission Courses</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CMST 101 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101 College Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAT 114 Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: C or better in MAT 109 or ACT ≥23</td>
<td></td>
</tr>
<tr>
<td>ACC 200 Principles of Accounting I-Financial</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: BIS 101</td>
<td></td>
</tr>
<tr>
<td>ACC 201 Principles of Accounting II-Managerial</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accounting Track</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 320 Tax Planning</td>
<td>3</td>
</tr>
<tr>
<td>Accounting Elective – select one course from the following: ACC 330 Fraud Examination</td>
<td>3</td>
</tr>
<tr>
<td>ACC 420 Advanced Tax Planning</td>
<td>3</td>
</tr>
<tr>
<td>ACC 450 Management Cost Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 340 Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 371 Traditional Grammar</td>
<td>3</td>
</tr>
<tr>
<td>Global Focus Elective – select one course from the following: ECO 340 International Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 344 Comparative Economic Systems</td>
<td>3</td>
</tr>
<tr>
<td>FIN 415 International Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGT 360 Comparative International Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 360 International Marketing</td>
<td>3</td>
</tr>
<tr>
<td>PSC 410 International Political Economy</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL TRACK CREDITS</td>
<td>12</td>
</tr>
<tr>
<td>Total Core Credits</td>
<td>74-76</td>
</tr>
<tr>
<td>TOTAL CREDITS</td>
<td>86-88</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accounting Information Systems Track</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INF 110 Business Programming</td>
<td>3</td>
</tr>
<tr>
<td>INF 282 Introduction to Databases</td>
<td>3</td>
</tr>
<tr>
<td>BIS 310 Information Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BIS 380 Quantitative Analysis with Excel</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL TRACK CREDITS</td>
<td>12</td>
</tr>
<tr>
<td>Total Core Credits</td>
<td>74-76</td>
</tr>
<tr>
<td>TOTAL CREDITS</td>
<td>86-88</td>
</tr>
</tbody>
</table>
Accounting and Finance Minors

**Minor in Accounting**
The required courses in accounting provide a general introduction to accounting in organizations. Elective courses allow students to pursue their own particular interests in the discipline. Courses that are counted in partial fulfillment of the business administration major may not be counted as fulfilling part of the accounting minor.

If a particular course has a prerequisite that is not listed as part of the major, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be satisfied IN ADDITION TO other program requirements.

<table>
<thead>
<tr>
<th>Requirements for Minor: Accounting</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 200 Principles of Accounting I-Financial</td>
<td>3</td>
</tr>
<tr>
<td>ACC 200 Principles of Accounting I-Managerial</td>
<td>3</td>
</tr>
<tr>
<td>ACC 202 Accounting Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ACC 300 Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>Accounting Electives – select four courses from the following:</td>
<td></td>
</tr>
<tr>
<td>ACC 301 Intermediate Accounting II</td>
<td></td>
</tr>
<tr>
<td>ACC 310 Accounting Information Systems</td>
<td></td>
</tr>
<tr>
<td>ACC 320 Tax Planning</td>
<td></td>
</tr>
<tr>
<td>ACC 330 Fraud Examination</td>
<td></td>
</tr>
<tr>
<td>ACC 350 Management Cost Accounting I</td>
<td>12</td>
</tr>
<tr>
<td>ACC 400 Auditing</td>
<td></td>
</tr>
<tr>
<td>ACC 420 Advanced Tax Planning</td>
<td></td>
</tr>
<tr>
<td>ACC 430 Accounting for Nonprofit Institutions</td>
<td></td>
</tr>
<tr>
<td>ACC 450 Management Cost Accounting II</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 22

**Minor in Finance**
This minor has two required courses and an additional four finance electives numbered 300 and above. Courses that are counted in partial fulfillment of the major in business administration may not be counted as fulfilling part of the finance minor.

<table>
<thead>
<tr>
<th>Requirements for Minor: Finance</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 305 Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>FIN 345 Investment and Security Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Select four 300/400-level FIN courses</td>
<td>12</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 18

**Accounting and Finance Postbaccalaureate Certificates**
Any student with a prior undergraduate degree is eligible to pursue postbaccalaureate certificate programs in the Haile/U.S. Bank College of Business. Students enrolled in certificate programs must meet all relevant course prerequisites except class standing and certification. Waivers may be given for program courses completed as part of a previous undergraduate degree. Students with a non-business undergraduate degree may need to complete additional preparatory courses. All coursework must be taken for a letter grade and must be completed within eight years.

**General Accounting Certificate**
The certificate in general accounting is designed for students who are interested in work as an accountant in a field other than public accounting. Such careers would include positions as an accountant in a corporation, a government agency, or a nonprofit agency. This set of courses is designed to provide students with accounting knowledge necessary to become an accountant. Students enrolled in this certificate program must meet all course prerequisites except class standing and certification.

<table>
<thead>
<tr>
<th>Requirements for Certificate: General Accounting</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 300 Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACC 301 Intermediate Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACC 310 Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ACC 320 Tax Planning</td>
<td>3</td>
</tr>
<tr>
<td>ACC 350 Management Cost Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>Select one 300/400-level ACC course</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 18

*Students who have not completed all of the prerequisite requirements will need to complete those courses in addition to the courses listed here.*

**Finance Certificate**
The certificate in finance is designed for those interested in corporate finance. The courses are designed to provide students with an understanding of corporate finance, investments, and institutions. Students enrolled in this certificate program must meet all course prerequisites except class standing and certification. Students with a business degree may have already completed some of the requirements, in which case they will be waived.

<table>
<thead>
<tr>
<th>Requirements for Certificate: Finance</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 305 Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>FIN 315 Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 345 Investment and Security Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FIN 365 Financial Markets and Institutions</td>
<td>3</td>
</tr>
<tr>
<td>FIN 415 International Finance</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 15

*Students who have not completed all of the prerequisite requirements will need to complete those courses in addition to the courses listed here.*
Department of Construction Management

Location: Business Academic Center 392
Telephone: 859-572-5440
Email Address: cmgt@nku.edu
Web Address: http://constructionmgmt.nku.edu
Department Chair: Ihab M. H. Saad
Other Key Personnel:
Department Coordinator: Melissa S. Decker
Lab Technician: Mike Lehrter
Full-Time Faculty: James Bratdmueller, Sean Foley, Austra McFarland, Daryl Orth, Lewis Edward Workman

Undergraduate Programs:

Majors:
- Bachelor of Science in Construction Management

Minor:
- Construction Management

Associate of Applied Science
- Construction Technology

Thinking about the discipline: Programs offered by the Department of Construction Management employ active learning, requiring students not only to read about the topics they are studying but also engage in those activities. The programs incorporate real-life projects in the classroom and require lab experiences as well as cooperative education or internship experiences. For additional information on the major, please visit the department’s website.

Special opportunities for our students: The Department of Construction Management offers awards for outstanding undergraduates. Multiple scholarships are offered through the department including the Greater Cincinnati Home Builders Association Scholarship, Macy’s Rudolph V. Javosky Memorial Endowed Scholarship, and the Spirit of Construction Foundation Scholarship. Students have the opportunity to participate in the Construction Management Association student organization as well as the sub-organizations within that umbrella group including the Mechanical Contractors of America, the National Association of Homebuilders, and the American Concrete Institute student organizations.

Construction Management Majors

Bachelor of Science in Construction Management
Available in both traditional and fully-online formats.
NKU’s construction management program is a nationally recognized program, accredited by the American Council for Construction Education that provides its students with both the theoretical and hands-on skills to manage a construction project from inception to completion. The program covers the technical aspects of project design and execution in addition to management and administration aspects resulting in project completion on time, within budget, and meeting the client’s expectations.

This balanced curriculum of 120 credit hours includes a minimum of six hours of co-op, allowing the students to learn onsite and apply what they learn in class to a real-world project. Students graduating from the program can work toward earning a minor in business, marketing, or entrepreneurship to complement their construction education. Graduates occupy positions such as project engineers, project managers, project superintendents, construction estimators, construction schedulers, and construction safety officers.

Students must fulfill all requirements for the major and either the standard business component or the minor in entrepreneurial studies offered by the Department of Management. Students must earn a C or better in all core courses.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Construction Management

<table>
<thead>
<tr>
<th>Core Courses in Construction Management</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMGT 101 Introduction to Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 120 Construction Materials and Methods I</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 121 Construction Materials and Methods II</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 220 Plane Surveying</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 222 Architectural Drafting and CAD</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 225 Construction Safety</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 228 Soil and Foundation Interaction</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 300 Cooperative Construction Management (two 0 credit-hour sessions)</td>
<td>0</td>
</tr>
<tr>
<td>CMGT 303 Construction Contracts, Documents and Administration</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 305 Mechanical Systems for Construction</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 306 Electrical Systems for Construction</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 320 Construction Estimating</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 322 Structural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 324 Construction Scheduling</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 329 Construction Equipment</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 415 Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 420 Construction Cost Control</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 422 Advanced Project Controls</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 431 Capstone Project: Residential and Commercial Construction</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three courses from the following:
- CMGT 323 Land Planning and Development
- CMGT 399 Independent Study in Construction Management (with approval of chair)
- CMGT 400 Building Codes
- CMGT 427 Construction Law and Legal Contracts

Total: 96 credits

Credits in Construction Management: 63

Core Courses in Other Disciplines

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 119</td>
<td>Precalculus Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>GLY 120/120L</td>
<td>This Dangerous Earth Laboratory*</td>
<td>4</td>
</tr>
<tr>
<td>PHY 211</td>
<td>General Physics with Laboratory I*</td>
<td>5</td>
</tr>
<tr>
<td>Select one course from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAT 128</td>
<td>Calculus A</td>
<td>3</td>
</tr>
<tr>
<td>MAT 129</td>
<td>Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>STA 205</td>
<td>Introduction to Statistical Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

*Indicates core course in other discipline.
**Construction Management Minor**

**Minor in Construction Management**

<table>
<thead>
<tr>
<th>Requirements for Minor: Construction Management</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMGT 101 Introduction to Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 120 Construction Materials and Methods I</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 121 Construction Materials and Methods II</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 222 Architectural Drafting and CAD</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 303 Construction Contracts, Documents and Administration</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 320 Construction Estimating</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 324 Construction Scheduling</td>
<td>3</td>
</tr>
<tr>
<td>Select one CMGT course approved by advisor and not listed above</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

*Required course; counts toward general education credit.*

---

**Bachelor of Science in Construction Management – Surveying Track**

This program is a partnership degree program between Cincinnati State Technical and Community College and NKU. Students pursuing this track must complete the associate degree in civil engineering technology – surveying from CSTCC and the advanced surveying certificate program from CSTCC. Students then transfer to NKU and complete additional coursework according to the articulation agreement between NKU and CSTCC. Graduates from this bachelor’s degree program will qualify to sit for the Professional Registration Test in Kentucky, Ohio, and Indiana after serving the proper residency under a licensed surveyor. Students interested in pursuing the Indiana surveyor’s license are required to take approximately three additional science courses as outlined by the state of Indiana.

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**Construction Management Associate Degree**

**Associate of Applied Science in Construction Technology**

Graduates of this associate degree program will comprehend the basic technology used to design and plan the construction of commercial buildings, residences, and other construction projects. Construction technicians provide services to engineers, architects, developers, construction materials suppliers, manufacturers, and distributors. This is the first half of the accredited baccalaureate program also offered in the Department of Construction Management.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

---

**Degree Requirements: A.A.S. – Construction Technology**

<table>
<thead>
<tr>
<th>Courses in Construction Management</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMGT 101 Introduction to Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 120 Construction Materials and Methods I</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 121 Construction Materials and Methods II</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 220 Plane Surveying</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 222 Architectural Drafting and CAD</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 225 Construction Safety</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 228 Soil and Foundation Interaction</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 301 Cooperative Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 303 Construction Contracts, Documents and Administration</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 305 Mechanical Systems for Construction</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 306 Electrical Systems for Construction</td>
<td>3</td>
</tr>
<tr>
<td>CMGT 320 Construction Estimating</td>
<td>3</td>
</tr>
<tr>
<td>Select two CMGT courses not listed above as approved by advisor</td>
<td>6</td>
</tr>
<tr>
<td><strong>Credits in Construction Management</strong></td>
<td><strong>42</strong></td>
</tr>
</tbody>
</table>

---

**Courses in Other Disciplines**

| MAT 119 Precalculus Mathematics | 3       |
| Phy 211 General Physics with Laboratory I* | 5       |
| BUS 330 Ethics: Managerial Decision Making | 3       |
| Select one course from the following*: |         |
| MAT 128 Calculus A               |         |
| MAT 129 Calculus I               | 3       |
| STA 205 Introduction to Statistical Methods |         |
| STA 212 Statistics for Business Applications I |         |
| **Credits in Other Disciplines**  | **14**  |

*Required course; counts toward general education credit.

<table>
<thead>
<tr>
<th><strong>TOTAL CREDITS</strong></th>
<th><strong>56</strong></th>
</tr>
</thead>
</table>

---

*Required course; counts toward general education credit.
DeCoMm of Management

Location: Business Academic Center 376
Telephone: 859-572-5114
Web Address: http://management.nku.edu
Department Chair: Bertie Greer

Other Key Personnel:
Director, Master of Science in Executive Leadership and Organizational Change: Ken Rhe
Department Coordinator: Deanna Karam

Full-Time Faculty: Ben Baran, Carole Cangioni, Michael Carrell, John Clarkin, Rodney D’Souza, Matthew Ford, Richard Gilson, Bertie Greer, Stephanie Hughes, Dan Kent, Denise Luethge, Lou Manchise, Stephen Mueller, Kenneth Rhe, Stephen Roush, Tracey Sigler, Rob Snyder, Sandra Spataro

Undergraduate Programs:

Majors:
- Bachelor of Science
- Business Administration
- Entrepreneurship
- Human Resource Management
- Management

Minors:
- Entrepreneurial Studies
- Management

Postbaccalaureate Certificate:
- Entrepreneurial Studies

Management Majors

Bachelor of Science with a major in Business Administration and the required minor in Business Administration

The major in business administration is designed to permit students to create a program of interdisciplinary study from courses at the 300 level or above in the Haile/U.S. Bank College of Business appropriate to their academic interests and career goals. The Bachelor of Science in business administration may be of particular value to transfer students who prefer a broad overview of business courses as opposed to depth in a particular area.

You should also know: The major in business administration can be completed at night and through the Program for Adult Centered Education. If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Business Administration and the required minor in Business Administration

<table>
<thead>
<tr>
<th>Selective Admission Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 101</td>
<td>Public Speaking</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing</td>
</tr>
<tr>
<td>MAT 114</td>
<td>Finite Mathematics</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: C or better in MAT 109 or ACT ≥23</td>
</tr>
<tr>
<td>ACC 200</td>
<td>Principles of Accounting I-Financial</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: BIS 101</td>
</tr>
<tr>
<td>ACC 201</td>
<td>Principles of Accounting II-Managerial</td>
</tr>
<tr>
<td>BUS 230</td>
<td>Legal Environment</td>
</tr>
</tbody>
</table>

Thinking about the discipline: Programs cover all aspects of managing organizations. Students will develop skills in:
- Leadership
- Team building and collaboration
- Written and oral communication
- Problem solving
- Creativity
- Critical thinking
- Strategic decision making

Special opportunities for our students: Students may choose to engage in internship or cooperative education activities. Students in all majors have the option of participating in discipline-specific student organizations to prepare themselves as professionals in the field. Each year, the department faculty selects the Outstanding Student of the Year in each major.

Special admission requirements: Students desiring to enter the Bachelor of Science programs in the Department of Management must meet selective admission requirements established by the Haile/U.S. Bank College of Business. These requirements are met by completing a set of 10 courses with a minimum grade of C in each course and a minimum GPA of 2.50 across the set of courses. Prior to meeting these requirements, students are enrolled as “pre-majors.” Some selective admission courses can be used to satisfy general education requirements, and some satisfy partial requirements for the minor in business administration.

You should also know: Students in all AACSB-accredited business majors complete a group of eight core courses designed to provide a comprehensive overview of business.

<table>
<thead>
<tr>
<th>Credits for Selective Admission</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 200 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 201 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 291 Advanced College Writing</td>
<td>3</td>
</tr>
<tr>
<td>STA 212 Statistics for Business Applications I</td>
<td>3</td>
</tr>
</tbody>
</table>

Credits in Business 24

College of Business Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 300</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BUS 330</td>
<td>Ethics: Managerial Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>ECO 305</td>
<td>International Context for Business</td>
<td>3</td>
</tr>
<tr>
<td>FIN 305</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGT 300</td>
<td>Behavior in Organizations: Understanding Organizational Life</td>
<td>3</td>
</tr>
<tr>
<td>MGT 305</td>
<td>Operations Management in Business</td>
<td>3</td>
</tr>
<tr>
<td>MGT 490</td>
<td>Business Policy</td>
<td>3</td>
</tr>
<tr>
<td>MKT 205</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Credits for Selective Admission 30

Total Credits 81

Credits in Business 24

Courses for Business Administration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 205</td>
<td>Personal Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 205</td>
<td>Business Management Principles</td>
<td>3</td>
</tr>
<tr>
<td>BIS 380</td>
<td>Quantitative Analysis with Excel</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select seven 300- or 400-level courses from AACSB-accredited programs</td>
<td>21</td>
</tr>
</tbody>
</table>

Credits for Business Administration 27

Total Credits 81
Bachelor of Science with a major in Entrepreneurship and the required minor in Business Administration

The Bachelor of Science in entrepreneurship prepares students for the challenges of today’s fast-paced and uncertain economic environment where competition is based on opportunity recognition, innovation, speed to market, and entrepreneurial drive. In this innovative degree program, the focus is on developing a needed skill set, and an entrepreneurial mindset as well as creating value in the marketplace. Students learn to capitalize on uncertainty rather than avoid it and embrace the learning that comes from taking calculated risks. The curriculum is multidisciplinary and designed to give students an opportunity to develop their own creative skills while applying basic business principles to the challenges of starting a new business, growing a business, or managing a family business. The program emphasizes the new venture-creation model and its application in small or large companies and in profit and not-for-profit organizations. Course topics include idea generation, opportunity recognition, feasibility analysis, business plan development, venture financing, early stage strategies, corporate venturing, and management of innovation. Students have the chance to meet and interact with entrepreneurial leaders in the region and throughout the world.

The entrepreneurship major prepares its graduates for a wide range of business-related career paths. Some are prepared to start their own business, either soon after graduation or at some point in the future. Some are prepared to begin a more traditional leadership path where the self-reliance, initiative, creativity, and communication skills developed in this program are viewed as positive qualities by prospective employers. Still others are prepared to apply their newly developed business planning and analysis skills to obtain entry-level positions with consulting firms, commercial lending institutions, and private equity firms. The major in entrepreneurship provides students with career options not available to students graduating with traditional business degrees.

You should also know: The major in entrepreneurship can be completed at night. Entrepreneurship majors are required to complete one of three tracks: (1) venture management track, (2) marketing track, or (3) business analytics track. If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Entrepreneurship and the required minor in Business Administration

<table>
<thead>
<tr>
<th>Selective Admission Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 101 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101 College Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAT 114 Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>ACC 200 Principles of Accounting I-Financial</td>
<td>3</td>
</tr>
<tr>
<td>ACC 201 Principles of Accounting II-Managerial</td>
<td>3</td>
</tr>
<tr>
<td>BUS 230 Legal Environment</td>
<td>3</td>
</tr>
<tr>
<td>ECO 200 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 201 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 291 Advanced College Writing</td>
<td>3</td>
</tr>
<tr>
<td>STA 212 Statistics for Business Applications I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits for Selective Admission</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>College of Business Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 300 Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BUS 330 Ethics: Managerial Decision-Making</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Core Courses for Entrepreneurship</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 205 Business Management Principles</td>
<td>3</td>
</tr>
<tr>
<td>BIS 380 Quantitative Analysis with Excel</td>
<td>3</td>
</tr>
<tr>
<td>MGT 240 Managerial Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENTP 201 Principles of Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ENTP 310 Enterprise Creation</td>
<td>3</td>
</tr>
<tr>
<td>ENTP 375 Marketing Strategies for Entrepreneurial Businesses</td>
<td>3</td>
</tr>
<tr>
<td>ENTP 376 New Venture Financing</td>
<td>3</td>
</tr>
<tr>
<td>ENTP 433 New Venture Management</td>
<td>3</td>
</tr>
<tr>
<td>ENTP 497 Writing the Business Plan</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits for Entrepreneurship</strong></td>
<td><strong>27</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Venture Management Track</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTP 320 Social Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ENTP 378 Emerging Enterprise Law</td>
<td>3</td>
</tr>
<tr>
<td>ENTP 379 Technology and Innovation Management</td>
<td>9</td>
</tr>
<tr>
<td>ENTP 394 Topics: Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ENTP 396 Entrepreneurial Internship</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL TRACK CREDITS</strong></td>
<td><strong>9</strong></td>
</tr>
<tr>
<td><strong>TOTAL CORE CREDITS</strong></td>
<td><strong>81</strong></td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>90</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Marketing Track</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 310 Building and Managing Customer Relations</td>
<td>3</td>
</tr>
<tr>
<td>MKT 320 Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKT 370 Social Media</td>
<td>3</td>
</tr>
<tr>
<td>MKT 350 Creating Value through Product and Price</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL TRACK CREDITS</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td><strong>TOTAL CORE CREDITS</strong></td>
<td><strong>81</strong></td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>93</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Business Analytics Track</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INF 282 Introduction to Databases</td>
<td>3</td>
</tr>
<tr>
<td>BIS 310 Information Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BIS 330 IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>BIS 430 Workflow Design and Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL TRACK CREDITS</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td><strong>TOTAL CORE CREDITS</strong></td>
<td><strong>81</strong></td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>93</strong></td>
</tr>
</tbody>
</table>

Bachelor of Science with a major in Human Resource Management and the required minor in Business Administration

The Bachelor of Science in human resource management is designed to prepare human resource professionals to deal with the challenge of managing today’s workforce in a small but growing business, corporate or nonprofit entity, or multinational organization. The program content is designed to provide comprehensive coverage of the major functional areas of human resource management such as staffing, employee training and development, wages, and benefits. In addition, students will understand and develop personal competencies such as business communication skills and skills in managing diversity. Students also will have the opportunity to gain...
practical experience in human resource management by completion of a
rigorous and required internship program. The Bachelor of Science in HRM at
NKU is one of only 263 programs in the world that has been acknowledged as
being in alignment with the Society for Human Resource Management HR
Curriculum Guidebook and Templates.

You should also know: The major in human resource management can be
completed at night.

If a particular course has a prerequisite that is not listed as part of the major
requirements, then the prerequisite is given in italics below the course for
which it is a prerequisite. These prerequisites are not included in the program
totals in the table below, but they must be completed in ADDITION TO other
program requirements.

Degree Requirements: B. S. – Human Resource Management

Select 9 credit hours from the following:

MGT 340
HRM 396
HRM 304
HRM 303
HRM 302
HRM 300
BIS 380

Courses for Human Resource Management

MGT 205 Business Management Principles 3
BIS 380 Quantitative Analysis with Excel 3
HRM 300 Introduction to Labor-Management Relations 3
HRM 301 Training and Employee Development 3
HRM 302 Recruiting and Selecting Human Resources 3
HRM 303 Employment Law 3
HRM 304 Compensation and Benefits 3
HRM 396 Human Resource Management Internship 3
MGT 340 Human Resource Administration 3
HRM 480 Strategic Human Resources 3

Select 9 credit hours from the following:

MGT 240 Managerial Communication 9
Any 300/400-level MGT or HRM courses

Credits for Selective Admission 30

Credits in Business 24

Bachelor of Science with a major in Management and the
required minor in Business Administration

The Bachelor of Science in management is designed to provide graduates
with the fundamental personal, interpersonal, conceptual, and technical
knowledge and skills they need to manage organizational operations and
resources effectively. All students are expected to master a variety of
business communication forms (for example, formal presentations, written
reports) and to develop basic behavioral competencies necessary for those
who intend to plan, organize, lead, and control the work of others in an
organization. Management students must also analyze complicated business
problems and seek to become adept at using both quantitative and qualitative
decision-making techniques. Likewise, current and historically important
theories of organization and human work behavior are studied so that
students might acquire a context for understanding the complex and dynamic
processes occurring in contemporary organizations. Required courses in the
management major place an emphasis on learning that should facilitate
understanding and applying various management techniques and principles
irrespective of organization or industry type.

You should also know: The major in management can be completed at
night.

If a particular course has a prerequisite that is not listed as part of the major
requirements, then the prerequisite is given in italics below the course for
which it is a prerequisite. These prerequisites are not included in the program
totals in the table below, but they must be completed in ADDITION TO other
program requirements.

Degree Requirements: B.S. – Management and the required
minor in Business Administration

Select 9 credit hours from the following:

MGT 205 Business Management Principles 3
BIS 380 Quantitative Analysis with Excel 3
HRM 300 Introduction to Labor-Management Relations 3
HRM 301 Training and Employee Development 3
HRM 302 Recruiting and Selecting Human Resources 3
HRM 303 Employment Law 3
HRM 304 Compensation and Benefits 3
HRM 396 Human Resource Management Internship 3
MGT 340 Human Resource Administration 3
HRM 480 Strategic Human Resources 3

Select 9 credit hours from the following:

MGT 240 Managerial Communication 9
Any 300/400-level MGT or HRM courses

Credits for Selective Admission 30

Credits in Business 24

Courses for Management

BIS 380 Quantitative Analysis with Excel 3
MGT 205 Business Management Principles 3
MGT 240 Managerial Communication 3
MGT 306 Project Management 3
Management Minors

Minor in Entrepreneurial Studies
The minor in entrepreneurial studies is especially valuable for students in other colleges who are inclined to apply their passion to their own business rather than that of someone else. The focus is on generating ideas based on creativity, opportunity identification, feasibility studies, start-up activities, early-stage strategies, and new initiatives within corporate environments. Students have unique opportunities to be involved in business partnerships and to find creative solutions to real business problems while completing their degrees. This minor is offered in a traditional classroom format or as an online minor. For more information about the online minor, contact Educational Outreach. Students must declare format.

Requirements for Minor: Entrepreneurial Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTP 150</td>
<td>Overview of Accounting</td>
<td>3 or 6</td>
</tr>
<tr>
<td>ACC 200 and</td>
<td>Principles of Accounting I-Financial</td>
<td></td>
</tr>
<tr>
<td>ACC 201</td>
<td>Principles of Accounting II-Managerial</td>
<td></td>
</tr>
<tr>
<td>ENTP 201</td>
<td>Principles of Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ENTP 310</td>
<td>Enterprise Creation</td>
<td>3</td>
</tr>
<tr>
<td>ENTP 499</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>Select two courses from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENTP 320</td>
<td>Social Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>ENTP 375</td>
<td>Marketing Strategies for Entrepreneurial Businesses</td>
<td></td>
</tr>
<tr>
<td>ENTP 376</td>
<td>New Venture Financing</td>
<td></td>
</tr>
<tr>
<td>ENTP 378</td>
<td>Emerging Enterprise Law</td>
<td>6</td>
</tr>
<tr>
<td>ENTP 379</td>
<td>Technology and Innovation Management</td>
<td></td>
</tr>
<tr>
<td>MKT 310</td>
<td>Building and Managing Customer Relations</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL CREDITS 18 or 21

Minor in Management
Available in both traditional and fully-online formats.
The required courses in the management minor focus primarily on the behavioral aspects of management, that is, the study of why people behave the way they do in work organizations and how managers can behave to effectively influence others and achieve organizational goals. Two elective courses allow students to explore areas of individual interest. This minor is offered in a traditional classroom format or as an online minor. For more information about the online minor, contact Educational Outreach. Students must declare format.

Requirements for Minor: Management

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 220</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>MGT 205</td>
<td>Business Management Principles</td>
<td>3</td>
</tr>
<tr>
<td>MGT 300</td>
<td>Behavior in Organizations: Understanding</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Organizational Life</td>
<td></td>
</tr>
<tr>
<td>MGT 310</td>
<td>Managerial Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGT 340</td>
<td>Human Resource Administration</td>
<td>3</td>
</tr>
<tr>
<td>Select two courses from 300/400-level MGT, ENTP, and HRM courses</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL CREDITS 37-39

Management Postbaccalaureate Certificate

Postbaccalaureate Certificate in Entrepreneurial Studies
Available in both traditional and fully-online formats.
Any student with a prior undergraduate degree is eligible to pursue postbaccalaureate certificate programs in the Haile/U.S. Bank College of Business. Students enrolled in certificate programs must meet all relevant course prerequisites except class standing and certification. Waivers may be given for program courses completed as part of a previous undergraduate degree. Students with a non-business undergraduate degree may need to complete additional preparatory courses. All coursework must be taken for a letter grade and must be completed within eight years.

For more information about the online postbaccalaureate certificate, contact Educational Outreach at 859-392-2400 or nkuonline@nku.edu.

Requirements for Postbaccalaureate Certificate: Entrepreneurial Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTP 150</td>
<td>Overview of Accounting</td>
<td>3 or 6</td>
</tr>
<tr>
<td>ACC 200 and</td>
<td>Principles of Accounting I-Financial</td>
<td></td>
</tr>
<tr>
<td>ACC 201</td>
<td>Principles of Accounting II-Managerial</td>
<td></td>
</tr>
<tr>
<td>ENTP 201</td>
<td>Principles of Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ENTP 310</td>
<td>Enterprise Creation</td>
<td>3</td>
</tr>
<tr>
<td>ENTP 375</td>
<td>Marketing Strategies for Entrepreneurial Businesses</td>
<td></td>
</tr>
<tr>
<td>ENTP 433</td>
<td>New Venture Management</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL CREDITS 15 or 18
Department of Marketing, Economics and Sports Business

**Location:** Business Academic Center 314  
**Telephone:** 859-572-6582  
**Email Address:** markets@nku.edu  
**Web Address:** http://mest.nku.edu  
**Department Chair:** Doris Shaw  
**Other Key Personnel:**  
Director, Center for Economic Education: Nancy Lang  
Director, Sports Business Program: Jennifer Gardner  
Director, Marketing Research Partnership Program: Aron Levin  
Department Coordinator: Teresa Huddleston  
**Full-Time Faculty:** Abdullah Al-Bahrani, Gary Clayton, Joe Cobbs, Linda Dynan, Jennifer Gardner, Chip Heath, Nancy Lang, Aron Levin, Greg Martin, Banwari Mittal, Margaret Myers, Bridget Nichols, David Raska, Doris Shaw, Qing Su, Eileen Weisenbach Keller  

**Undergraduate Programs:**

**Majors:**  
Bachelor of Science  
Economics  
Marketing  
Comprehensive Marketing Track  
Marketing Research Track  
Sports Business  
**Minors:**  
Economics  
Marketing  
Sports Business  
**Postbaccalaureate Certificates:**  
Applied Economics and Public Policy  
Marketing Research  
Sports Business

**Thinking about the discipline:** Marketing, economics, and sports business – why are these academic degree programs in the same department? Not by accident, we assure you. All three majors stem from the study of the markets in which business and society function. The discipline of economics provides the foundation for the way people think about all kinds of markets. It’s not too much to say that the general practice of marketing is based in large part on economic principles and shaped by national and global economic policy. The business of sports, particularly professional sports, has its own unique configuration of economic conditions – a bit different from conventional consumer markets – that govern competition. Of course, each major is different, but all three share an emphasis on key fundamentals that give our graduates a competitive advantage in the job market or graduate school admission: learning by doing, both in the classroom and through internships; superior research skills; high-level analytical and critical thinking; clear, concise, and compelling communication skills; collaborative teamwork skills; and a grounding philosophy of ethical, sustainable, and global competition.  

**Special opportunities for our students:** Students in all three degree programs have the opportunity to participate in internship programs. Internship opportunities are very diverse and are continually upgraded through the efforts of our professional advisory boards and faculty. The department also has active student organizations in each major that provide professional networking opportunities at regular meetings and activities. Each year, the department faculty select the outstanding student of the year in each major.  

**Special admission requirements:** Students desiring to enter the Bachelor of Science programs in marketing or sports business must meet selective admission requirements established by the Haile/U.S. Bank College of Business. These requirements are met by completing a set of 10 courses with a minimum grade of C- in each course and a minimum GPA of 2.50 across the set of courses. Prior to meeting these requirements, students are enrolled as “pre-majors.” Some of the selective admission courses can be used to satisfy general education requirements, and some satisfy partial requirements for the minor in business administration. The economics program has no special admission requirements.  

**You should also know:** A grade of C or better in all program courses in the marketing and sports business majors is required to earn the Bachelor of Science. Students of economics must earn at least a C- in all of their major courses and a minimum of 2.25 GPA in the major. Students in all AACSB-accredited business majors complete a group of eight core courses designed to provide a comprehensive overview of business.

**Marketing, Economics, and Sports Business Majors**

**Bachelor of Science with a major in Economics**  
The Bachelor of Science in economics is excellent preparation for any career that requires knowledge of decision-making methods, the ability to analyze data relevant to making those decisions, and the ability to reason critically about the results. These careers include work as private and public sector economists, as well as employment in other jobs that involve the study and forecasting of economic conditions and trends. In the private sector, successful organizations require personnel with the skills to gather and analyze information about the economic environment that can be used to develop business strategy and policy. In the public sector, virtually every decision made by governmental bodies requires an analysis of its economic ramifications.  
The economics degree program is designed to provide flexibility and ease of access to a wide variety of minors. Economics majors can choose a minor and additional elective courses in a field that fits their career goals – for example, those with an interest in environmental policy can elect a minor in environmental studies. Business administration is a popular minor for those with career interests in the private sector. All students are strongly encouraged to discuss their career goals with economics faculty for guidance in choosing an appropriate minor.  

For students who plan to continue their education with a graduate degree, economics is a good choice for a wide variety of fields. A masters or Ph.D. in economics expands possibilities for many careers in the public and private sectors. Students interested in graduate-level economics study are advised to minor in mathematical sciences to strengthen their credentials for admission to the best programs. Because of its emphasis on research and analytical reasoning, economics traditionally ranks near the top of undergraduate degrees earned by successful applicants to schools of law. The program is also sufficiently flexible to accommodate a double major – for example, economics and finance for students interested in careers in the financial services industry or working in public-sector financial regulation.

**Economics program course group:** All students complete a common economics knowledge core of 9 courses (27 credit hours) plus three additional ECO elective courses (nine credit hours). The program provides up to 33 credit hours at the 300/400 level that can be used for minors or a double major.
Students should consider using an internship (ECO 396) to fulfill an elective requirement in the economics degree program. The internship option allows students to gain practical work experience and real-world networking exposure at the local, regional, national, or international level while under the guidance and supervision of an expert professional. Internships can also be targeted to the area of the student’s minor.

**You should also know:** Students of economics must earn at least a C- in all of their major courses, and a minimum of 2.25 GPA in the major.

**Degree Requirements: B.S. – Economics**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 200</td>
<td>3</td>
</tr>
<tr>
<td>ECO 201</td>
<td>3</td>
</tr>
<tr>
<td>STA 205</td>
<td>3</td>
</tr>
<tr>
<td>STA 212</td>
<td>3</td>
</tr>
<tr>
<td>ECO 300</td>
<td>3</td>
</tr>
<tr>
<td>ECO 301</td>
<td>3</td>
</tr>
<tr>
<td>ECO 310</td>
<td>3</td>
</tr>
<tr>
<td>Select three ECO 300/400/500-level courses</td>
<td>6</td>
</tr>
<tr>
<td>STA 314</td>
<td>3</td>
</tr>
<tr>
<td>ECO 311</td>
<td>3</td>
</tr>
<tr>
<td>ECO 494</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

**Bachelor of Science with a major in Marketing and the required minor in Business Administration**

In today’s hyper-competitive global business environment, it is becoming very clear that for any organization to prosper, it must adopt a market orientation as its guiding business philosophy. Being market oriented simply means that an organization considers the needs and wants of its customers as crucial input in every decision that it makes. To successfully accomplish this goal, the organization must develop and nurture close relationships with its customers. Marketers are literally the interface between the organization and its customers. A career in marketing, no matter which of the dozens of different career paths one chooses to follow, is at its heart a career in strategically creating and managing these relationships.

**You should also know:** A grade of C or better in all program courses in the marketing major is required to earn the Bachelor of Science in marketing. Students are required to complete one of the two tracks: (1) comprehensive marketing, or (2) marketing research.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION to other program requirements.

**Degree Requirements: B.S. – Marketing and the required minor in Business Administration**

### Selective Admission Courses  
**Credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 101</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101</td>
<td>3</td>
</tr>
<tr>
<td>MAT 114</td>
<td>3</td>
</tr>
<tr>
<td>ACC 200</td>
<td>3</td>
</tr>
<tr>
<td>ACC 201</td>
<td>3</td>
</tr>
<tr>
<td>BUS 230</td>
<td>3</td>
</tr>
<tr>
<td>ECO 200</td>
<td>3</td>
</tr>
<tr>
<td>ECO 201</td>
<td>3</td>
</tr>
<tr>
<td>ENG 291</td>
<td>3</td>
</tr>
<tr>
<td>STA 212</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits for Selective Admission</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

### College of Business Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 300</td>
<td>3</td>
</tr>
<tr>
<td>BUS 330</td>
<td>3</td>
</tr>
<tr>
<td>ECO 305</td>
<td>3</td>
</tr>
<tr>
<td>FIN 305</td>
<td>3</td>
</tr>
<tr>
<td>MGT 300</td>
<td>3</td>
</tr>
<tr>
<td>MGT 305</td>
<td>3</td>
</tr>
<tr>
<td>MGT 490</td>
<td>3</td>
</tr>
<tr>
<td>MKT 205</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits in Business</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

### Core Courses for Marketing

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 175</td>
<td>3</td>
</tr>
<tr>
<td>BIS 380</td>
<td>3</td>
</tr>
<tr>
<td>ENG 340</td>
<td>3</td>
</tr>
<tr>
<td>MKT 205</td>
<td>3</td>
</tr>
<tr>
<td>MKT 300</td>
<td>3</td>
</tr>
<tr>
<td>MKT 310</td>
<td>3</td>
</tr>
<tr>
<td>MKT 320</td>
<td>3</td>
</tr>
<tr>
<td>MKT 333</td>
<td>3</td>
</tr>
<tr>
<td>MKT 392</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits for Marketing</strong></td>
<td><strong>27</strong></td>
</tr>
<tr>
<td><strong>TOTAL CORE CREDITS</strong></td>
<td><strong>78</strong></td>
</tr>
</tbody>
</table>

### Comprehensive Marketing Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 480</td>
<td>3</td>
</tr>
<tr>
<td>MKT 307</td>
<td>3</td>
</tr>
<tr>
<td>MKT 308</td>
<td>3</td>
</tr>
<tr>
<td>MKT 370</td>
<td>3</td>
</tr>
<tr>
<td>MKT 492</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL TRACK CREDITS</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

**Total Core Credits: 78**

**TOTAL CREDITS: 84**

### Marketing Research Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 492</td>
<td>3</td>
</tr>
<tr>
<td>BIS 384</td>
<td>3</td>
</tr>
<tr>
<td>SOC 322</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL TRACK CREDITS</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

**Total Core Credits: 78**

**TOTAL CREDITS: 84**

**Bachelor of Science with a major in Sports Business and the required minor in Business Administration**

Who sets the price of a Cincinnati Bengals 50-yard-line ticket? Who creates game-night promotions for the Florence Freedom? Who created the marketing strategy for the United States Women’s National Soccer Team? Who decided that M&M’s would sponsor a NASCAR team? What is the answer to all these questions? People working in the business of sport, of course. Whether amateur or professional, global or local, the sports and recreation industry continues to grow rapidly and provide a rich variety of career paths for business students.
The sports business program offers students a unique opportunity to earn a business degree with a difference—a focus on the business of sport. The program prepares students for a variety of career and leadership opportunities in sports business. A small sampling of career paths in the sports industry includes sport marketing and promotions, event management, sports media, sports sponsorship, athlete services, sports commissions, sports attorneys, high school sports administration, sports accounting and finance, college athletic fundraising, ticket sales, sports equipment manufacturing and distribution, sports facilities and operations management, and team, league and college athletic management and marketing. All students are strongly encouraged to discuss their career goals with sports business faculty for guidance in searching for the perfect job.

All sports business students complete a common sports business knowledge core of 9 courses (27 credit hours) that includes a field internship. This internship experience allows students to gain practical work experience and real-world networking exposure to the sports business environment at the local, regional, national or international level while under the guidance and supervision of a successful sports professional. The remaining 9 hours of course credit serve as a specialization elective where the student is given the freedom to choose 3 classes from the college of business (one or more as an additional SPB course) that fit their area of career interest.

**You should also know:** A grade of C or better in all program courses in the sports business major is required to earn the Bachelor of Science in sports business.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

**Degree Requirements: B.S. – Sports Business and the required minor in Business Administration**

<table>
<thead>
<tr>
<th>Selective Admission Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 101 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101 College Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAT 114 Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: C- or better in MAT 109 or ACT≥23</td>
<td></td>
</tr>
<tr>
<td>ACC 200 Principles of Accounting I-Financial</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: BIS 101</td>
<td></td>
</tr>
<tr>
<td>ACC 201 Principles of Accounting II-Managerial</td>
<td>3</td>
</tr>
<tr>
<td>BUS 230 Legal Environment</td>
<td>3</td>
</tr>
<tr>
<td>ECO 200 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 201 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 291 Advanced College Writing</td>
<td>3</td>
</tr>
<tr>
<td>STA 212 Statistics for Business Applications I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Credits for Selective Admission** 30

<table>
<thead>
<tr>
<th>College of Business Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 300 Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BUS 330 Ethics: Managerial Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>ECO 305 International Context for Business</td>
<td>3</td>
</tr>
<tr>
<td>FIN 305 Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGT 300 Behavior in Organizations: Understanding Organizational Life</td>
<td>3</td>
</tr>
<tr>
<td>MGT 305 Operations Management in Business</td>
<td>3</td>
</tr>
<tr>
<td>MGT 490 Business Policy</td>
<td>3</td>
</tr>
<tr>
<td>MGT 205 Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Credits in Business** 24

<table>
<thead>
<tr>
<th>Courses for Sports Business</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 310 Introduction to Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>--OR--</td>
<td></td>
</tr>
</tbody>
</table>

| BIS 380 Quantitative Analysis with Excel   |         |
| ENG 340 Business Writing                   | 3       |
| MKT 310 Building and Managing Customer Relations | 3     |
| SPB 200 Rivalry and Rituals: International Sport | 3    |
| SPB 305 Sports Marketing and Promotions    | 3       |
| SPB 307 Moneyball: The Economics of Sport  | 3       |
| SPB 350 Development and Fundraising Strategies in Sports | 3 |
| SPB 480 Sports Business Strategies and Policies | 3     |
| SPB 396 Internship: Sports Business        | 3       |
| Select 3 additional college of business courses including one or more of the following: |  |
| SPB 309 Sports Public Relations            |         |
| SPB 330 Sports Legal Environment           |         |
| MKT 335 Event Planning and Management      | 9       |
| SPB 394 Topics: Sports Business Issues     |         |
| SPB 496 Sports Business Practicum (1-3 credits) |        |

**Credits for Sports Business** 36

| TOTAL CREDITS | 90 |

**Marketing, Economics, and Sports Business Minors**

**Minor in Economics**

The two required courses (ECO 200 and ECO 201) provide a general foundation in economic theory and application. Either can be used to fulfill a university general education requirement in the individual and society category. A broad choice of elective courses allows students to focus on their own specific interests in the field of economics.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

<table>
<thead>
<tr>
<th>Requirements for Minor: Economics</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 200 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: College-level mathematics course (MAT or STA)</td>
<td></td>
</tr>
<tr>
<td>ECO 201 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Select six 300/400/500-level ECO courses</td>
<td>18</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 24

**Minor in Marketing**

The three required courses provide a general introduction to organizations and their management, an overview of the practice of marketing in for-profit and not-for-profit organizations, and an analytically oriented understanding of consumer behavior in the marketplace. A wide choice of elective courses allows students to focus on their own specific interests in the field of marketing.

<table>
<thead>
<tr>
<th>Requirements for Minor: Marketing</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 205 Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 300 Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 320 Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>Select three courses from the following:</td>
<td></td>
</tr>
<tr>
<td>SPB 306 Sports Marketing and Promotion OR Any</td>
<td></td>
</tr>
<tr>
<td>300-400-level MKT courses</td>
<td>9</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 18

**Minor in Sports Business**

The business of sports encompasses teams at the major, minor, collegiate, recreational, high school and youth levels, as well as sports events, facilities,
sponsors, tourism, and specific legal issues. The minor in sports business equips students with the framework for strategic decision making in sports marketing, promotions, media/public relations, and a selection of other relevant industry issues tailored by the student’s elective selections.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

### Requirements for Minor: Sports Business

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 205</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>SPB 200</td>
<td>Rivalry and Rituals: International Sport</td>
<td>3</td>
</tr>
<tr>
<td>SPB 305</td>
<td>Sports Marketing and Promotion</td>
<td>3</td>
</tr>
<tr>
<td>SPB 307</td>
<td>Moneyball: The Economics of Sport</td>
<td>3</td>
</tr>
<tr>
<td>SPB 350</td>
<td>Development and Fundraising Strategies in Sport</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from the following:

- MKT 310 Building and Managing Customer Relations 3 credits
- MKT 335 Event Planning and Management 3 credits
- SPB 309 Sports Public Relations 3 credits
- SPB 330 Sports Legal Environment 3 credits
- Other as approved by department 3 credits

**TOTAL CREDITS 18**

### Marketing, Economics, and Sports Business Certificates

#### Postbaccalaureate Certificate in Applied Economics and Public Policy

The certificate in applied economics and public policy is designed for students interested in acquiring the knowledge and skills that will enhance their effectiveness in the area of applied economics and public policy. This set of courses provides students with the opportunity to develop critical-thinking and problem-solving skills and apply them to current economic issues.

Any student with a prior undergraduate degree is eligible to pursue the postbaccalaureate certificate in applied economics and public policy. Students must meet all relevant course prerequisites except class standing. Waivers may be given for program courses completed as part of a previous undergraduate degree. Students with a non-business undergraduate degree may need to complete additional preparatory courses. All coursework must be taken for a letter grade and must be completed within eight years.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

#### Requirements for Postbaccalaureate Certificate: Applied Economics and Public Policy

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 200</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MKT 205</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>ECO 201</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 301</td>
<td>Intermediate Microeconomics</td>
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</tr>
<tr>
<td>ECO 330</td>
<td>Urban and Regional Economics</td>
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<tr>
<td>ECO 342</td>
<td>Economic Development</td>
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<tr>
<td>ECO 394</td>
<td>Topics in Economics</td>
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<tr>
<td>ECO 494</td>
<td>Seminar in Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 18**

#### Postbaccalaureate Certificate in Marketing Research

Marketing research is the gathering and analyzing of information used to assist organizations in decision making and has become a critical function for both for-profit and not-for-profit organizations of all sizes. The research industry is especially vibrant in the Greater Cincinnati area and career opportunities continue to grow. The certificate in marketing research is designed to provide the academic foundation and skills needed for many entry-level positions in the marketing research industry.

Any student with a prior undergraduate degree is eligible to pursue the postbaccalaureate certificate in marketing research. Students must meet all relevant course prerequisites except class standing and certification. Waivers may be given for program courses completed as part of a previous undergraduate degree. Students with a non-business undergraduate degree may need to complete additional preparatory courses. All coursework must be taken for a letter grade and must be completed within eight years.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

#### Requirements for Postbaccalaureate Certificate: Marketing Research

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<tr>
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<tbody>
<tr>
<td>STA 212</td>
<td>Statistics for Business Applications I</td>
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<td>STA 213</td>
<td>Statistics for Business Applications II</td>
<td>3</td>
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<td>ENG 340</td>
<td>Business Writing</td>
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<tr>
<td>MKT 205</td>
<td>Principles of Marketing</td>
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</tr>
<tr>
<td>MKT 320</td>
<td>Consumer Behavior</td>
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<tr>
<td>MKT 392</td>
<td>Consumer Insights</td>
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<tr>
<td>MKT 492</td>
<td>Advanced Marketing Research</td>
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</table>

**TOTAL CREDITS 21**

#### Postbaccalaureate Certificate in Sports Business

The business of sport, whether amateur or professional, global, or local, continues to grow rapidly and provide a rich variety of career paths. This certificate program will prepare a student for a variety of entry-level career opportunities in sports business and recreation management. A small sampling of career paths in the sports industry includes event suppliers, event management and marketing, sports media, sports sponsorship, athlete services, sports commissions, sports lawyers, sports equipment manufacturing and distribution, sports and recreational facilities and facility suppliers, and team, league, and college athletics management and marketing.

#### Requirements for Postbaccalaureate Certificate: Sports Business

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tr>
<td>SPB 200</td>
<td>Rivalry and Rituals: International Sport</td>
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<tr>
<td>SPB 305</td>
<td>Sports Marketing and Promotion</td>
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<td>SPB 307</td>
<td>Moneyball: The Economics of Sports</td>
<td>3</td>
</tr>
<tr>
<td>SPB 350</td>
<td>Development and Fundraising Strategies in Sports</td>
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<tr>
<td>SPB 480</td>
<td>Sports Business Strategies and Policies</td>
<td>3</td>
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</tbody>
</table>

**TOTAL CREDITS 21**
Welcome to the College of Education and Human Services. Our three departments, 15 undergraduate and graduate program areas, and doctor of education constitute extraordinarily diverse pathways for our students to achieve their educational goals while preparing for professional careers.

Our talented faculty and staff ensure that our programs have rigor, relevance, and sustainability of the highest caliber, and we pride ourselves on the quality of relationships we create and foster with students and colleagues alike. The collaborative effort of all of our partners increases the impact of our college across the region and beyond.

The College of Education and Human Services is an outstanding place for students, faculty, staff, alumni, and community partners to learn, teach, and work together. We are delighted that you have discovered us – and we invite you to explore the educational and experiential riches associated with our programs and exceptional faculty and staff.

Advisors in the COEHS Advising Center provide assistance and academic advising to students majoring in one of the college’s undergraduate programs. Students in the College of Education and Human Services are assigned an advisor based on their major and last name. To schedule an appointment with an advisor, students should click on the advising appointment link (http://coehs.nku.edu/advising/appointment.html).

**Departments**

- Counseling, Social Work, and Leadership
- Kinesiology and Health
- Teacher Education

**Accreditations**

- The athletic training education program is accredited by the Commission on Accreditation of Athletic Training Education.
- The undergraduate and graduate social work programs are accredited by the Council on Social Work Education.
- The education/school counseling/educational leadership programs are accredited by the Council for the Accreditation of Educator Preparation.
- The school counseling and clinical and mental health counseling programs are accredited by the Council for Accreditation of Counseling and Related Educational Programs.

**Center**

- **Training and Development Center**
  - Telephone: 859-360-7728
  - Email Address: nkrmhc@nku.edu
  - Web Address: http://coehs.nku.edu/departments/counseling/training.html
  - Director: David Wilkerson

The Training and Development Center is a unique community-based service and training program that provides low-cost mental health services to underserved residents of northern Kentucky. The program is operated by the Department of Counseling, Social Work, and Leadership and serves as a high-quality training site for NKU students. In collaboration with NKU faculty and community mental health, criminal justice, and addiction services agencies, the TDC provides practicum and internship training and professional development experiences for students while assisting clients who would otherwise fall through cracks in the existing services systems.
Human services professionals also provide case management, prevention services, resources and education to clients and their families. These valuable experiences provide students with an opportunity to synthesize and apply the skills and knowledge gained from academic courses into real-world experiences.

The Bachelor of Arts in Human Services and Addictions at NKU is uniquely designed to prepare graduates to help individuals and families in need of assistance through a multidisciplinary knowledge base, focusing on prevention as well as remediation of problems, and maintaining a commitment to improving the overall quality of life for those populations served. Students are exposed to classroom instruction and field experiences that prepare them to work with a diverse population of clients and a broad range of social, emotional, and behavioral issues and problems.

The Bachelor of Arts in Human Services and Addictions consists of class room experiences, online classes, field experiences and hybrid classes that accommodate the traditional student and the adult student returning to school to complete their degree for both professional and career advancement.

Students graduating with a Bachelor of Arts in Human Services and Addictions are prepared for positions in work settings such as mental health agencies, rehabilitation facilities, residential treatment programs, group homes, halfway houses, therapeutic recreation, daycare centers, after-school programs, substance abuse programs, rehabilitation settings, and a variety of programs serving the developmentally challenged and the elderly.

In addition to required courses, students have the option to take elective courses in such topics as substance abuse, family health, and end of life grief. Human Services and Addictions program graduates are also prepared for entrance into a master’s degree program in counseling and other related fields.

Human services students and practitioners are guided by the National Organization for Human Services Code of Ethics. They are committed to improving the well-being of individuals, families, groups, communities, and organizations and furthering the goals of social justice.

**Special opportunities for our students:** Students are encouraged to join the Human Services Club to begin establishing a social and professional network within the human services field. The Human Services Club is student driven with a faculty advisor. The club provides opportunities to build relationships with community agencies, learn more about current social service issues, develop personal relationships with fellow classmates, increase leadership skills, and enhance the overall college experience. For further information about this student club, visit the COEHS student organizations webpage (http://coeshs.nku.edu/advising/organizations.html).

- HSR students have scholarship opportunities for the major.
- HSR majors are encouraged to become a College of Education and Human Services student ambassador. COEHS student ambassadors demonstrate and further develop leadership skills while representing their college as well as the counseling and human services program at various university functions.
- Upon graduation, students will be eligible to apply to take the exam for the Human Services — Board Certified Practitioner national credential. The HS-BCP certifies that you have met the 11 core human services content areas, and that your education and experience are nationally recognized. It also demonstrates commitment to the practice of human services and helps professionalize the field of human services.
• Students make take electives in addition to required courses to meet the academic requirements for certification and/or licensure as a chemical dependency counselor in Kentucky and Ohio. Students may also elect to choose practicum sites that will provide necessary field work experience and hours that will aid in the certification/licensure process and requirements. It is important to review each state’s licensure and/or certification requirements for becoming a chemical dependency counselor.

Special admission requirements: To be admitted students must: (1) be admitted to NKU; (2) successfully complete HSR 100; and (3) have a faculty recommendation and consent of instructor before enrolling in any practicum or field experience course. Field admission is selective.

Special graduation requirements: Students must successfully complete all required human services and addictions courses and all program-required supportive courses with a grade of C- or better and have a minimum GPA of 2.5 to graduate with a Bachelor of Science in human services and addictions.

You should also know: The human services and addictions program is part of the College of Education and Human Services, characterized by a commitment to community-based applied learning. There are three field experience courses — “HSR 204: Field Experience and Seminar I”, “HSR 304: Field Experience and Seminar II”, and “HSR 404: Field Experience & Seminar III.” Each course includes approximately 9 hours each week in a human services/behavioral healthcare agency for a minimum of 144 total placement hours per semester (over 16 weeks). In addition, each field placement course includes two-hour weekly, 32 hours per semester, seminar classes related to the field experience.

Degree Requirements: B.S. with a major in Human Services and Addictions

<table>
<thead>
<tr>
<th>Courses in Human Services and Addiction</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>HSR 100: Orientation to Mental Health/Human Services</td>
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</tr>
<tr>
<td>HSR 101: Surveys of the Helping Professions</td>
<td>3</td>
</tr>
<tr>
<td>HSR 105: Counseling for Human Services Professions</td>
<td>3</td>
</tr>
<tr>
<td>HSR 205: Case Management Skills for HRS Workers</td>
<td>3</td>
</tr>
<tr>
<td>HSR 300: Ethics and Issues for Mental Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>HSR 303: Multicultural Issues in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HSR 305: Assessment and Appraisal in Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>HSR 340: Alcoholism: Issues and Intervention</td>
<td>3</td>
</tr>
<tr>
<td>HSR 400: Integration of Special Populations in Human Service</td>
<td>3</td>
</tr>
<tr>
<td>HSR 412: Leadership Skills for Small Groups</td>
<td>3</td>
</tr>
<tr>
<td>HSR 416: Intervention Theories and Skills for Case Managers</td>
<td>3</td>
</tr>
<tr>
<td>HSR 430: Human Services Administration</td>
<td>3</td>
</tr>
<tr>
<td>HSR 530: Substance Abuse and Process Addictions</td>
<td>3</td>
</tr>
<tr>
<td>Required Field Practice:</td>
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</tr>
<tr>
<td>HSR 204: Field Experience and Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>HSR 304: Field Experience and Seminar II</td>
<td>3</td>
</tr>
<tr>
<td>HSR 404: Field Experience and Seminar III</td>
<td>3</td>
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<tr>
<td>Courses from other disciplines:</td>
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<tr>
<td>EDU 300: Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>STA 113: Introduction to Probability and Statistics -- OR -- Introduction to Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>STA 205</td>
<td>3</td>
</tr>
<tr>
<td>PSY 100: Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 100: Introduction to Sociology</td>
<td>3</td>
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<tr>
<td>BIO 125: Biological Perspectives of Wellness</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 63

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Human Services and Addictions Minor

The minor in human services and addictions is appropriate for students majoring in the behavioral, social, or health services or students interested in providing and arranging services for people to improve their quality of life. The minor requires successful completion of “HSR 100: Orientation to Human Services Professionals” and 18 additional credit hours of HSR courses including 6 credit hours in courses numbered 300 and above. Field experience classes may not be taken for the minor. All credit hours toward the minor must be earned with a C or better.

Those who desire a minor in Human Services and Addictions with a focus on addictions may choose their course to meet the academic requirements for the licensure in the state of Ohio and certification in the State of Kentucky. Students who choose this direction for their minor may consider taking HSR 100, HSR 300, HSR 340, HSR 412, HSR 416, HSR 530, and HSR 550. It is recommended that a student who desires certification and/or licensure review the state educational recommendations for the appropriate category of specialization, such as counselor, prevention, dual diagnosis, etc. Each specialization has its own requirements. The Human Services and Addictions program is designed to meet those requirements and your advisor will be able to assist you in choosing the correct courses for your desired specialization.

Social Work Major

**Thinking about the discipline:** Individuals who desire to serve people should consider a career in social work. A degree in social work offers the potential to work as a licensed professional in a variety of helping professions. Social workers practice in schools, mental health and substance abuse facilities, hospitals, private practice, and child welfare agencies. Social workers can be community organizers, administrators, planners, and policy makers who develop and implement programs to address issues such as child abuse, homelessness, mental health and substance abuse, poverty, and violence. Social workers research and analyze policies, programs, and regulations. They identify social problems and advocate for solutions at the local, state, and federal level. Social work has never been in greater demand than it is today. Employment of social workers is expected to increase at a greater rate than many other occupations.

The Bachelor of Social Work program provides education from a generalist perspective. Generalist practitioners are trained to work in a variety of settings. They view clients and client systems from a strengths perspective in order to recognize, support, and build upon the innate capabilities of all human beings. The program is accredited by the Council on Social Work Education. Graduates are awarded the degree of Bachelor of Social Work, providing them with the eligibility to test for state licensure. It also enables students to pursue advanced standing status in a Masters of Social Work program, which reduces M.S.W. program requirements by half.

Social work students and practitioners are guided by the National Association of Social Workers’ code of ethics. They are committed to improving the well-being of individuals, families, groups, communities, and organizations and furthering the goals of social justice.

**Special opportunities for our students:** Social work majors have the following special opportunities:

- Public Child Welfare Certification Program. PCWCP is a selective-admission, pre-employment opportunity for social work majors that pays in-state tuition for the last three or four semesters and per-semester stipend benefits. PCWCP is a statewide collaboration among the Kentucky Cabinet for Health and Family Services and 11 Kentucky university social work programs. The purpose of the program is to provide B.S.W. students the opportunity to receive advanced training in the area of child welfare protection and permanency. Students accepted into PCWCP are required to become employed by KY DCBS child protection and permanency upon
graduation and must complete a minimum of two years of employment.

- Scholarship opportunities for social work majors. Information is available from the Office of Student Financial Assistance.
- Membership in the Social Work Club. Students are encouraged to join the Social Work Club to begin establishing a positive network team within the field and build relationships with community agencies, learn more about current social welfare issues, develop strong personal relationships with fellow classmates, and enhance the overall college experience while increasing leadership skills. More information about the Social Work Club is available online (http://coehs.nku.edu/programs/nkusocialwork.html).
- Membership in Phi Alpha Honors Society demonstrates leadership among peers. The Phi Alpha Honors Society provides a closer bond among students of social work and humanitarian goals and ideals. Membership is offered to students who have achieved sophomore status and maintain an overall GPA of 3.00 and a 3.25 GPA in social work courses. Information about the Phi Alpha Honors Society is available online (http://coehs.nku.edu/programs/social-work/action/phi-alpha-honors-society.html).

Social work majors are encouraged to join the social work listserv. Members of the listserv receive valuable information about upcoming events sponsored by the Social Work Club and Phi Alpha Honors Society as well as local agency events, projects, and job opportunities within the field. Subscribe to the listserv on the web (http://listserv.nku.edu/mailman/listinfo/socialworkmajors).

Social work majors are encouraged to become COEHS student ambassadors. COEHS student ambassadors demonstrate and further develop leadership skills while representing their college as well as the social work program at various university functions. More information about student ambassador opportunities is available online (http://coehs.nku.edu/advising/organizations.html).

Special admission requirements: Students complete a selective admission process for acceptance into the social work program. Applications are accepted in all semesters. The requirements to submit an application for admission follow:

1. Declare social work as a major.
2. Have a minimum overall GPA of 2.75.
3. Complete the following courses with a grade of C- or higher (students may submit an application in the semester that they are enrolled in the last of these required courses):
   b. “SWK 106: Introduction to Social Justice”
   c. “SWK 460: Ethics and Advocacy (may be taken before or after acceptance in the social work program.)
   d. STA 205, STA 113 or STA 212
   e. One of the following biology courses: BIO 100G, BIO 120, BIO 123, BIO 125, BIO 126, BIO 208, or BIO 209.
4. Complete all of their Foundation of Knowledge general education courses with a grade of C- or higher.
5. Demonstrate an interest in, and aptitude for, a social work career.

Upon acceptance to the social work program, students are required to attend a mandatory admission meeting. Students are notified of the date and time of the meeting in their acceptance letter.

Special graduation requirements: Students may be removed from the social work program based on the following:

- Behavior inappropriate or detrimental in a professional relationship, including criminal convictions.
- Violation of NKU’s Student Code of Rights and Responsibilities.
- Violation of the National Association of Social Workers Code of Ethics.
- Violation of the social work program student handbook.

You should also know: Students are required to read both the social work student handbook and the field instruction manual. The social work student handbook provides information related to admission and retention in the social work program.

The field instruction manual informs students how to obtain agency field placements and what is required to complete the 400 hours of field experience. Upon completion of the core courses, students enroll in two field courses: “SWK 408: Field Experience I” and “SWK 408: Field Instruction II.” These courses are offered consecutively in eight-week sessions for a block placement during the fall or spring semester. The courses include approximately 25 hours each week in a social service agency placement for a minimum of 400 total placement hours (over 16 weeks) in addition to weekly seminar classes related to the field experience.

Bachelor of Social Work
Degree Requirements: B.S.W.

<table>
<thead>
<tr>
<th>Courses</th>
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</tr>
<tr>
<td>SWK 106</td>
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<tr>
<td>SWK 460</td>
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<td>BIO 120.</td>
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<td>BIO 208.</td>
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<td>SWK 407.</td>
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<td>SWK 499.</td>
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<td>SWK 520.</td>
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<td>SWK 525.</td>
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<td>SWK 565.</td>
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TOTAL CREDITS: 60-61
### Social Work Focus

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<td>SWK 510  Child Abuse</td>
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<td>SWK 515  Introduction to Child Maltreatment</td>
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<td>SWK 516  Child Welfare 2: Interventions</td>
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<td>SWK 520  Services to Women</td>
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<td>SWK 525  Substance Use and Abuse</td>
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</tr>
<tr>
<td>SWK 565  Compassion, Empathy, and Forgiveness</td>
<td></td>
</tr>
<tr>
<td>SWK 594  Topics: Issues in Social Welfare</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 12
Department of Kinesiology and Health

Location: Albright Health Center 104
Telephone: 859-572-6557
Fax: 859-572-6090
Email Address: kinesiology@nku.edu
Web Address: http://coehs.nku.edu/departments/kinesiology.html
Department Chair: Alar Lipping
Other Key Personnel:
Athletic Training Program Director: Rachele Vogelpohl
Department Coordinator: Lisa Schultz

Full-Time Faculty: Matthew Asare, Gary Eippert, Hayley Ericksen, Mary Kirk, Roger Kollock, Alar Lipping, Will Peveler, Carol Ryan, Gabe Sanders, Cory Scheadler, Rachele Vogelpohl

Undergraduate Programs:

Majors:
Bachelor of Science
- Athletic Training (Accredited by the Commission on Accreditation of Athletic Training Education)
- Exercise Science
Bachelor of Arts
- Physical Education – P-12 Teacher Certification (Accredited by the National Council for Accreditation of Teacher Education)
- Physical Education (non-certification track)

Minors:
- Health Education – Teacher Certification (Accredited by the National Council for Accreditation of Teacher Education)
- Health Education (non-certification)
- Physical Education (Accredited by the National Council for Accreditation of Teacher Education)
- Sports Medicine

Thinking about the discipline: Kinesiology, the study of human movement, has seen a surge in popularity over the last 20 years that experts attribute to its social relevance, its relation to the obesity epidemic, and the growing societal importance of sports and athletics. The kinesiology programs have evolved over the years to offer courses that extend beyond physical education and health to exercise science, exercise prescription, athletic training, motor development and learning, and biomechanics. Many students pursue traditional careers such as coaching or fitness instruction, but more than half pursue other quickly-growing allied health or medical professions such as athletic trainer, exercise science professional, cardiac rehabilitation specialist, physical therapist, occupational therapist or physician assistant. A new need for older adult and elementary/middle-school physical education teachers, coaches, and fitness instructors is also on the horizon, as the move to improve health across the lifespan continues.

Special opportunities for our students: Students are encouraged to join the department’s Kinesiology Club or Athletic Training Club. Each club promotes an appreciation of, a commitment to, involvement in, and professional responsibility to the stated field of kinesiology. Students participate in such activities as: attending workshops, conferences, conventions, seminars, and institutions; community services; supporting events in the areas of athletic training, exercise science, and physical education/health; and serving as ambassadors for NKU to state, district, and national professional organizations.

You should also know: To remain in the athletic training education program or the exercise science program, students must maintain an overall GPA of at least 2.50. To be admitted to an education program students must maintain an overall GPA of at least 2.75.

In addition, students majoring in one of the education disciplines (for example, physical education) must apply for admission to the teacher education program. The admission process is described in detail in the teacher education section of the catalog. Students majoring in athletic training must also apply for admission to the athletic training program.

Kinesiology and Health Majors

Exercise Science

Bachelor of Science with a major in Exercise Science
Students who major in exercise science focus on the study of human movement within a biomechanical and physiological context; including aspects of anatomy, physiology, chemistry, physics, biology, nutrition and applied training principles. An exercise science degree prepares students for jobs in the fields of strength and conditioning, clinical exercise physiology (cardiac rehabilitation, pulmonary rehabilitation, etc.), sport performance, human performance (military, police, fire fighters, etc.) and applied research. Pre-professional programs that fit well with an exercise science degree are: physical therapy, occupational therapy, and prosthetics.
A grade of C- or higher is required in all major coursework for exercise science undergraduate majors.
If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Exercise Science

<table>
<thead>
<tr>
<th>Courses in Kinesiology and Health</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 125 Introduction to Physical Education, Fitness, and Sport</td>
<td>3</td>
</tr>
<tr>
<td>KIN 200 Concepts of Lifetime Fitness</td>
<td>2</td>
</tr>
<tr>
<td>KIN 260 Introduction to Strength and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>KIN 313 Computer Applications for Health and Kinesiology</td>
<td>2</td>
</tr>
<tr>
<td>KIN 295 Anatomical Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 320 Motor Learning and Performance</td>
<td>3</td>
</tr>
<tr>
<td>KIN 330 Motor Development</td>
<td>3</td>
</tr>
<tr>
<td>KIN 340 Exercise Physiology and Exercise Physiology Lab</td>
<td>4</td>
</tr>
<tr>
<td>KIN 349 Exercise Prescription</td>
<td>4</td>
</tr>
<tr>
<td>KIN 360 Statistics and Measurement in Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 370 Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KIN 380 Clinical Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 450 Organization and Administration of Kinesiology and Athletics</td>
<td>3</td>
</tr>
<tr>
<td>KIN 481 Nutrition for Sport and Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KIN 483 Advanced Strength and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>KIN 498 Research, Trends and Issues in Exercise Science</td>
<td>2</td>
</tr>
<tr>
<td>KIN 496 Internship in Exercise Science</td>
<td>9</td>
</tr>
<tr>
<td>KIN 497 Exercise Science Senior Synthesis (3 credit hours)</td>
<td></td>
</tr>
</tbody>
</table>
Students must choose pre-major courses that fulfill the minimum requirements for entry into the ATEP program. These requirements include a minimum cumulative GPA of 2.50 and successful completion of the pre-professional course and attain a cumulative GPA of 2.50 to be eligible for admission. The pre-professional courses are:

- ATP 101: Concepts of Athletic Training
- ATP 200: Medical History and Documentation (1 credit hour)
- ATP 201: Kinesiology, Range of Motion, and Manual Muscle Testing (1 credit hour)
- ATP 280: Pre-Athletic Training (1 credit hour)
- PSY 100: Introduction to Psychology (3 credit hours)
- BIO 126: Human Nutrition (3 credit hours)
- HEA 135: Safety and First Aid (3 credit hours)
- KIN 280: Basic Recognition and Care of Athletic Injuries (3 credit hours)
- BIO 208/208L: Human Anatomy and Physiology I with Laboratory (4 credit hours)

As part of "ATP 280 Pre-Athletic Training," students will complete 30 clock hours of directed observation at sites selected by ATEP faculty. Clinical supervisors assess students on a general performance evaluation, and the results are used as part of the admission process. For more information or to obtain the evaluation forms, contact the ATEP director, Rachele Vogelpohl at vogelpohra@nku.edu.

Step 2: Formal application

The ATEP application is due on October 31 for fall admission and March 31 for spring admission. The student is required to provide transcripts or proof of satisfactory completion of the pre-professional stage.

The ATEP has limited and selective enrollment. The program has a set maximum for total student enrollment. Annual available positions will be determined according to the set maximum for program positions and the positions that became available through graduation and attrition. Students who fulfill the minimum requirements for formal application are chosen by objective selection criteria based on four parts: cumulative GPA, pre-professional coursework grades, evaluations by supervising ATCs during directed observation, and quality of application. Each portion of the criteria has been weighted according to its importance as determined by the NKU faculty and staff. The weightings are as follows:

- 25 percent cumulative GPA
- 25 percent pre-professional coursework grades
- 35 percent observation evaluations
- 15 percent application quality

Each section is given a numerical score. The section scores are totaled to produce an overall score to objectively rank the students. Available positions will be filled from the highest-ranked applicant down until all positions are filled. Rejected students will be offered the opportunity to reapply during the next application period. Accepted students will have the option to begin clinical rotations the spring semester following admission to the ATEP.

The NKU technical standards represent the minimum requirements necessary for a student to successfully participate in and complete the NKU ATEP program. The guidelines are designed to reflect the necessary skills identified for the entry-level athletic trainer as detailed in the National Association of Training’s Board of Certification Role Delineation Study. A student must meet the requirements for admission, retention, and graduation. Transfer students should contact the ATEP director, Rachele Vogelpohl at vogelpohra@nku.edu, for details regarding course transfer and program admission eligibility.

**Progression:**

### Credits in Kinesiology and Health

| Electives: Select 300/400/500-level KIN, PHE, HEA, or ATP courses (with KH department approval) | 6 |
| Courses in Other Disciplines | | |
| BIO 126 | Human Nutrition | 3 |
| BIO 208/208L | Human Anatomy and Physiology I with Laboratory | 4 |
| BIO 209/209L | Human Anatomy and Physiology II with Laboratory | 4 |
| CHE 115/115L | Physiological Chemistry with Laboratory | 4 |
| PHY 110 | Introduction to Physics with Laboratory | 4 |
| **Credits in Kinesiology and Health** | **65** |
| **Courses in Other Disciplines** | | |
| **Credits in Other Disciplines** | **19** |
| **TOTAL CREDITS** | **84** |

**Athletic Training**

**Bachelor of Science with a major in Athletic Training**

**Thinking about the discipline:** Athletic training encompasses the prevention, diagnosis, and intervention of emergency, acute, and chronic medical conditions involving impairment, functional limitations, and disabilities. The mission of the NKU Athletic Training Education Program is to prepare the next generation of certified athletic trainers through student-centered education, diverse clinical experiences, and scholarly activities in order to produce well-rounded, competent clinicians who will make an impactful contribution to health care in our region, and beyond. Since 2006, NKU’s athletic training education program has been accredited by the Commission on Accreditation of Athletic Training Education. CAATE accreditation recognizes that NKU’s ATEP meets the required standards for the preparation of entry-level certified athletic trainers.

**Special Admission Requirements:** To meet minimum admission standards, a student must:

- Choose pre-athletic training as a major (XATH).
- Have at least sophomore standing (30 credit hours).
- Have completed pre-professional coursework with a minimum grade of C.
- Have a cumulative GPA of 2.50 or above.
- Have completed clinical observation as part of “ATP 280: Pre-Athletic Training.”
- Meet technical standards for minimum mental and physical function.
- Complete CPR and AED for the professional rescuer.
- Have safety and first-aid certification.
- Return a negative TB test (annually).
- Complete a physical examination (completed with ATEP form).
- Submit immunization records (must have current HBV).
- Successfully complete a background check through NKU University Police Department. (Allow a minimum of six to eight weeks to process.)
- Have primary health insurance coverage.
- Produce college-level transcripts.

Any student wishing to apply for admission into ATEP must complete a two-part process.

**Step 1: Pre-professional**

Students must choose pre-athletic training (XATH) as their major and successfully complete selected coursework and directed observation. The coursework consists of eight classes for a total of 20 hours. Students must receive a minimum grade of C for each pre-professional course and attain a cumulative GPA of 2.50 to be eligible for admission. The pre-professional courses are:

- ATP 101: Concepts of Athletic Training
- ATP 200: Medical History and Documentation (1 credit hour)
- ATP 201: Kinesiology, Range of Motion, and Manual Muscle Testing (1 credit hour)
- ATP 280: Pre-Athletic Training (1 credit hour)
- PSY 100: Introduction to Psychology (3 credit hours)
- BIO 126: Human Nutrition (3 credit hours)
- HEA 135: Safety and First Aid (3 credit hours)
- KIN 280: Basic Recognition and Care of Athletic Injuries (3 credit hours)
- BIO 208/208L: Human Anatomy and Physiology I with Laboratory (4 credit hours)

As part of "ATP 280 Pre-Athletic Training," students will complete 30 clock hours of directed observation at sites selected by ATEP faculty. Clinical supervisors assess students on a general performance evaluation, and the results are used as part of the admission process. For more information or to obtain the evaluation forms, contact the ATEP director, Rachele Vogelpohl at vogelpohra@nku.edu.
1. **Cumulative Grade Point Average**
   A 2.5 GPA is the minimum that must be maintained throughout enrollment in the program. If an athletic training student’s GPA falls below a 2.5 he/she will be placed on probation for one semester. During the probationary period, the student has the opportunity to bring his/her GPA back up to the minimum level with no penalty. If the student does not achieve this, he/she will be suspended from the program and the student will be prevented from progressing in didactic or clinical course work for a period of one semester. Students must maintain university enrollment during the suspension. The student will be allowed to retake any previously completed didactic program coursework. The student will not be permitted to enroll in any clinical coursework during the suspension period. If the student raises their GPA to the minimum standard by the end of the suspension period, he/she will be returned to active enrollment. If the student’s GPA remains below 2.5, he/she will be expelled from the program. Students wishing to return to the ATEP at a later date will be subject to the same admissions standards, student selection criteria, and must compete for available positions as if they were a new applicant.

2. **Academic Progress**
A minimum grade of C- is required for ALL courses required by the ATEP. Students will not be permitted to enroll in a course where a C- was not earned in a prerequisite course. The clinical and didactic portions of the ATEP progress simultaneously throughout the program. A student is allowed to retake major coursework or clinical assignments that are unsatisfactory.

3. **Technical Standards**
Students must maintain minimum physical and mental requirements as outlined in the ATEP Technical Standards throughout their enrollment in the ATEP. Students must complete medical history questionnaire and have an annual physical which must both be reviewed and signed for adherence to the technical standards by a qualified allied health care provider (i.e. MD, DO, PA, or Nurse Practitioner).

4. **National Athletic Trainers Association Code of Ethics**
The NATA code of ethics provides the membership with the principles for athletic training ethical behavior. NKU ATEP requires student adherence to these standards of professional practice. Violation of the code of ethics can result in a student’s suspension or expulsion from the NKU ATEP. Any violation will be assessed on an individual basis by the Athletic Training Curriculum Committee.

5. **General Performance Evaluation**
Students must earn a 2.5 average or higher on the end of rotation clinical education evaluations completed by their assigned preceptor. If student does not attain the minimum average score, they will be placed on probation for following semester and the student will be allowed to continue with the next clinical assignment. However, if the student’s general performance does not improve the minimum required score the student will be removed from the ATEP. Students wishing to return to the ATEP at a later date will be subject to the same admissions standards, student selection criteria, and must compete for available positions as if they were a new applicant.

**You should also know:**
- **Uniforms**: Students are required to purchase uniforms and name tags as designated by the ATEP faculty. This uniform is required for all clinical assignments.
- **Primary Health Insurance**: NKU ATEP students are required to have a primary health insurance policy throughout their enrollment in the NKU ATEP program. Students must provide proof of the policy annually.
- **Program fees**: Program fees include the following:

**Bachelor of Science with a major in Athletic Training (clinical education program)**
The Bachelor of Science in athletic training is a professional degree program with an integrated clinical education component. The coursework provides formal instruction aligned with the National Athletic Trainers’ Association educational competencies and clinical proficiencies. The program has an embedded focus in exercise science. Athletic training students do not need to complete a separate minor or focus for graduation.

The clinical practicum courses (ATP 366, ATP 367, ATP 466, ATP 467) provide students with an application of knowledge and skill in a real-world patient-care setting. Students are placed with an approved preceptor at a clinical site (on and off campus) that reflects the educational content specified in the clinical practicum course. Each practicum has required clinical hours as specified in the course description.

Each of the four practicum experiences has different educational goals, and only certain clinical sites offer the equipment and personnel to meet specific needs. NKU ATEP has a total number of approved preceptors and clinical sites that determines the number of students who can be placed in any given semester. Students with complete documentation will be placed first.

Students must inform the clinical coordinator no later than March 1 for the fall placement and no later than October 1 for a winter/spring placement.

All documentation listed under the admissions requirements is required for clinical placement. Several documents have expiration dates (i.e. CPR certification, first-aid certification, primary insurance, TB test). These documents or certifications are the responsibility of the student and must be provided prior to clinical placement.

A complete description of admission and clinical placement procedures is provided in the ATEP Policies and Procedures Manual which is available online (http://coehs.nku.edu/content/dam/coehs/docs/departments/11-10%20ATEP%20Policies%20and%20Procedures.pdf).

**Degree Requirements: B.S. – Athletic Training (clinical education program)**

<table>
<thead>
<tr>
<th>Courses in Athletic Training</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATP 101 – Concepts of Athletic Training</td>
<td>1</td>
</tr>
<tr>
<td>ATP 200 – Medical History and Documentation</td>
<td>1</td>
</tr>
<tr>
<td>ATP 201 – Goniometry, Range of Motion, and Manual Muscle Testing</td>
<td>1</td>
</tr>
<tr>
<td>ATP 280 – Pre-Athletic Training</td>
<td>1</td>
</tr>
<tr>
<td>ATP 320 – Emergency Care in Athletic Training</td>
<td>1</td>
</tr>
</tbody>
</table>

Laboratory fee: $40 assessed for ATP 280.

**Additional fees:**
- A Criminal History Background Check must be purchased for $38 prior to enrolling in ATP 280.
- Once admitted into the ATEP program, students are required to purchase Professional Liability Insurance annually.
- Students are required to purchase the National Athletic Trainers’ Association professional membership annually.
- **Physical examination**: ATEP students are required to complete an annual physical examination to ensure their health and physical fitness will allow them to complete the duties required of an athletic trainer.
- **TB test**: ATEP students are required to complete an annual TB skin test.
- **Hepatitis B vaccination**: Hepatitis B vaccination is required for ATEP admission. The student is responsible for the cost.
- **BOC examination**: Students are encouraged to complete the BOC examination, but it is not a requirement for graduation.
and teaching under the supervision of a certified physical education teacher. During the final semester of the senior year, candidates complete a full semester of student teaching at both the elementary and secondary levels.

Those who enjoy sports and physical activity and would like to impact the lives of children and adolescents may find teaching physical education to be the ideal major. There continues to be a need for dedicated and effective physical education teachers in the schools, especially at a time when the percentage of children and adolescents who are obese in the United States is at an all-time high level. Within the next several years, the "baby boomers" who are currently teaching will be retiring, and the need for new teachers will increase dramatically. Students who graduate with a degree in physical education are also prepared to work with youth in community recreation, family fitness and sports centers, and to coach school and youth sports.

Students interested in majoring in physical education should first declare pre-physical education as a major and sign up to meet with an advisor in the College of Education and Human Services advising center and talk with a faculty member in the physical education program located in HC 104. To apply for admission to the teacher education program, students must:

- Earn 60 hours of course credit with an overall GPA of 2.75 or higher.
- Earn a minimum score of 150 on the Praxis I mathematics exam; a minimum score of 162 on the writing exam; and a minimum score of 156 on the Praxis I reading exam.
- Complete "CMST 101: Public Speaking" with a grade of B or better.
- Complete "ENG 291: Advanced College Writing" with a grade of B or better.
- Pass "EDU 104: Orientation: Education Profession/Program."

To continue into the next professional semester, students must:

- Successfully complete each of the professional semester course requirements with a C or better.
- Complete a portfolio with a MET rating, on Kentucky Initial Teaching Standards.

To be eligible to student teach, students must:

- Successfully complete professional seminars I, II, and III.
- Maintain a 2.75 or higher overall GPA.
- Maintain a GPA of 2.75 or higher in the major core content courses and the professional education courses.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

It is recommended that physical education P-12 certification majors also minor in health education and apply for health education P-12 certification.

### Degree Requirements: B.A. – Physical Education leading to P-12 teaching certification

<table>
<thead>
<tr>
<th>Courses in Kinesiology and Health</th>
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</tr>
</thead>
<tbody>
<tr>
<td>KIN 125</td>
<td>Introduction to Physical Education, Fitness, and Sport</td>
</tr>
<tr>
<td>HEA 135</td>
<td>Safety and First Aid</td>
</tr>
<tr>
<td>KIN 200</td>
<td>Concepts of Lifetime Fitness</td>
</tr>
<tr>
<td>KIN 313</td>
<td>Computer Applications for Health and Kinesiology</td>
</tr>
<tr>
<td>KIN 320</td>
<td>Motor Learning and Performance</td>
</tr>
<tr>
<td>KIN 330</td>
<td>Motor Development</td>
</tr>
<tr>
<td>KIN 370</td>
<td>Biomechanics</td>
</tr>
<tr>
<td>KIN 340</td>
<td>Exercise Physiology</td>
</tr>
<tr>
<td>KIN 340L</td>
<td>Exercise Physiology Lab</td>
</tr>
<tr>
<td>KIN 360</td>
<td>Statistics and Measurement in Kinesiology</td>
</tr>
</tbody>
</table>

### Courses in Other Disciplines

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATP 333</td>
<td>Lower Extremity Evaluation</td>
<td>2</td>
</tr>
<tr>
<td>ATP 333L</td>
<td>Lower Extremity Evaluation Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ATP 334</td>
<td>Upper Extremity Evaluation</td>
<td>2</td>
</tr>
<tr>
<td>ATP 334L</td>
<td>Upper Extremity Evaluation Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ATP 335</td>
<td>Head and Spine Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>ATP 336</td>
<td>Athletic Training Clinical Practicum I</td>
<td>1</td>
</tr>
<tr>
<td>ATP 337</td>
<td>Athletic Training Clinical Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>ATP 370</td>
<td>General Medical for Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>ATP 375</td>
<td>Therapeutic Modalities</td>
<td>3</td>
</tr>
<tr>
<td>ATP 375L</td>
<td>Therapeutic Modalities Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ATP 430</td>
<td>Administration of Athletic Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>ATP 440</td>
<td>Rehabilitation of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>ATP 440L</td>
<td>Rehabilitation of Athletic Injuries Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ATP 450</td>
<td>Senior Teaching Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ATP 455</td>
<td>Current Issues in Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>ATP 460</td>
<td>Athletic Training Clinical Practicum III A</td>
<td>12</td>
</tr>
<tr>
<td>ATP 467</td>
<td>Athletic Training Clinical Practicum III B</td>
<td>3</td>
</tr>
</tbody>
</table>

### Elective

| Select at least one 300-level KIN course from the following: |
| KIN 313 | Computer Applications for Health and Kinesiology |
| KIN 320 | Motor Learning and Performance |
| KIN 330 | Motor Development |
| KIN 349 | Exercise Prescription |
| KIN 380 | Clinical Exercise Physiology |

### Credits in Other Disciplines 40-42

### Total Credits 91-93

### Physical Education

**Bachelor of Arts with a major in Physical Education (leading to P-12 teaching certification)**

The physical education major prepares students to be effective physical education teachers at the elementary, middle, and secondary levels through a strong content and pedagogy curriculum. Students are well prepared to pass state certification exams and to apply for and achieve multi-state teaching certification. During each semester of the junior year and the first semester of the senior year, teacher candidates spend a minimum of 75 hours observing and teaching under the supervision of a certified physical education teacher.
Bachelor of Arts with a major in Physical Education (non-certification track)

The physical education non-certification program prepares students to work with children and youth in YMCA community recreation centers, family fitness and sports centers, after school programs and summer camps. The program consists of courses in sports skills (individual, dual and team sports), biomechanics, exercise science, health education and other kinesiology related courses. The final course in the program is a 250-hour community-based internship that is affiliated with community centers, health clubs and YMCA’s where students receive on the job training as part of their fieldwork experiences.

Degree Requirements: B.A. – Physical Education – non-certification

Kinesiology and Health Minors

Minor in Health Education

The kinesiology and health department offers two tracks in the health education minor:

- Health education – P-12 teaching certification
- Health education – non-certification

Those students who wish to apply for P-12 teaching certification in health education should complete the requirements for the P-12 certification track minor. They must be admitted to the teacher education program before completing “HEA 525: Methods and Materials in Health Education” and “HEA 489: Field Experiences in Health Education.” Only those undergraduate students who are seeking a major in another education certification area may complete this minor track. Those who have already earned a teaching certificate in another content area may pursue the health education certification as postbaccalaureate students.

It is highly recommended that students who are majoring in physical education also complete the health education P-12 certification minor program. Most school districts hire physical education teachers who are also certified to teach health education. Students in this program must maintain an overall GPA of 2.75 or better and receive a C or better in all program courses.

Those students who are interested in the area of health are encouraged to complete the health education minor program.
HEA 230  Personal Health and Wellness  3
KIN 200  Concepts of Lifetime Fitness  2
HEA 270  Community Health  3
HEA 320  Drug and Alcohol Education  3
HEA 350  Sexuality Education  3
BIO 126  Human Nutrition  3
BIO 208/208L*  Human Anatomy and Physiology I with Laboratory  4
BIO 209/209L  Human Anatomy and Physiology II with Laboratory  4
**“BIO 121: Diseases and the Systems They Affect” may be substituted for “BIO 208: Human Anatomy and Physiology I” and “BIO 209: Human Anatomy and Physiology II” if not a physical education major; “BIO 121 Diseases and the Systems They Affect” is not required for a physical education major.

TOTAL TRACK CREDITS  31

Requirements for Minor: Health Education – teacher certification track  Credits
All courses required for non-certification minor  31
KIN 313  Computer Applications for Health and Kinesiology  2
HEA 250  Health Education for Elementary Teachers  2
HEA 489  Field Experiences in Health Education  1
HEA 525  Methods and Materials in Health Education  3
EDU 104  Orientation: Education Profession/Program  1
EDU 300  Human Growth and Development  3
EDU 306  Introduction to Education  2
EDU 311  Admission Field Experience Secondary  2
EDS 322  Planning and Implementing Instruction for Students with Exceptionalities  3
EDU 496  Clinical Experience Secondary (required for all education majors or postbaccalaureate students to teach a minimum of one health course during their 12-credit-hour student-teaching semester)  12

TOTAL TRACK CREDITS  62

Minor in Physical Education
The minor in physical education is offered as an option for students interested in the field of physical activity. The courses provide an initial level of training appropriate for an academic minor at NKU. The physical education minor does not result in certification to teach physical education in the schools. Students must achieve a GPA of at least a 2.50 in the PHE, KIN, and HEA courses listed below.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Physical Education  Credits
KIN 125  Introduction to Physical Education, Fitness, and Sport  3
HEA 135  Safety and First Aid  3
KIN 200  Concepts of Lifetime Fitness  2
PHE 234  Team Sports  3
PHE 235  Individual and Dual Sports  3
KIN 330  Motor Development  3
KIN 340  Exercise Physiology  Prerequisites: BIO 208/208L  4
KIN 349  Exercise Prescription  4
KIN 360  Statistics and Measurement in Kinesiology  Prerequisite: MAHD 099 or acceptable placement score.  4

TOTAL CREDITS  28

Minor in Sports Medicine
The minor in sports medicine is an excellent opportunity to attain a clinical understanding of evaluation, treatment, and rehabilitation of orthopedic and sport-related injuries or illnesses for students who don’t wish to pursue an athletic training degree. This would be a good choice for students majoring in pre-physical therapy, exercise science, physical education, or pre-medicine.

Students select 21 credit hours from the coursework below. Students must complete “KIN 280: Basic Recognition and Care of Athletic Injuries” before taking other ATP coursework. ATEP admission is not required. Students who obtain this minor are not eligible for board certification as an athletic trainer.

For more information, students should contact the ATEP director, Rachele Vogelpohl, at vogelpohla@nku.edu.

Requirements for Minor: Sports Medicine  Credits
KIN 280  Basic Recognition and Care of Athletic Injuries  3
Select 18 credit hours from the following*:
ATP 333  Lower Extremity Evaluation with Laboratory
ATP 333L
ATP 334/  Upper Extremity Evaluation with Laboratory
ATP 334L
ATP 335  Head and Spine Evaluation
ATP 420  General Medical for Athletic Training
ATP 425/  Therapeutic Modalities with Laboratory
ATP 425L
ATP 440/ATP  Rehabilitation of Athletic Injuries with Laboratory  18
440L
ATP 435  Administration of Athletic Healthcare
KIN 260  Introduction to Strength and Conditioning
KIN 370  Biomechanics
KIN 340  Exercise Physiology
KIN 349  Exercise Prescription

TOTAL PROGRAM CREDITS  21

*Many of the courses listed here have prerequisites. The most common are BIO 208/208L Human Anatomy and Physiology I with Laboratory (4 credit hours), and BIO 209/209L Human Anatomy and Physiology II with Laboratory (4 credit hours). Check with an advisor for more information.
Department of Teacher Education

Location: Mathematics-Education-Psychology Center 251
Telephone: 859-572-5624
Fax: 859-572-6096
Email Address: teachereducation@nku.edu
Web Address: http://coehs.nku.edu/departments/teachered.html
Department Chair: Shawn Faulkner
Other Key Personnel:
  Assistant Chair: Sara Runge
  Department Coordinator: Beth McCubbin
  Administrative Secretary:


Undergraduate Programs:

Majors with Certification:
  Bachelor of Arts
  Early Childhood Education (birth to kindergarten)
  Elementary Education (P-5)
  Middle Grades Education (5-9)
  English/Communications Track
  Mathematics Track
  Science Track
  Social Studies Track
  Secondary Education (must be paired with a content major)
    Art (P-12)
    Biology (B-12)
    Chemistry (B-12)
    Earth/Space Science (B-12)
    English (B-12)
    Health Education (P-12) – must be paired with another certification area
    Mathematics (B-12)
    Music (P-12) - refer to Department of Music for degree requirements
    Physical Education (P-12)
    Physics (B-12)
    Social Studies (B-12) - refer to Department of History and Geography for degree requirements
    World Languages (P-12): French, Spanish, German
  Special Education (P-12) (must be completed concurrently with a major in elementary, middle, or secondary education)

Certification Programs:
  Middle Grades Extension
  Non-Certification Program:
    Early Childhood Education (birth to kindergarten)

Thinking about the discipline: Completing a major in the Department of Teacher Education is the first step in attaining teacher certification in Kentucky. To become a teacher, preparation is required in four areas:

1. A broad, comprehensive background in the liberal arts.
2. Training in pedagogy through a sequence of professional courses.
3. Extensive field and clinical experiences provided by the university in cooperation with local school systems.
4. In-depth preparation in the content area(s) leading to certification.

Initial certification of all new teachers requires successful completion of appropriate PRAXIS examinations prior to certification and completion of an internship program. The PRAXIS examinations are administered by the Educational Testing Service, and internship components are administered by the Kentucky Education Professional Standards Board. Neither the PRAXIS examinations nor the internship are considered part of the NKU teacher education program. Upon successful completion of the required PRAXIS examinations, students must complete a CA-1 form and submit it to the College of Education and Human Services’ certification officer. The certification officer will submit the form to the Education Professional Standards Board.

Students who plan to teach in other states should work closely with the teacher education certification officer in Mathematics-Education-Psychology Center 230 to determine the requirements in those states with reference to reciprocity.

Changes may be made in the teacher education programs to meet state certification requirements. Students must obtain the current program requirements from the advising office. The advising process is particularly crucial for teacher education students. It is suggested that freshmen and other interested students declare a pre-major in a teacher education field, which allows the student to be assigned a teacher education advisor.

Special opportunities for our students: Students pursuing a major in teacher education have several opportunities and resources available to them. Many students enjoy participating in one of several education-related student organizations including the Professional Student Education Organization, Black Educators of Excellence, Student Council for Exceptional Children, Early Childhood Education Club, and Collegiate Middle Level Association. In addition, students interested in exploring a study-abroad opportunity may consider the honors program or international student teaching.

Multiple scholarships and awards are available to teacher education students. Details are available on the College of Education and Human Services website.

Special admission requirements: Students who wish to major in one of the education disciplines must apply for admission to the teacher education program. This is a two-step process.

First step: Admissions field experience
To apply for the admissions field experience (EDU 303, EDU 307, EDU 309, or EDU 311) a student must have:

1. Successfully completed an FBI background check.
2. Successfully completed “EDU 104: Orientation: Education Profession/Program” with a grade of C.
3. Attained a GPA of at least 2.75 on a 4.00 scale, or GPA of 3.0 on last 30 credit hours.
4. Earned a minimum of 45 credit hours of coursework.
5. Completed the required application for admission.
6. Achieved the minimum score required by state regulations on the PRAXIS CASE exams:
   a. Mathematics (5732) – Score: 150
   b. Reading (5712) – Score: 156
   c. Writing (5722) – Score: 162

Second step: Admission to the teacher education program
To be admitted to the teacher education program a student must have:

1. Earned 60 credit hours of coursework.
2. Attained a cumulative GPA of at least 2.75 on a 4.00 scale, or GPA of 3.0 on last 30 credit hours.
3. Achieved at least a B in "ENG 291: Advanced College Writing" or equivalent.
4. Achieved at least a B in "CMST 101: Public Speaking" or equivalent.
5. Achieved at least a C in each of the following: "EDU 300: Human Growth and Development," "EDU 305: Introduction to Education," "EDU 313: Instructional Technology," and "EDS 360: Students with Exceptionalities in School."
6. Achieved a P in the admissions field experience (EDU 303, EDU 307, EDU 309, or EDU 311).
7. Filed three positive teacher education recommendation forms completed by professional educators.
8. Signed a curriculum contract.
9. Received approval from the Teacher Education Committee.
10. Presented an approved portfolio from the admissions field experience.
11. Demonstrated the skills of communication, creativity, critical thinking, and collaboration as required by state regulation. These may be demonstrated in the following manner:
   a. Communication: Completion of CMST 101 or ENG 291 with a grade of B or better.
   b. Creativity: Completion of any course under "culture and creativity: arts and humanities" with a grade of C or better.
   c. Critical Thinking: Completion of any course under "scientific and quantitative inquiry: natural science or mathematics and statistics" or any course from "self and society: individual and society" with a grade of C or better.
   d. Collaboration: Completion of the admissions field experience with a grade of P.

You should also know: At the time of graduation, all students in teacher education programs must meet the following requirements:
1. Overall GPA of 2.75.
2. Pedagogy (EDU and EDS courses) GPA of 2.75.
3. Content course GPA of 2.75.
4. NKU coursework GPA of 2.75.
5. Minimum grade of C (not C-) in all education (EDS / EDU) courses.

Teacher Education Majors

Bachelor of Arts with a major in Early Childhood Education (birth–kindergarten)

The early childhood education (birth to kindergarten) program leads to the Bachelor of Arts. Candidates may choose from two options to complete this degree: (1) interdisciplinary early childhood education certification track and (2) non-certification track. Students who wish to be certified to teach in Kentucky's state-funded, public school, pre-kindergarten classrooms (serving 3- to 5-year-olds with and without disabilities) or in Kentucky's early intervention system, First Steps (serving birth to 3-year-olds with disabilities), should declare a pre-major or major in IECE certification track. Candidates who wish to work in community childcare programs, Head Start, or Early Head Start programs, Kentucky's Quality Rating System, STARS, or home visitation programs should select the non-certification track.

Those seeking the non-certification track should consult with an advisor about special application and admission requirements.

Degree Requirements: B.A. – Early Childhood Education

<table>
<thead>
<tr>
<th>Core Courses in Teacher Education</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 104 Orientation: Education Profession/Program</td>
<td>1</td>
</tr>
<tr>
<td>EDU 104 is a prerequisite course for all other EDU and EDS courses except EDU 300 and EDS 360.</td>
<td></td>
</tr>
</tbody>
</table>

EDU 300 Human Growth and Development | 3 |
EDU 301 Interpersonal Interaction and Guidance | 3 |
EDU 305 Introduction to Education | 2 |
EDU 313 Instructional Technology | 2 |
EDU 320 Working with Families of Young Children | 3 |
EDU 397 IECE Field Experience II | 3 |
EDU 360 Core Principles of Early Childhood Education | 3 |
EDU 354 Language Development and Emergent Literacy | 3 |
EDU 355 Current Trends in Early Childhood Education | 3 |
EDU 351 Preschool Education and Programming | 3 |
EDU 352 Infant and Toddler Education and Programming | 3 |
EDU 365 Early Childhood Assessments for Screening | 3 |
EDU 366 Ongoing Assessment in Early Childhood Education | 3 |
EDU 367 Math and Science Exploration: PreK-3rd | 3 |
EDU 368 Administration and Supervision in Early Childhood Education | 3 |
EDU 369 Kindergarten Education and Programming | 3 |
EDS 363 Applied Behavior Analysis for Students with Disabilities | 3 |
EDS 370 Working with Families of Students with Disabilities | 3 |
EDS 360 Students with Exceptionalities in School | 3 |
EDS 362 Early Childhood Special Education Programs | 3 |

Core Credits in Teacher Education | 59 |

Core Courses in Other Disciplines
<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 100 Introduction to Psychology*</td>
</tr>
<tr>
<td>CMST 101 Public Speaking*</td>
</tr>
<tr>
<td>Select two ENG courses (may be met through general education requirements)</td>
</tr>
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</table>

Core Credits in Other Disciplines | 12 |
TOTAL CORE CREDITS | 71 |

IECE Certification Track

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 395 IECE Field Experience I</td>
</tr>
<tr>
<td>EDS 551 Assistive Technology in the Classroom</td>
</tr>
<tr>
<td>EDU 303 Admission Field Experience IECE</td>
</tr>
<tr>
<td>EDU 491 Clinical Experience in IECE</td>
</tr>
<tr>
<td>Electives</td>
</tr>
</tbody>
</table>

TOTAL TRACK CREDITS | Varies |

Non-Certification Track

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 398 Non-certification Field Experience I</td>
</tr>
<tr>
<td>EDU 321 Non-certification Admissions</td>
</tr>
<tr>
<td>EDU 490 Non-certification Final Field Experience</td>
</tr>
<tr>
<td>SWK 510 Child Abuse</td>
</tr>
<tr>
<td>Electives</td>
</tr>
</tbody>
</table>

TOTAL TRACK CREDITS | Varies |

Bachelor of Arts with a major in Elementary Education (P-5)

The elementary education (P-5) program leads to the Bachelor of Arts. The advising process is particularly crucial for teacher education students.

Students wishing to enroll in the elementary education program must follow the admission guidelines for teacher education programs outlined by the College of Education and Human Services. It is suggested that freshmen or other interested students declare a pre-major in elementary education. This procedure will result in assignment to a teacher education advisor familiar...
with the current curricular and admission requirements and with any impending changes that may occur prior to the student’s admission semester. Upon successful completion of this program, the graduate will qualify for an institutional recommendation for a Kentucky Provisional Certificate for teaching in the elementary grades (P-5).

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

**Degree Requirements: B.A. – Elementary Education**

<table>
<thead>
<tr>
<th>Courses in Teacher Education</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 104 Orientation: Education Profession/Program</td>
<td>1</td>
</tr>
<tr>
<td>EDU 104 is a prerequisite course for all other EDU and EDS courses except EDU 300 and EDS 360.</td>
<td></td>
</tr>
<tr>
<td>EDU 300 Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>EDU 302 Teaching of Reading</td>
<td>3</td>
</tr>
<tr>
<td>EDU 305 Introduction to Education</td>
<td>2</td>
</tr>
<tr>
<td>EDU 306 Teaching Elementary School Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>EDU 307 Admission Field Experience Elementary</td>
<td>2</td>
</tr>
<tr>
<td>EDU 308 Teaching Elementary School Science</td>
<td>3</td>
</tr>
<tr>
<td>EDU 310 Teaching Language Arts in the Early Grades</td>
<td>3</td>
</tr>
<tr>
<td>EDU 312 Teaching Social Studies in the Early Grades</td>
<td>3</td>
</tr>
<tr>
<td>EDU 313 Instructional Technology</td>
<td>2</td>
</tr>
<tr>
<td>EDU 314 Classroom Management</td>
<td>3</td>
</tr>
<tr>
<td>EDU 315 Educational Assessment: Elementary Schools</td>
<td>2</td>
</tr>
<tr>
<td>EDU 390 Elementary Field Experience I</td>
<td>2</td>
</tr>
<tr>
<td>EDU 392 Elementary Field Experience II</td>
<td>2</td>
</tr>
<tr>
<td>EDU 494 Clinical Experience Elementary</td>
<td>12</td>
</tr>
<tr>
<td>EDS 322 Planning and Implementing Instruction for Students with Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EDS 360 Students with Exceptionalities in School</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credits in Teacher Education</th>
<th>52</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Courses in Other Disciplines</strong></td>
<td></td>
</tr>
<tr>
<td>PSY 100 Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>CMST 101 Public Speaking*</td>
<td>3</td>
</tr>
<tr>
<td>STA 113 Introduction to Probability and Statistics*</td>
<td>3</td>
</tr>
<tr>
<td>BIO 120/120L Understanding the Living World with Laboratory*</td>
<td>4</td>
</tr>
<tr>
<td>SCI 110 Integrative Natural Science*</td>
<td>4</td>
</tr>
<tr>
<td>ENG 291 Advanced College Writing*</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 280 Art for Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>ENG 386 Children’s Literature</td>
<td>3</td>
</tr>
<tr>
<td>HEA 250 Health Education for Elementary Teachers</td>
<td>2</td>
</tr>
<tr>
<td>MAT 140 Mathematics for Elementary and Middle Grades Teachers I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 141 Mathematics for Elementary and Middle Grades Teachers II</td>
<td>3</td>
</tr>
<tr>
<td>MAT 142 Mathematics for Elementary and Middle Grades Teachers III</td>
<td>3</td>
</tr>
<tr>
<td>MUS 260 Music Fundamentals and Skills for Classroom Teachers</td>
<td>3</td>
</tr>
<tr>
<td>PHE 250 Physical Education for Elementary Teachers</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

| Prerequisite for Professional Semester II: One HIS course and one GEO course | |

**Bachelor of Arts with a major in Middle Grades Education (5-9)**

Successful completion of the middle grades education (5-9) program leads to the Bachelor of Arts and is the first step toward attaining certification to teach in grades 5-9 in Kentucky. Students wishing to enroll in the middle grades program must follow the admission guidelines for teacher education programs outlined by the College of Education and Human Services. It is suggested that freshmen or other interested students declare a pre-education major in middle grades education. Doing so will enable the student to be assigned a teacher education advisor. The advisor will be familiar with the current curriculum and admission requirements as well as any impending changes that may occur prior to the student’s admission semester. Students pursuing a middle grades education program must complete at least two of the following teaching fields: English and communication, mathematics, science, social studies, or special education. Special Education must be completed as a second major. See Bachelor of Arts with a Major in Special Education (P-12). Upon successful completion of this program, the graduate will qualify for an institutional recommendation for a Kentucky Provisional Certificate for teaching in the middle grades (5-9), with appropriate teaching fields.

**Degree Requirements: B. A. – Middle Grades Education**

<table>
<thead>
<tr>
<th>Core Courses in Teacher Education</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 104 Orientation: Education Profession/Program</td>
<td>1</td>
</tr>
<tr>
<td>EDU 104 is a prerequisite course for all other EDU and EDS courses except EDU 300 and EDS 360.</td>
<td></td>
</tr>
<tr>
<td>EDU 300 Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>EDU 304 Reading and Writing Across the Curriculum: Middle Grades</td>
<td>3</td>
</tr>
<tr>
<td>EDU 305 Introduction to Education</td>
<td>2</td>
</tr>
<tr>
<td>EDU 309 Admission Field Experience Middle Grades</td>
<td>2</td>
</tr>
<tr>
<td>EDU 313 Instructional Technology</td>
<td>2</td>
</tr>
<tr>
<td>EDU 316 Racism and Sexism in Educational Institutions</td>
<td>3</td>
</tr>
<tr>
<td>EDU 318 Classroom Climate Management: Middle School</td>
<td>2</td>
</tr>
<tr>
<td>EDU 343 Educational Assessment: Middle Schools</td>
<td>2</td>
</tr>
<tr>
<td>EDU 344 Fundamentals of Middle Grades Education</td>
<td>2</td>
</tr>
</tbody>
</table>

| Methods Courses – select two courses from the following* | |
| EDU 345 Teaching Language Arts in Middle Grades | 6 |
| EDU 346 Teaching Science in Middle Grades | 6 |
| EDU 347 Teaching Mathematics in Middle Grades | 6 |
| EDU 348 Teaching Social Studies in Middle Grades | 6 |
| EDU 391 Middle Grades Field Experience I | 2 |
| EDU 394 Middle Grades Field Experience II | 2 |
| EDU 495 Clinical Experience Middle Grades | 12 |
| EDS 323 Instructional Planning for Inclusive Middle Level Classrooms | 3 |
| EDS 360 Students with Exceptionalities in School | 3 |

| Core Credits in Teacher Education | 50 |

---

*These courses fulfill general education requirements in Individual and Society, Oral Communication, Mathematics and Statistics, and Natural Science.
Core Courses in Other Disciplines

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 100</td>
<td>Introduction to Psychology**</td>
<td>3</td>
</tr>
<tr>
<td>CMST 101</td>
<td>Public Speaking**</td>
<td>3</td>
</tr>
<tr>
<td>ENG 291</td>
<td>Advanced College Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Credits in Other Disciplines 9

TOTAL CORE CREDITS 50

**Two methods courses are to be completed, one in Professional Semester I and the other in Professional Semester II. Students who plan to complete Special Education as an area will dual major and only be required to take one method course.

**These courses fulfill general education requirements in Individual and Society and Oral Communication.

Content area tracks: Students select two content area tracks from the following: English and communication, social studies, mathematics, science, and special education. A minimum of 12 credit hours of content coursework must be completed before enrolling in the corresponding methods course.

<table>
<thead>
<tr>
<th>Track</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications Track</td>
<td>9</td>
</tr>
<tr>
<td>ENG 291 Advanced College Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 208 Survey of American Literature I -- OR --</td>
<td>3</td>
</tr>
<tr>
<td>ENG 209 Survey of American Literature II</td>
<td></td>
</tr>
</tbody>
</table>

Select two courses from the following:
- ENG 202 Survey of British Literature I
- ENG 203 Survey of British Literature II
- ENG 206 Western World Literature I
- ENG 207 Western World Literature II
- ENG 215 Greek and Roman Mythology
- ENG 217 African American Literature to 1940
- ENG 218 African American Literature 1940-Present
- ENG 306 Multicultural American literature

Any course in non-Western Literature

ENG 530 Readings in the English Language 3

Select one course from the following:
- ENG 231 Introduction to Creative Writing
- ENG 331 Persuasive Writing
- ENG 332 Fiction Writing
- ENG 334 Poetry Writing
- ENG 340 Business Writing
- ENG 347 Technical Writing
- ENG 348 Professional Editing in the Workplace
- ENG 349 Web Writing for the Professions
- JOU 220 News Writing -- OR --
- CMST 310 Argumentation
- ENG 371 Traditional Grammar

TOTAL TRACK CREDITS 24

TOTAL CORE CREDITS 56

TOTAL CREDITS 80

Mathematics Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 110</td>
<td>Introductory Probability</td>
<td>3</td>
</tr>
<tr>
<td>MAT 112</td>
<td>Applied Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MAT 117</td>
<td>Algebra for Middle Grades Teachers</td>
<td>3</td>
</tr>
<tr>
<td>MAT 140</td>
<td>Mathematics for Elementary and Middle Grades Teachers I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 240</td>
<td>Geometry for Middle School Teachers</td>
<td>3</td>
</tr>
<tr>
<td>MAT 303</td>
<td>Mathematics and Technology for Middle Grades Teachers</td>
<td>3</td>
</tr>
<tr>
<td>STA 204</td>
<td>Statistics for Middle Grades Teachers</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from the following:
- MAT 109 Algebra for College Students
- MAT 114 Finite Mathematics
- MAT 119 Precalculus Mathematics
- MAT 185 Introductory Discrete Mathematics

TOTAL TRACK CREDITS 24

TOTAL CORE CREDITS 56

TOTAL CREDITS 80

Science Track

All courses except electives must include a laboratory component.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 120/120L</td>
<td>Understanding the Living World with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHE 105</td>
<td>Discovering Chemistry with Laboratory -- OR --</td>
<td>4</td>
</tr>
<tr>
<td>CHE 112/112L</td>
<td>Chemistry and Society with Laboratory -- OR --</td>
<td>4</td>
</tr>
<tr>
<td>CHE 115/115L</td>
<td>Physiological Chemistry with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHY 110</td>
<td>Introduction to Physics with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>AST 110</td>
<td>Solar System Astronomy with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GLY 110</td>
<td>The Face of the Earth with Laboratory</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one course from the following:*

Life Sciences:
- BIO 150/150L Introduction to Biology I with Laboratory
- BIO 151/151L Introduction to Biology II with Laboratory
- BIO 208/208L Human Anatomy and Physiology I with Laboratory
- BIO 123 Human Ecology
- BIO 121/121L Diseases and the Systems They Affect with Laboratory

Integrated Sciences:
- SCI 110 Integrative Natural Science 3-5

Physical Sciences:
- PHY 211 General Physics with Laboratory I
- PHY 213 General Physics with Laboratory II
- CHE 396 Practicum: Chemistry

Earth and Space Science:
- GLY 120/120L This Dangerous Earth with Laboratory
- GLY 220 History of the Earth

Social Studies Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 102</td>
<td>History of the United States through 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIS 103</td>
<td>History of the United States since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIS 108</td>
<td>World History to 1500</td>
<td>3</td>
</tr>
<tr>
<td>HIS 109</td>
<td>World History since 1500</td>
<td>3</td>
</tr>
<tr>
<td>GEO 101</td>
<td>World Regional Geography</td>
<td>3</td>
</tr>
<tr>
<td>PSC 102</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 205</td>
<td>Economics for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>ANT 100</td>
<td>Introduction to Cultural Anthropology</td>
<td></td>
</tr>
</tbody>
</table>
Bachelor of Arts with a major in Special Education (P-12)

Students who want to become special education teachers must also major in either elementary, middle, or secondary (high school) teaching. Those choosing to major in special education will work with students who have identified learning disabilities, behavior disorders, mild intellectual disabilities, and/or physical and health disabilities. The special education teacher may work alongside a general education teacher providing support, accommodations, and modifications to students with disabilities in the general education classroom; may provide more individualized instruction to students with disabilities in a resource room; or may teach students with disabilities in a self-contained special education classroom. When finished, students may apply for certification to teach individuals with mild disabilities from kindergarten through 12th grade. Students must maintain an overall GPA of 2.75 throughout the program. Additionally, students will need to work closely with their assigned advisor to ensure that requirements for both general education teaching certification (elementary, middle, or secondary), as well as the requirements for special education teaching certification, are met.

Degree Requirements: B.A. – Special Education

Core Courses in Special Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDS 364</td>
<td>3</td>
</tr>
<tr>
<td>EDS 561</td>
<td>3</td>
</tr>
<tr>
<td>EDS 365</td>
<td>3</td>
</tr>
<tr>
<td>EDS 570</td>
<td>3</td>
</tr>
<tr>
<td>EDS 572</td>
<td>3</td>
</tr>
<tr>
<td>Total Core Credits:</td>
<td>15</td>
</tr>
</tbody>
</table>

Professional Semester III – Special Education Block (every fall semester; spring semester based upon need)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDS 362 Applied Behavior Analysis for Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EDS 464 Assessment Learning and Behavior Disorders</td>
<td>3</td>
</tr>
<tr>
<td>EDS 472 Special Education Methods and Materials</td>
<td>3</td>
</tr>
<tr>
<td>EDS 473 Special Education Practicum</td>
<td>2</td>
</tr>
<tr>
<td>Total Credits for Professional Semester III</td>
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</tr>
</tbody>
</table>

Professional Semester IV – Student Teaching

Select one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 492 Clinical Experience Elementary with Secondary Education</td>
<td>2</td>
</tr>
<tr>
<td>EDU 493 Clinical Experience Middle Grades with Special Education</td>
<td>2</td>
</tr>
<tr>
<td>EDU 497 Clinical Experience Secondary with Special Education</td>
<td>2</td>
</tr>
<tr>
<td>Total Credits for Student Teaching</td>
<td>12</td>
</tr>
</tbody>
</table>

TOTAL CORE CREDITS: 38

Middle Grades Education with Special Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 140 Mathematics for Elementary and Middle Grades Teachers I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 141 Mathematics for Elementary and Middle Grades Teachers II</td>
<td>3</td>
</tr>
<tr>
<td>Total Track Credits:</td>
<td>6</td>
</tr>
</tbody>
</table>

Secondary Education with Special Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 140 Mathematics for Elementary and Middle Grades Teachers I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 141 Mathematics for Elementary and Middle Grades Teachers II</td>
<td>3</td>
</tr>
<tr>
<td>EDU 304 Reading and Writing Across the Curriculum: Middle Grades</td>
<td>3</td>
</tr>
<tr>
<td>Total Track Credits:</td>
<td>9</td>
</tr>
</tbody>
</table>

Secondary Education with Special Education (8-12) Certification

Successful completion of the secondary education program leads to a major and bachelor’s degree from the selected content area department and is the first step toward attaining certification to teach in one’s chosen field in a secondary school program (8-12) in Kentucky. Students wishing to enroll in the secondary education program must follow the admission guidelines outlined by the College of Education and Human Services. It is suggested that freshmen or other interested students declare a pre-education major in secondary education. Doing so will enable the student to be assigned to a teacher education advisor. The advisor will be familiar with the current curriculum and admission requirements as well as any impending changes that may occur prior to the student’s admission semester. Upon successful completion of this program, the graduate will qualify for an institutional recommendation for a Kentucky Provisional Certificate for teaching in the secondary grades (8-12) or in all grades (P-12) depending upon the selected teaching field.

Certification Requirements: (8-12) Secondary Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 104 Orientation: Education Profession/Program</td>
<td>1</td>
</tr>
<tr>
<td>EDU 104 is a prerequisite course for all other EDU and EDS courses except EDU 300 and EDS 360.</td>
<td></td>
</tr>
<tr>
<td>EDU 300 Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>EDU 305 Introduction to Education</td>
<td>2</td>
</tr>
<tr>
<td>EDU 311 Admission Field Experience Secondary</td>
<td>2</td>
</tr>
<tr>
<td>EDU 313 Instructional Technology</td>
<td>2</td>
</tr>
<tr>
<td>EDU 319 Classroom Climate Management: Secondary</td>
<td>1</td>
</tr>
<tr>
<td>EDU 325 Educational Assessment: Secondary</td>
<td>2</td>
</tr>
<tr>
<td>EDU 324 Fundamentals of Secondary Education</td>
<td>2</td>
</tr>
<tr>
<td>Select the methods courses for chosen teaching field</td>
<td>3-6</td>
</tr>
<tr>
<td>EDU 393 Secondary Field Experience I</td>
<td>2</td>
</tr>
<tr>
<td>EDU 396 Secondary Field Experience II</td>
<td>2</td>
</tr>
<tr>
<td>EDU 496 Clinical Experience Secondary</td>
<td>12</td>
</tr>
<tr>
<td>EDS 324 Instructional Planning for Inclusive Secondary Classrooms</td>
<td>3</td>
</tr>
<tr>
<td>EDS 360 Students with Exceptionalities in School</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Credits in Education: 40-43
Core Courses in Other Disciplines

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 100</td>
<td>Introduction to Psychology*</td>
<td>3</td>
</tr>
<tr>
<td>CMST 101</td>
<td>Public Speaking*</td>
<td>3</td>
</tr>
</tbody>
</table>

*These courses fulfill general education requirements in Individual and Society and Oral Communication.

Core Credits in Other Disciplines 6

TOTAL CORE CREDITS 46-49

Selected Teaching Field

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art (P-12)</td>
<td></td>
</tr>
<tr>
<td>Biology (8-12)</td>
<td></td>
</tr>
<tr>
<td>Chemistry (8-12)</td>
<td></td>
</tr>
<tr>
<td>Earth/Space Science (8-12)</td>
<td></td>
</tr>
<tr>
<td>English (8-12)</td>
<td></td>
</tr>
<tr>
<td>Health Education (P-12)</td>
<td>must be paired with another certification area</td>
</tr>
<tr>
<td>Mathematics (8-12)</td>
<td></td>
</tr>
<tr>
<td>Music (P-12)</td>
<td></td>
</tr>
<tr>
<td>Physical Education (P-12)</td>
<td></td>
</tr>
<tr>
<td>Physics (8-12)</td>
<td></td>
</tr>
<tr>
<td>Social Studies (8-12)</td>
<td></td>
</tr>
<tr>
<td>World Languages (P-12): French, Spanish, German</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL CONTENT CREDITS Varies

Secondary Education with Special Education: Students pursuing secondary education certification may also choose to concurrently complete a second major in special education. For courses leading to certification in special education, refer to the bachelor of arts with a major in special education program description.

Teacher Education Certification Programs

Middle Grades Extension Program

The middle grades extension program is intended for elementary or secondary pre-service and in-service teachers who want to extend their certification to include the middle grades (5-9). Core courses in teacher education are offered each fall and spring semester. Content courses are taught at various times. Students should contact the education advising office for additional information concerning specific content courses.

Program Requirements: Middle Grades Extension

<table>
<thead>
<tr>
<th>Courses in Teacher Education (Elementary pre- or in-service teachers)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 344</td>
<td>Fundamentals of Middle Grades Education</td>
</tr>
<tr>
<td>EDU 318</td>
<td>Classroom Climate Management: Middle School</td>
</tr>
<tr>
<td>EDU 391</td>
<td>Middle Grades Field Experience I</td>
</tr>
</tbody>
</table>

Select one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 345</td>
<td>Teaching Language Arts in Middle Grades</td>
<td></td>
</tr>
<tr>
<td>EDU 346</td>
<td>Teaching Science in Middle Grades</td>
<td>3</td>
</tr>
<tr>
<td>EDU 347</td>
<td>Teaching Mathematics in Middle Grades</td>
<td></td>
</tr>
<tr>
<td>EDU 348</td>
<td>Teaching Social Studies in Middle Grades</td>
<td></td>
</tr>
</tbody>
</table>

Credits in Teacher Education 9

Courses in Other Disciplines

Complete required content courses for middle grades certification. Required courses will be determined by a review of the student’s transcript.

<table>
<thead>
<tr>
<th>Credits in Other Disciplines</th>
<th>Varies</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL CORE CREDITS</td>
<td>Varies</td>
</tr>
</tbody>
</table>
College of Health Professions

Location: Albright Health Center 206  
Telephone: 859-572-5249  
Fax: 859-572-1934  
Email Address: healthprofessions@nku.edu  
Web Address: http://healthprofessions.nku.edu

Dean: Dale Scalise-Smith  
Assistant Dean: Shane Talbott (interim)  
Business Officer: Tracy Brate

The College of Health Professions welcomes all students interested in a health career. The college is the newest college on campus and prides itself on its strong commitment to students and to providing outstanding preparation for health careers in a variety of fields. Students are given opportunities to learn in and out of the classroom through online learning and high-fidelity simulation labs and in a wide array of clinical practice sites from the Greater Cincinnati/northern Kentucky region where they are able to get hands-on experience. Students are provided with learning experiences that lead them to be critical thinkers and compassionate clinicians that are in high demand in the workforce. In addition, students work closely with faculty on projects that benefit the larger community. Feel free to contact the college for more information or a tour of the facilities.

College Advising Center

Location: Albright Health Center 303  
Telephone: 859-572-5895  
Fax: 859-572-6098  
Email Address: healthprofessions@nku.edu

Key Personnel:  
Assistant Dean and Director: Shane Talbott (interim)  
Academic Advisor: Amanda Kilmer  
Academic Advisor: Heather Moulton  
Academic Advisor: Linda Palmer

The college advising center provides academic advising and assistance with program planning for students interested in the health professions. Students who are currently registered nurses also can obtain advising through this center.

Departments

Advanced Nursing Studies  
Allied Health  
Nursing

Accreditations

The nursing program is accredited by the Accreditation Commission for Education in Nursing, Inc.

The radiologic technology program is accredited by the Joint Review Committee on Education in Radiologic Technology.

The respiratory care program is accredited by the Commission on Accreditation for Respiratory Care.

College of Health Professions Policies

Student criminal background check: Healthcare agencies are charged with providing care and protecting the safety of vulnerable populations including children and the aged. Agencies used for clinical placement require students to undergo criminal background checks and may deny clinical access to those convicted of felonies and certain misdemeanors. Conviction of these offenses may result in a student’s denial of admission to, or dismissal from, the College of Health Professions. Applicants are required to submit to criminal background checks as identified by the College of Health Professions as part of the application process. The cost of this and any subsequent screening will be borne by the student. The student is responsible for notifying the College of Health Professions of any change in the status of this record. Note that successful completion of a criminal background check does not ensure eligibility for certification, licensure, or future employment.

 Centers

Northern Kentucky Nursing Research Collaborative

Location: Albright Health Center 354  
Telephone: 859-572-1939 or 859-572-7818  
Email Address: nknrc@nku.edu  
Web Address: http://healthprofessions.nku.edu/centers.html  
Director: Kimberly McErlane

The purpose of the Northern Kentucky Nursing Research Collaborative is to positively impact the health of the people of Kentucky through the implementation of community-driven interventions, interdisciplinary research methods, and the application of best practices. NKU nursing faculty and students, along with registered nurses from partnering community agencies, have access to the resources and services offered by the NKNRC. Structured workshops, seminars, and professional meetings focus on the development of the novice nurse researcher while encouraging and facilitating the application of nursing research within our own community.

Nurse Advocacy Center for the Underserved

Location: Albright Health Center 338  
Telephone: 859-572-6933  
Email Address: pfendtk@nku.edu  
Web Address: http://healthprofessions.nku.edu/centers.html  
Director: Kris Pfendt

The Nurse Advocacy Center for the Underserved provides outreach healthcare services to the underserved in northern Kentucky, and it advocates for social conditions that promote health. Caregivers are volunteer registered nurses. They provide healthcare at sites where the underserved live (shelters and apartments) and where they congregate (diners for the homeless). The main focus is to triage and care for minor medical problems, facilitate referrals to community providers, and provide health screenings, immunizations, and health education. NKU student nurses work with faculty members at each of the sites completing requirements for their community and leadership clinical experiences.
Radiologic Science

The Bachelor of Science in Radiologic Science at NKU provides students the opportunity to enter into a rapidly advancing field full of cutting-edge scientific progress using state-of-the-art equipment in a growing profession that offers a fulfilling and promising future. The radiologic science program is fully accredited by the Joint Review Committee on Education in Radiologic Technology.

Radiologic technologists (or radiographers) are healthcare professionals who create medical images of the body to help healthcare providers diagnose and treat illness and injury. NKU prepares students in the diagnostic field of radiologic technology. This area of professional practice involves the use of radiation to provide images for examination of the tissues, organs, bones, and vessels of the body.

Crucial to successful interpretation, the radiologic technologist is responsible for accurately and properly: preparing the patient for radiologic examinations; positioning the patient for radiologic examination; selecting the amount of X-ray exposure; processing the images; evaluating the image quality; and assisting the radiologist during fluoroscopic procedures.

Education for the radiography student is an integrated plan of classroom, laboratory, and clinical education. In addition to regular classroom coursework, students spend an average of 20 hours per week practicing their skills at an area clinical site.

Affiliated hospitals in the northern Kentucky/Greater Cincinnati area include: St. Elizabeth Healthcare – Covington, Edgewood, Fort Thomas, Florence, and Grant County (Ky.); Dearborn County Hospital (Lawrenceburg, Ind.); The Jewish Hospital – Kenwood (Cincinnati); Mercy Hospital Anderson (Cincinnati); and Mercy Hospital Clermont (Batavia, Ohio).

Special admission requirements: Due to the limited number of clinical placements and the competitive and appealing nature of the program, the radiologic science program has a selective admission process. The annual application deadline is February 15 for the class that will begin in July of that year.

The radiologic science admission committee determines academic eligibility and ranks the applicants. Approximately 24 students are accepted each year. The program does NOT maintain a waiting list that carries over from one year to the next; however, a small number of other candidates meeting the admission criteria may be placed on a waiting list in case vacancies occur prior to the beginning of "RAD 200: Introduction to Radiography."

To be considered for admission into the radiologic science program, students must meet the following requirements:

1. Satisfactory completion of the following courses with a grade of C or better in each course:
   a. BIO 208 and BIO 208L Human Anatomy and Physiology I with Laboratory.
   b. PHY 110 Introduction to Physics with Laboratory or CHE 115 with Laboratory.
   c. ENG 101 College Writing.
   d. Mathematics general education course (STA 205 or STA 212 required for program completion).

2. A minimum GPA of 2.5 in all college work attempted, based on a 4.00 scale.

3. Completion of an application worksheet based on research into the profession. Suggested websites are listed on the program’s website and in the program brochure.

Admission into the radiologic science program is completely objective and is based on academic screening. Applicants are awarded points based on the following:

1. Overall GPA based on the applicant’s most recent 45 credit hours.
2. Grades earned in prerequisite courses and program requirements.
3. Total number of credit hours earned.
4. Related healthcare experience (paid or volunteer).

Students attending NKU will be awarded bonus points in the application process.

Conditional acceptance into the program can be given to students enrolled in any of the prerequisite courses by the priority application date of February 15. Successful completion of these courses with a grade of C or better must be documented at the end of the term for final program admission.

Student criminal background check: Healthcare agencies are charged with providing care and protecting the safety of vulnerable populations including children and the aged. Agencies used for clinical placement require students to undergo criminal background checks and may deny clinical access to those convicted of felonies and certain misdemeanors. Conviction of these offenses may result in a student’s denial of admission to, or dismissal from, the College of Health Professions. Students admitted to the radiologic science program are required to submit to criminal background checks as identified by the College of Health Professions. Failure of the background check will result in the inability to be placed at a clinical site and subsequent dismissal from the program.

The student is responsible for notifying the College of Health Professions of any change in the status of this record. Note that successful completion of a criminal background check does not ensure eligibility for certification, licensure, or future employment.

You should also know: The radiologic science program is a full-time, daytime program. During the course of the program, students will complete a limited number of evening shift clinical assignments.
Candidates eligible for the radiologic science program must be able to meet the following technical standards. These standards specify the skills necessary for successful completion of the program and subsequent employment as a radiologic technologist (radiographer).

Sufficient visual acuity to:
- Assess skin tone changes detectable in cyanotic or flushed skin.
- Detect color shades/tones such as shades of gray seen on radiographs.
- Evaluate radiographs for quality
- Read printed words in textbooks and on medical equipment.

Sufficient hearing to:
- Communicate with patients and other members of the healthcare team.
- Monitor patients via audio monitors.
- Hear background sounds during equipment operations.
- Respond to the audible sounds of the equipment.

Sufficient gross and fine motor coordination to:
- Manipulate equipment and accessories.
- Lift a minimum of 30 pounds.
- Stoop, bend, or promptly assist patients who become unstable.

Satisfactory physical strength and endurance to:
- Move immobile patients to or from a stretcher or wheelchair to the X-ray table.
- Work with arms extended overhead (approximately 80" from the floor).
- Carry 30 pounds while walking.
- Stand in place for long periods of time.

Satisfactory verbal, reading, and writing skills to:
- Explain radiologic procedures.
- Direct patients during radiologic procedures.
- Communicate in English for effective and prompt interaction with patients, fellow students, faculty, and hospital personnel.

Satisfactory intellectual and emotional functions to:
- Ensure patient safety.
- Exercise independent judgment and discretion in the performance of assigned responsibilities.
- Measure, calculate, reason, and evaluate as required for direct patient care.
- Handle stressful situations related to procedural standards and patient care situations.

Must be physically free of illegal drugs and alcohol. Drug testing may be required by specific clinical sites at the student’s expense. Failure of a drug test may result in program dismissal.

Students with a disability should declare the disability and provide verification to the Office of Disability Programs and Services so that reasonable accommodations can be made.

Professional advanced standing is available for students who (1) have graduated from an accredited postsecondary vocational or hospital-based program in radiologic technology and (2) have passed the American Registry of Radiologic Technologists national examination. These students will be awarded up to 51 hours toward completion of NKU professional course requirements in radiologic science. Students admitted into the baccalaureate degree program under the advanced standing policy will be held accountable for meeting all prevailing university and program requirements for graduation.

Progression: A student must achieve a grade of at least C in each RAD course, as well as in required courses for the major, in order to continue in the program.

Degree Requirements: B.S. – Radiologic Science

<table>
<thead>
<tr>
<th>Selective Admission Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 208/ and BIO 208L</td>
<td>Human Anatomy and Physiology I with Laboratory</td>
</tr>
<tr>
<td>PHY 110</td>
<td>Introduction to Physics with Laboratory --OR--</td>
</tr>
<tr>
<td>CHE 115</td>
<td>Physiological Chemistry with Laboratory</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing</td>
</tr>
<tr>
<td>STA 205</td>
<td>Introduction to Statistical Methods --OR--</td>
</tr>
<tr>
<td>STA 212</td>
<td>Statistics for Business Applications</td>
</tr>
</tbody>
</table>

Credits for Selective Admission: 14

Courses in Radiologic Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAD 200</td>
<td>Introduction to Radiography</td>
</tr>
<tr>
<td>RAD 208</td>
<td>Radiographic Procedures I</td>
</tr>
<tr>
<td>RAD 208L</td>
<td>Radiographic Positioning Laboratory</td>
</tr>
<tr>
<td>RAD 209</td>
<td>Radiographic Procedures II</td>
</tr>
<tr>
<td>RAD 209L</td>
<td>Radiographic Positioning Laboratory II</td>
</tr>
<tr>
<td>RAD 214</td>
<td>Analysis of Radiographic Quality</td>
</tr>
<tr>
<td>RAD 214L</td>
<td>Analysis Radiographic Quality Laboratory</td>
</tr>
<tr>
<td>RAD 216</td>
<td>Physical Principles of Radiographic Equipment</td>
</tr>
<tr>
<td>RAD 286</td>
<td>Radiographic Practicum I</td>
</tr>
<tr>
<td>RAD 296</td>
<td>Radiographic Practicum II</td>
</tr>
<tr>
<td>RAD 304</td>
<td>Radiographic Practicum III</td>
</tr>
<tr>
<td>RAD 309</td>
<td>Radiographic Practicum IV</td>
</tr>
<tr>
<td>RAD 310</td>
<td>Sectional Anatomy</td>
</tr>
<tr>
<td>RAD 340</td>
<td>Radiation Biology and Protection</td>
</tr>
<tr>
<td>RAD 350</td>
<td>Clinical Pathology for Radiographers</td>
</tr>
<tr>
<td>RAD 376</td>
<td>Radiographic Practicum III</td>
</tr>
<tr>
<td>RAD 388</td>
<td>Radiographic Practicum IV</td>
</tr>
<tr>
<td>RAD 396</td>
<td>Radiographic Practicum V</td>
</tr>
<tr>
<td>RAD 470</td>
<td>Principles of Computed Tomography</td>
</tr>
<tr>
<td>RAD 480</td>
<td>Radiography Seminar</td>
</tr>
<tr>
<td>RAD 486</td>
<td>Radiographic Practicum VI</td>
</tr>
<tr>
<td>RAD 496</td>
<td>Radiographic Practicum VII</td>
</tr>
</tbody>
</table>

Credits in Radiologic Science: 62

Courses in Other Disciplines

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 209/ and BIO 209L</td>
<td>Human Anatomy and Physiology II and Human Anatomy and Physiology II Laboratory</td>
</tr>
<tr>
<td>BIO 272</td>
<td>Medical and Biological Terminology</td>
</tr>
<tr>
<td>HIN 355</td>
<td>Introduction to Health Informatics</td>
</tr>
<tr>
<td>HSC 410</td>
<td>Healthcare Management</td>
</tr>
<tr>
<td>HSC 421</td>
<td>Healthcare Research</td>
</tr>
<tr>
<td>HSC 460</td>
<td>Concepts of Quality Patient Care</td>
</tr>
<tr>
<td>Gen Ed</td>
<td>Written Communication II</td>
</tr>
<tr>
<td>Gen Ed</td>
<td>Cultural Pluralism</td>
</tr>
<tr>
<td>Gen Ed</td>
<td>Individual and Society</td>
</tr>
<tr>
<td>Gen Ed</td>
<td>Culture and Creativity</td>
</tr>
<tr>
<td>Gen Ed</td>
<td>Global Viewpoints</td>
</tr>
<tr>
<td>HSC 440</td>
<td>Issues in Chronic Disease Management</td>
</tr>
<tr>
<td>HSC 413</td>
<td>Aging in Today’s Society</td>
</tr>
<tr>
<td>HSC 450</td>
<td>HSC Advanced Imaging Technology</td>
</tr>
<tr>
<td>HSC 494</td>
<td>Topics in Healthcare</td>
</tr>
</tbody>
</table>

Select one course from the following:
- HSC 410 | Healthcare Management |
- HSC 413 | Aging in Today’s Society |
- HSC 450 | HSC Advanced Imaging Technology |
- HSC 494 | Topics in Healthcare |

The schedule for the week is full with classes and clinical assignments as well as out-of-class/clinical assignments. The time frame is demanding, and any work outside of the program needs to be both flexible and limited in hours per week in order for the student to be successful.

The preceding course listings and credits for the College of Health Sciences are not necessarily specific to your program. Candidates should consult with their advisors regarding their individual course needs and requirements.

HSC 440 | Issues in Chronic Disease Management |
HSC 413 | Aging in Today’s Society |
HSC 450 | HSC Advanced Imaging Technology |
HSC 494 | Topics in Healthcare |
Respiratory Care

Respiratory care is the allied health profession devoted to the diagnosis, treatment, and rehabilitation of patients with diseases of the respiratory system. Respiratory therapists must have a thorough understanding of normal pulmonary anatomy and physiology and of the pathology and treatment of various breathing-related disorders. They work in adult and pediatric hospitals, in some nursing homes, and for a growing number of home-care companies. With the authorization of a healthcare provider, they give aerosolized medications and various special breathing treatments to patients with acute or chronic pulmonary disease. Respiratory therapists are life-support specialists, setting up artificial ventilators for patients of all ages who cannot breathe for themselves. When a cardiac arrest occurs in the hospital, respiratory therapists provide cardiopulmonary resuscitation and manual ventilation. With sophisticated equipment, they measure the effectiveness of breathing and levels of oxygen and carbon dioxide in the blood. Following recognized protocols or authorized orders, they institute therapies to reduce the work of breathing and to improve ventilation and oxygenation.

The professional program is six semesters long. Besides didactic, lab, and clinical training in basic respiratory care, the first professional year includes courses in microbiology and anatomy/physiology. The second professional year focuses on more advanced or specialized modalities of respiratory care. The third professional year includes courses necessary to develop an informed, broadly educated healthcare professional. To provide experience with patients, the program has clinical affiliations with hospitals in the northern Kentucky and Greater Cincinnati area. Successful completion of the program leads to the Associate of Applied Science and to eligibility for the C.R.T. and R.R.T. credentialing examinations given by the National Board for Respiratory Care. After passing the C.R.T. exam, the graduate is eligible for a Kentucky Mandatory Certificate, an Ohio Respirator license, or licensure in another state.

Special admission requirements: The respiratory care program admits students each fall through a selective admission process. Once applicants have regular admission to NKU, they will be considered for the professional RSP courses if these criteria are met:

1. Complete a program application form.
2. Possess a GPA of 2.30 or higher on previous college coursework, assuming a 4.0 scale.
3. Completion of CHE 115/115L (with a C- or higher).
4. Completion of general education courses in the "written I" and "oral" parts of the communication category.
5. Completion of BIO 208/208L with a grade of C or higher.
6. Completion of STA 205 with a grade of C or higher.
7. Completion of HSC 101 with a grade of C or higher.
8. Successful completion of a criminal background check prior to final acceptance into the program.

Applications completed prior to February 15 are given priority. Conditional acceptance into the program can be given to students enrolled in any prerequisite course by the priority application date of February 15. Successful completion of these courses must be documented at the end of the term for final program admission. Students will be notified of their admission status in writing. Students who want to major in respiratory care but do not yet meet the above criteria should declare pre-respiratory care (XRSP) as their major, apply for acceptance into the program, and follow the advice of their respiratory care faculty advisor. Many students take prerequisites, general education, and science requirements before starting the professional RSP course sequence. Students must also fulfill the immunization requirements listed on the respiratory care program immunization form and described in the respiratory care program student handbook before they are given hospital clinical assignments, a required part of the curriculum.

Student criminal background check: Healthcare agencies are charged with providing care and protecting the safety of vulnerable populations including children and the aged. Agencies used for clinical placement require students to undergo criminal background checks and may deny clinical access to those convicted of felonies and certain misdemeanors. Conviction of these offenses may result in a student’s denial of admission to, or dismissal from, the College of Health Professions. Applicants are required to submit to criminal background checks as identified by the College of Health Professions as part of the application process. The cost of this and any subsequent screening will be borne by the student. The student is responsible for notifying the College of Health Professions of any change in the status of this record after starting the program. Note that successful completion of a criminal background check does not ensure eligibility for certification, licensure, or future employment. All students must be physically free of illegal drugs and alcohol. Drug testing may be required by specific clinical sites at the student’s expense. Failure of a drug test may result in program dismissal.

Technical standards: Candidates eligible for the respiratory care program must be able to meet the following technical standards. These standards specify skills necessary for successful completion of the program and subsequent employment as a respiratory care practitioner.

<table>
<thead>
<tr>
<th>Issue</th>
<th>Standard</th>
<th>Some Examples of Necessary Activities (not all inclusive)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Critical Thinking</td>
<td>Critical thinking ability sufficient for clinical judgment.</td>
<td>Identify cause-effect relationships in clinical situations, develop respiratory care plans.</td>
</tr>
<tr>
<td>Communication</td>
<td>Communication abilities sufficient for interaction with others in oral and written forms.</td>
<td>Explain treatment procedures, initiate health teaching, document and interpret therapeutic procedures and patient/client responses.</td>
</tr>
<tr>
<td>Interpersonal Skills</td>
<td>Interpersonal abilities sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds.</td>
<td>Establish rapport with patients and colleagues from a variety of social, emotional, cultural, and intellectual backgrounds.</td>
</tr>
<tr>
<td>Mobility</td>
<td>Physical abilities sufficient to move from room to room and maneuver in small spaces.</td>
<td>Move around in patients’ rooms, work spaces, and treatment areas; administer cardio-pulmonary procedures.</td>
</tr>
<tr>
<td>Motor Skills</td>
<td>Gross and fine motor abilities sufficient to provide safe and effective respiratory care.</td>
<td>Calibrate and use equipment; position patients/clients.</td>
</tr>
<tr>
<td>Hearing</td>
<td>Auditory ability sufficient to monitor and assess health needs.</td>
<td>Hear monitor alarms, emergency signals, and auscultatory sounds.</td>
</tr>
</tbody>
</table>
Visual
Visual ability sufficient for observation and assessment necessary in respiratory care. Observe patient/client responses; able to differentiate color.

Tactile
Tactile ability sufficient for physical assessment. Perform palpation, functions of physical examination and those related to therapeutic intervention (for example, insertion of a catheter).

*Students with disabilities should declare the disability and provide verification to the Office of Disability Services so reasonable accommodations can be made.

**Progression:** A student must achieve a grade of at least C in each respiratory care course, as well as in each science course and required courses for the major, in order to continue in the program. Accurate knowledge of chemistry and human anatomy and physiology is essential for the effective application of respiratory therapy. For this reason, the required science courses must be taken before or during the semester in which they are listed in the program curriculum. Science courses older than seven years or with grades lower than C will not be recognized as fulfilling program requirements.

**Assessment of Major:** In the fifth term, as part of “RSP 480: Respiratory Care Seminar” students as a group must take the entry-level and written registry self-assessment examinations from the National Board for Respiratory Care. The examinations (1) give students the opportunity to demonstrate a synthesis of knowledge about respiratory care, (2) help Respiratory Physiology and Physics

**You should also know:** The respiratory care program is a full-time, daytime program. The schedule is challenging with classes and clinical activities each day plus out-of-class/clinical assignments. The time frame is demanding, and any work outside of the program needs to be both flexible and limited in hours per week in order for the student to be successful in the respiratory care program.

**Degree Requirements: B.S. – Respiratory Care**

<table>
<thead>
<tr>
<th>Selective Admission Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 115/115L</td>
<td>4</td>
</tr>
<tr>
<td>Gen Ed</td>
<td></td>
</tr>
<tr>
<td>HSC 101</td>
<td>3</td>
</tr>
<tr>
<td>STA 205</td>
<td>3</td>
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<td>STA 212</td>
<td></td>
</tr>
<tr>
<td>Gen Ed</td>
<td>3</td>
</tr>
<tr>
<td>BIO 208 and BIO 208L</td>
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</tr>
</tbody>
</table>

**Credits for Selective Admission** 20

<table>
<thead>
<tr>
<th>Courses in Respiratory Care</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSP 201</td>
<td>3</td>
</tr>
<tr>
<td>RSP 201L</td>
<td>1</td>
</tr>
<tr>
<td>RSP 286</td>
<td>3</td>
</tr>
<tr>
<td>RSP 220</td>
<td>4</td>
</tr>
<tr>
<td>RSP 296</td>
<td>3</td>
</tr>
<tr>
<td>RSP 310</td>
<td>5</td>
</tr>
<tr>
<td>RSP 235</td>
<td>3</td>
</tr>
<tr>
<td>RSP 386</td>
<td>3</td>
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</tbody>
</table>

**Credits in Respiratory Care** 55

<table>
<thead>
<tr>
<th>Courses in Other Disciplines</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 105</td>
<td>2</td>
</tr>
<tr>
<td>HSC 291W</td>
<td>3</td>
</tr>
<tr>
<td>HIN 355</td>
<td>3</td>
</tr>
<tr>
<td>BIO 208/208L</td>
<td>4</td>
</tr>
<tr>
<td>BIO 202/202L</td>
<td>4</td>
</tr>
<tr>
<td>HSC 421</td>
<td>3</td>
</tr>
<tr>
<td>HSC 410</td>
<td>3</td>
</tr>
<tr>
<td>HSC 430</td>
<td>3</td>
</tr>
<tr>
<td>HSC 460</td>
<td>3</td>
</tr>
</tbody>
</table>

**Credits in Other Disciplines** 28

**TOTAL CREDITS** 83

**Health Science Major**

**Bachelor of Science with a major in Health Science**

Available exclusively in a fully-online format.

The Bachelor of Science in health science is an interdisciplinary, degree-completion program that provides an opportunity for healthcare professionals to enhance their knowledge and skills, improving the possibility for career mobility. The program prepares graduates for a variety of positions in health-related organizations including, for example, administration, management, advanced clinical practice, clinical educator, and clinical applications.

This degree-completion program is offered in a totally online format to graduates of associate of applied science or associate of science programs and is taught in the online format. Two tracks are available. The clinical track is designed for individuals whose degree is in a clinically-based healthcare discipline and are registered or otherwise appropriately credentialed in their profession. The non-clinical track is designed for individuals who have an appropriate associate degree but do not have clinical skills or credentials and wish to pursue a career in some aspect of healthcare that does not involve direct patient care.

Evaluation of transfer credit hours and program planning is individualized; each student is assisted by a program advisor.

**Special admission requirements:** The program accepts students throughout the year to begin the program in fall, spring, or summer, depending on when the program admission process is completed. The first step in the process is admission to NKU. Students must also submit a program application, have an associate degree or 60 credit hours completed and meet the academic requirements for the track of choice to be eligible for program admission.

**Application requirements for all students:**

- Admission to NKU; official transcripts from all regionally-accredited postsecondary institutions must be sent to NKU from these institutions.
• Possess an associate of applied science (AAS) degree or equivalent from a regionally accredited institution; this degree serves as the imbedded minor for the program.
• Possess a cumulative GPA of 2.30 or higher on a 4.00 scale.
• Submit a program application specific to the track – clinical or non-clinical track.

In addition to the above requirements, applicants must meet requirements specific to the track of interest:

Clinical Completion Track – This track does not require additional clinical coursework, but was designed for those who have clinical credentials. To be eligible for admission to the clinical track, students must submit documentation of current state or national registry/certification in an appropriate healthcare discipline.

Non-Clinical Completion Track – This track was designed for those who do not have clinical credentials but wish to work in a non-clinical area of healthcare. To be eligible for admission to the non-clinical track, students must demonstrate knowledge and understanding of anatomy and physiology as well as other related coursework by completing, at a minimum, the following coursework:

• Anatomy and physiology
• Medical terminology
• Ethics
• Computer literacy course with a grade of C or better.
• Introduction to Psychology, with a grade of C or better.

Student criminal background check: Although clinical practica are not required of students enrolled in this program, any student who wishes to enroll in a clinical course as a major elective must meet minimum requirements to do so, including a criminal background check and also drug screening for select sites. Students wishing to pursue this option must discuss the requirements with the program director.

Special graduation requirements:
• A minimum grade of C or better for successful completion of major requirements, including major electives.
• The clinical track requires verification of registry/certification with appropriate professional organization; detailed information will be included in the program acceptance letter for those who are conditionally admitted to the program prior to taking the board examination.

You should also know: The Bachelor of Science in health science is delivered completely in the online format. The NKU application for admission and the registration process are handled online. The program application can be downloaded from the health science website (http://healthprofessions.nku.edu/departments/alliedhealth/programs/healthscience.html) and faxed to 859-572-1314, or emailed to the program (healthscience@nku.edu). The course registration process and new student orientation are also completed online. The format and timeline are flexible in consideration of the working practitioner. See the online program curriculum schedule (http://nkounline.nku.edu/undergraduate/programs/bshealthscience.html).

Courses currently available online are included on the elective list and students who wish to enroll in alternate courses on campus may do so with director approval.

Advanced standing examination: Students who hold advanced credentials in radiologic technology or nuclear medicine (for example, CT, MRI, cardiovascular imaging, PET, etc.) or respiratory care (for example, polysomnography) may be awarded up to six hours of coursework at the 300 level or above that may be used toward the elective requirements for the major. Advanced credentials must have been awarded by a recognized national organization, such as the American Registry of Radiologic Technologists, Nuclear Medicine Technology Certification Board, Board of Registered Polysomnography Technologists, or the National Board for Respiratory Care. The awarding of credit must be approved by the program director; students will be assessed a tuition equal to 25 percent of the current tuition plus any fees.

Professional advanced standing: Advanced standing is also available for radiographers who have graduated from an accredited radiography program, but who may not have coursework that transfers to NKU. Students must have passed the American Registry of Radiologic Technologists national examination, have maintained their certification and can provide documentation of current certification. These students may be awarded up to 51 hours of radiography professional coursework, dependent upon year of initial certification; award of credit will be evaluated on an individual basis.

This advanced standing policy is limited to students completing the health science program. Credit hours earned under this policy may not be used to satisfy the residency requirements for graduation. Students who earn these credit hours must meet all prevailing university and program requirements for graduation.

Except for RAD and RSP courses, no more than two non-HSC courses can be taken to fulfill major requirements.

Degree Requirements: B.S. in Health Science – Clinical Track

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 410</td>
<td>Healthcare Management</td>
</tr>
<tr>
<td>HSC 413</td>
<td>Aging in Today’s Society</td>
</tr>
<tr>
<td>HSC 421</td>
<td>Healthcare Research</td>
</tr>
<tr>
<td>HSC 460</td>
<td>Concepts of Quality Patient Care</td>
</tr>
<tr>
<td>HSC 480</td>
<td>Global Perspectives of Health Care</td>
</tr>
<tr>
<td>HIN 355</td>
<td>Introduction to Health Informatics</td>
</tr>
<tr>
<td>LDR 308</td>
<td>Leadership Development</td>
</tr>
<tr>
<td>STA 205</td>
<td>Introduction to Statistical Methods – OR -- Statistics for Business Applications</td>
</tr>
<tr>
<td>STA 212</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Select three courses from the following:</td>
<td></td>
</tr>
<tr>
<td>HSC 430</td>
<td>Health Professional as Educator</td>
</tr>
<tr>
<td>HSC 440</td>
<td>Issues in Chronic Disease Management</td>
</tr>
<tr>
<td>HSC 494</td>
<td>Topics in Healthcare</td>
</tr>
<tr>
<td>HSC 580</td>
<td>Applied Healthcare Management</td>
</tr>
<tr>
<td>RAD 310</td>
<td>Sectional Anatomy</td>
</tr>
<tr>
<td>RAD 450</td>
<td>Advanced Imaging Pathology</td>
</tr>
<tr>
<td>RAD 470</td>
<td>Principles of Computed Tomography</td>
</tr>
<tr>
<td>RAD 496</td>
<td>Practicum: Advanced Imaging</td>
</tr>
<tr>
<td>RSP 441</td>
<td>Disease Management</td>
</tr>
<tr>
<td>RSP 442</td>
<td>Disease Management II</td>
</tr>
<tr>
<td>HSR 314</td>
<td>Death, Dying and Grief</td>
</tr>
<tr>
<td>LDR 382</td>
<td>Organizational Theory and Change*</td>
</tr>
<tr>
<td>LDR 381</td>
<td>Organizational Ethics and Decision Making*</td>
</tr>
<tr>
<td>LDR 385</td>
<td>Teamwork in Organizations*</td>
</tr>
<tr>
<td>PSY 302</td>
<td>The Human Side of Work*</td>
</tr>
<tr>
<td>PSY 333</td>
<td>Abnormal Psychology*</td>
</tr>
<tr>
<td>PSY 344</td>
<td>Industrial/Organizational Psychology*</td>
</tr>
<tr>
<td>CMST 303</td>
<td>Organizational Communication*</td>
</tr>
<tr>
<td>CMST 333</td>
<td>Lifespan Communication*</td>
</tr>
<tr>
<td>CMST 355</td>
<td>Culture and Communication*</td>
</tr>
<tr>
<td>CMST 403</td>
<td>Health Communication*</td>
</tr>
</tbody>
</table>

| Total Program Credits | 33 |
| TOTAL CREDITS | 33 |

*No more than two PSY, two CMST or one LDR course may be used as electives for the major.
B.S. in Health Science – Non-clinical track

Students accepted to the non-clinical track must complete the following required courses plus a focus or minor. An example of a focus in informatics, in addition to the health science core requirements, is illustrated below; students may also choose other minor or focus options, as discussed with the academic advisor.

### Non-clinical track – Basic

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 410</td>
<td>Healthcare Management</td>
<td>3</td>
</tr>
<tr>
<td>HSC 421</td>
<td>Healthcare Research</td>
<td>3</td>
</tr>
<tr>
<td>HSC 480</td>
<td>Global Perspectives of Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>HIN 355</td>
<td>Introduction to Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HIN 356</td>
<td>Health Information Management</td>
<td>3</td>
</tr>
<tr>
<td>BIS 330</td>
<td>IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>LDR 308</td>
<td>Leadership in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>STA 205</td>
<td>Introduction to Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>STA 212</td>
<td>Statistics for Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>CMST 303</td>
<td>Organizational Communication</td>
<td>3</td>
</tr>
<tr>
<td>PSY 302</td>
<td>The Human Side of Work</td>
<td>3</td>
</tr>
<tr>
<td>PSY 344</td>
<td>Industrial/Organizational Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 300</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BIS 275</td>
<td>Business Process Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BIS 382</td>
<td>Principles of Information Security</td>
<td>3</td>
</tr>
<tr>
<td>INF 282</td>
<td>Introduction to Databases</td>
<td>3</td>
</tr>
<tr>
<td>CEP 300</td>
<td>Cooperative Education</td>
<td>3-6</td>
</tr>
</tbody>
</table>

**Total Major Credits** 33

### Non-clinical track – Basic Core+Focus

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 410</td>
<td>Healthcare Management</td>
<td>3</td>
</tr>
<tr>
<td>HSC 421</td>
<td>Healthcare Research</td>
<td>3</td>
</tr>
<tr>
<td>HSC 480</td>
<td>Global Perspectives of Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>HIN 355</td>
<td>Introduction to Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>BIS 330</td>
<td>IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>LDR 308</td>
<td>Leadership in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>STA 205</td>
<td>Introduction to Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>STA 212</td>
<td>Statistics for Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>CMST 303</td>
<td>Organizational Communication</td>
<td>3</td>
</tr>
<tr>
<td>PSY 302</td>
<td>The Human Side of Work</td>
<td>3</td>
</tr>
<tr>
<td>PSY 344</td>
<td>Industrial/Organization Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HIN 356</td>
<td>Health Information Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 333</td>
<td>Lifespan Communication</td>
<td>3</td>
</tr>
<tr>
<td>CMST 403</td>
<td>Health Communication</td>
<td>3</td>
</tr>
<tr>
<td>BIS 275</td>
<td>Business Process Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BIS 382</td>
<td>Principles of Information Security</td>
<td>3</td>
</tr>
<tr>
<td>INF 282</td>
<td>Introduction to Databases</td>
<td>3</td>
</tr>
<tr>
<td>CEP 300</td>
<td>Cooperative Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INF 282</td>
<td>Introduction to Databases</td>
<td>3</td>
</tr>
<tr>
<td>BIS 300</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BIS 380</td>
<td>Quantitative Analysis with Excel</td>
<td>3</td>
</tr>
<tr>
<td>BIS 382</td>
<td>Principles of Information Security</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits Major+Focus** 39
Nurses Association, College of Health Professions Student Ambassadors, Nursing students have opportunities to become members of the Student agencies in northern Kentucky and the Greater Cincinnati area, and NKU's include planned clinical experiences in the community, local healthcare Special opportunities for our students their nursing education at the master's and doctoral levels. Licensure Examination for Registered Nurses (NCLEX pre Graduates are awarded the degree of Bachelor of Science in nursing, and as of nursing. Providers of nursing care, managers of care, and as members of the discipline registered nurse. Knowledge acquired in the nursing program can be applied exciting field. The R.N. to B.S.N. program provides career mobility for the are successful. NKU's Bachelor of Science in nursing flight nurses, forensic nurses, legal consultants, and much more. Thinking about the discipline Nurses are key members of the healthcare team. Nurses work in hospitals, community agencies, business and industry, and health promotion and prevention. Nurses also work as travel nurses, flight nurses, forensic nurses, legal consultants, and much more. Nursing is a rigorous course of study and only the most dedicated students are successful. NKU's Bachelor of Science in nursing prepares traditional college students and second-degree students for entry-level practice in this exciting field. The R.N. to B.S.N. program provides career mobility for the registered nurse. Knowledge acquired in the nursing program can be applied directly to practice. Graduates of the program are prepared to function as providers of nursing care, managers of care, and as members of the discipline of nursing.

Graduates are awarded the degree of Bachelor of Science in nursing, and as pre-licensure graduates are eligible to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN) and to continue their nursing education at the master's and doctoral levels.

Special opportunities for our students: The A.B.S.N. and B.S.N. programs include planned clinical experiences in the community, local healthcare agencies in northern Kentucky and the Greater Cincinnati area, and NKU's state-of-the-art simulation laboratory. Nursing students have opportunities to become members of the Student Nurses Association, College of Health Professions Student Ambassadors, African American student support group, student advisory board, and American Assembly for Men in Nursing, and participate in service-learning opportunities with the Nurse Advocacy Center for the Underserved and other community agencies. Interested students also have an opportunity to study nursing abroad in Mexico and other countries in the summers. Awards given in the department include: membership in Sigma Theta Tau Rho Theta Chapter (honor society for nursing) and leadership, academic, and caring spirit awards.

Special admission requirements for traditional and B.S.N. second-degree programs: Nursing is a selective admission program. All applicants must be accepted to NKU as degree-seeking students and must submit a separate application for the nursing program when eligible to apply. All prerequisites and co-requisites must be completed with a C or higher; grades of C- are not accepted. All science courses taken as prerequisites for admission to the program must be fewer than eight years old as of the first day of the semester in which the program is started. A certain level of English proficiency is necessary for academic success in nursing as well as for patient and client safety. For this reason, applicants whose native language is other than English must demonstrate an established level of English proficiency by taking the Internet-based TOEFL as part of the application process and have a minimum cumulative score of 90 with minimum individual scores of 26 in speaking, 22 in listening, 20 in writing, and 22 in reading. Only official scores will be accepted and the testing must be within two years of application to the program. "Official language" is defined as an individual's first acquired language and the language of educational instruction. For a complete list of NKU approved countries with English as the "official language," please contact the Office of International Students and Scholars at 859-572-6517. The test of English as a foreign language is offered by the Educational Testing Service and may be taken at various test centers throughout the world. Students must register for and take the Internet-based TOEFL. Only the iBT will be accepted for applicants to the undergraduate nursing programs. Students need to enter a code for Northern Kentucky University when they register for the TOEFL. The school code is # 1574. Students must take the test early enough to ensure that the results are reported to the university by required application deadlines.

The TOEFL requirement may be appealed under extenuating circumstances. The appeal should be made in writing to the Dean of the College of Health Professions. The Department of Nursing may request an applicant have an interview with the Department Chairperson or designee.

Admission to nursing is provisional based on successful completion of prerequisites, GPA, passage of the criminal background check administered through NKU’s police department and minimum score on the TOEFL, if required.

- Applicants without a bachelor’s degree should see program requirements for the traditional B.S.N. program. Those with a bachelor’s degree who want the accelerated track should see requirements for the B.S.N. second-degree program. Registered nurses with an associate degree or diploma should see program requirements for the R.N. to B.S.N.

You should also know: Nursing majors are not required to have a minor or focus. The Kentucky Board of Nursing has regulations regarding previous felony and misdemeanor convictions that must be addressed prior to sitting for the licensure examination.
The department reserves the right to change the program of study as needed to fulfill state approval and national certification requirements, including the Accreditation Commission for Education in Nursing and Kentucky Board of Nursing.

All B.S.N. and A.B.S.N. students are required to participate in the Evolve® Curriculum Support Program. This is a commercial program that provides additional resources for student learning. See B.S.N. and A.B.S.N. program descriptions for details.

**Statement regarding when courses are offered in the Department of Nursing:** Independent studies: “NRS 299: Independent Study” and “NRS 499: Independent Study” will be offered, as needed, each semester. “NRS 300: Remediation Seminar” will be offered each semester, as needed, for students who score below 850 on their mid-curricular assessment. *NRS 400: Remediation** will be offered each semester, as needed, for students who score below 900 on the HESI RN-Exit exam.

*This course can be taken voluntarily by students who achieve over 900 on the HESI RN-Exit exam on a space available basis.

**Traditional Bachelor of Science in Nursing Program**

This is a traditional four-year program designed for those who do not have a bachelor’s degree and are not yet registered nurses. Others who might consider this track are those with a bachelor’s degree who want to move at a slower pace than the accelerated B.S.N. and licensed practical nurses who want to become registered nurses. The B.S.N. curriculum is based on concepts and theories of nursing, liberal arts, and the sciences. The nursing process is incorporated throughout the curriculum. Carefully planned experiences, such as simulation and clinical experiences are an integral part of the program of study, beginning in the first semester and continuing throughout. Hospitals and healthcare agencies in northern Kentucky, Greater Cincinnati, and southern Indiana serve as clinical practice settings during day and evening hours. Many members of the faculty continue to practice in healthcare settings and participate in research and other scholarly endeavors. Graduates of the B.S.N. program use critical thinking, communication, and technical skills to provide care to individuals and families. Knowledge is specific and factual and can be applied directly to practice.

**Pre-major requirements:** Incoming freshman students may declare pre-nursing as their major if they have a minimum ACT composite score of 20 or higher and no academic deficiencies. Transfer students with more than 24 credit hours must have a minimum GPA of 2.50. Transfer students with fewer than 24 earned credit hours must have a minimum GPA of 2.50, a minimum ACT composite score of 20 or higher and no academic deficiencies. Current NKU students seeking to change their major to pre-nursing must have a minimum GPA of 2.50 and must schedule an appointment with an academic advisor by calling 859-572-5895. Students majoring in pre-nursing will be helped by an academic advisor to develop an educational plan for nursing admission and progression. Students are allowed to maintain their pre-nursing status for only three semesters before applying to the B.S.N. program. If students do not meet the criteria for acceptance into the baccalaureate nursing program after three semesters, they will be encouraged to select another major to facilitate their timely graduation from NKU.

Pre-nursing students may enroll in courses that fulfill the prerequisite classes to apply to nursing and the support courses to progress into the nursing baccalaureate program, plus general education courses required for the bachelor’s degree in nursing. They may not take nursing classes until admitted to begin the program.

**Admission requirements:** Students who apply by January 15 are applying to begin nursing courses the following fall semester. Students who apply by August 15 are applying to begin nursing courses the following spring semester.

To be considered for the selective admission to the B.S.N. program all applicants must:

1. Be admitted to NKU as a degree-seeking student with no academic deficiencies.
2. Submit a separate application to the nursing program. The application is available in the nursing office in Albright Health Center 303. Mail or fax the completed application to the Department of Nursing. Applications to the nursing program may also be submitted online (http://healthprofessions.nku.edu/departments/nursing/undergrad/f orm.html). Applications to the nursing program are in addition to the university application.
3. Have the following minimum grade requirements and eligibilities:
   a. A minimum grade of C or higher in BIO 208/208L
   b. A minimum grade of C or higher in PSY 100
   c. Be eligible to take CHE 115/115L
   d. Be eligible to take STA 205 -- OR -- STA 212
   e. Earn grades in nursing support courses of C or higher. Support courses include PSY 100, PSY 321 -- OR -- EDU 300, STA 205 -- OR -- STA 212, HIN 355, BIO 202/202L, BIO 126, BIO 208/208L, BIO 209/209L, CHE 115/115L -- OR -- CHE 120/120L and CHE 121/121L. Grades of C are not accepted for prerequisites, co-requisites or nursing classes.
   f. A minimum cumulative GPA of 3.00 on a 4.00-point scale or 3.00 on a 4.00 scale on all previous college work for the last 60 credit hours, whichever is higher. GPAs for admission to the B.S.N. program will be calculated using NKU and transfer coursework.
   g. No more than one semester of science course failures in the required science courses for the program in the last four years (C, D, and F are considered failures) prior to entry into the program. This requirement applies to BIO 120/120L, BIO 121/121L, BIO 126, BIO 202/202L, BIO 208/208L, BIO 209/209L, BIO 302/BIO 302L, CHE 102, CHE 115/CHE 115L, CHE 120/120L, CHE 121/121L or equivalent transfer courses.
   h. Prerequisite science courses required for admission must be fewer than eight years old as of the first day of the semester in which the program begins.

Additionally:

1. The ACT is required for those transfer applicants with fewer than 24 credit hours from an accredited institution. See pre-major requirements for details.
2. Applicants whose native language is other than English must demonstrate an established level of English proficiency by taking the Internet-based TOEFL. See special admission requirements for details.
3. If a student is accepted into the nursing program, he or she must have the following coursework completed with a grade of C or higher before beginning nursing classes:
   - BIO 209/209L
   - PSY 321 -- OR -- EDU 300
   - BIO 126
   - CHE 115/115L -- OR -- CHE 120/120L and CHE 121/121L
   - Either STA 205 -- OR -- STA 212
4. A personal interview may be requested by the nursing admission/readmission committee.
5. All accepted students must pass a criminal background check before starting nursing classes.

Licensed practical nurses are eligible to apply to the B.S.N. program if they have graduated from a practical nursing program and passed the NCLEX-PN within the last four years or are actively employed as an LPN. If LPNs are accepted into the B.S.N. program, they must take an independent-study class.
with a nursing faculty member during their first semester in the nursing program. Upon successful completion of NRS 299, the following courses will be waived for LPNs: NRS 210L, NRS 215 and NRS 215P. The Evolve® Curriculum Support fee will be assessed for LPNs for every semester. LPNs are encouraged to make an appointment with an academic advisor prior to applying to the B.S.N. program.

Admitted students must:
- Submit proof of “CPR for Health Providers” certification in effect for the upcoming academic year.
- Submit immunization records and completed health forms (all records must be submitted together) before the posted deadline.
- Purchase professional liability insurance, which is paid concurrently with their tuition.
- Submit proof of health insurance coverage or sign a health insurance waiver.
- Provide own transportation to clinical agencies.
- Purchase appropriate uniforms prior to the first day of clinical.

**NKU College of Health Professions policies**

**Student criminal background check:** Healthcare agencies are charged with providing care and protecting the safety of vulnerable populations including children and the aged. Agencies used for clinical placement require students to undergo criminal background checks and may deny clinical access to those convicted of felonies and certain misdemeanors. Conviction of these offenses may result in a student’s denial of admission to, or dismissal from, the Department of Nursing and the College of Health Professions. Applicants are required to submit to criminal background checks as identified by the College of Health Professions as part of the application process. The cost of this and any subsequent screening will be borne by the student. The student is responsible for notifying the Department of Nursing and the College of Health Professions of any change in the status of this record after starting the program. Note that successful completion of a criminal background check does not ensure eligibility for certification, licensure, or future employment.

**Transfer students:** Students previously enrolled in another ACEN or CCNE-accredited program in nursing may be eligible to transfer into the nursing program at NKU. In addition to all admission requirements, the following apply to all transfer students:

1. Transfer students are considered on a space-available basis. Eligibility is determined by the nursing Admissions, Progression, Graduation Committee. Students with more than one nursing semester failure are not eligible to apply.

2. The following must be submitted: a letter from the director of the previous program attended explaining the reasons for withdrawal; official transcripts of all college work attempted; and syllabi of all nursing courses taken. Additionally, an interview may be requested by the APG committee. Students requesting advanced placement in the nursing program may be required to pass a simulated clinical performance and dosage computation examination. In addition, a written theory examination may be required.

3. At least 25 percent of the credits required for the degree must be completed at NKU.

4. The last 30 semester credit hours must be completed at NKU.

5. Students transferring to NKU after failing a nursing class at another nursing school will be dismissed from NKU’s B.S.N. program if they fail a nursing class at NKU (C or below).

**Progression:**

1. To continue in the nursing program, students must maintain a GPA of at least 2.70 and achieve a grade of C or higher in all required nursing and support courses.

2. Students withdrawing from the nursing program for any reason are requested to have an exit interview with the program director or faculty advisor.

3. Students may repeat only one semester in which one or more nursing courses were failed. Students who have a second semester with a failing grade in nursing are dismissed from the B.S.N. program and are ineligible for readmission until after four calendar years have passed from the date of the failure. A failure is considered a C or below.

4. If a didactic course has a clinical co-requisite course, both must be repeated concurrently.

5. Students are expected to progress sequentially through the nursing program. In order to be eligible to enroll in a succeeding nursing course, the student is required to meet all program requirements and academic standards.

6. Critical skills: Students are required to show ability to perform certain basic nursing skills during each semester. Failure to demonstrate continued ability to perform these skills will provide a basis for failure of the clinical component.

7. Students must concurrently take and pass nursing courses that are co-requisites.

8. The B.S.N. program must be completed in 8 semesters.

**Evolve® Curriculum Support:** All students will participate in the Evolve® Curriculum Support Program. This is a commercial program that provides additional resources for student learning. It is composed of case studies, practice tests/quizzes, and standardized testing. Completion of these will be dictated by course syllabi, and standardized test scores will contribute to final course grades in select nursing courses. A minimum of 850 is required on the HESI mid-curricular exam. Those students not achieving an 850 will be required to take the NRE 300: Remediation Seminar in the subsequent semester. A minimum score of 900 is required on the HESI RN-EXIT exam in order to graduate from the traditional B.S.N. and B.S.N. second-degree programs. A fee attached to selected courses will be assessed for this service.

**Academic leave:** If a student identifies that there are situational or personal factors that may preclude his or her academic success, he or she may request an academic leave from the B.S.N. program for a single semester after successful completion of the first nursing semester. If approved, the student will be eligible to return to his or her current placement in the curriculum and will not be required to apply for readmission to the B.S.N. program. The policy and procedures for an academic leave request are outlined in the B.S.N. student handbook, which is available on Blackboard. The student may apply for more than one academic leave; however, the leaves may not be back to back, and the student must complete the B.S.N. program within eight semesters.

**Readmission:** If a student has a failure in a nursing course, an application for readmission to the nursing program will be considered on an individual and space-available basis. Students must submit an application for readmission to the Admission, Progression, and Graduation Committee. A letter supporting the request for readmission must be attached to the application. This letter should outline strategies for success in the program. Students applying for readmission may be required to have an interview with the program director or faculty advisor. To be considered for readmission, the student must have a minimum score of 900 on the HESI RN-EXIT exam in order to graduate from the traditional B.S.N. and B.S.N. second-degree programs.

Students readmitted to the program are subject to the requirements of the catalog in effect for all nursing courses at the time of re-entry. A student dismissed from the nursing program for a
second nursing failure may reapply after four calendar years have passed since the previous nursing failure if the student meets current eligibility requirements. Students will then be considered as part of the applicant pool as a new student to begin the program from the beginning. (This is true of the B.S.N. and the A.B.S.N. Programs).

**Student advising** Upon admission to the nursing program, students are assigned to a faculty academic advisor and are required to meet with this advisor at least once each semester. Students are encouraged to maintain regular contact with their advisor so that progress and performance can be discussed and counsel provided as necessary.

**Degree Requirements: Traditional B.S.N.**

<table>
<thead>
<tr>
<th>Courses in Nursing</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 210L</td>
<td>Development of Clinical Nursing Skills</td>
</tr>
<tr>
<td>NRS 215</td>
<td>Fundamental Concepts of Professional Nursing Practice</td>
</tr>
<tr>
<td>NRS 220</td>
<td>Holistic Health Assessment of the Adult</td>
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<tr>
<td>NRS 220L</td>
<td>Holistic Health Assessment Laboratory</td>
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<tr>
<td>NRS 215P</td>
<td>Fundamentals of Professional Nursing Practicum</td>
</tr>
<tr>
<td>NRS 250</td>
<td>Introduction to Medical-Surgical Nursing</td>
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<tr>
<td>NRS 255</td>
<td>Pathopharmacological Concepts and Principles</td>
</tr>
<tr>
<td>NRS 250P</td>
<td>Introduction to Medical-Surgical Nursing Practicum</td>
</tr>
<tr>
<td>NRS 310</td>
<td>Concepts of Community and Public Health Nursing</td>
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<tr>
<td>NRS 310P</td>
<td>Concepts of Community Health Nursing Practicum</td>
</tr>
<tr>
<td>NRS 315</td>
<td>Theories and Concepts of Professional Nursing Practice</td>
</tr>
<tr>
<td>NRS 320</td>
<td>Principles of Research for Application to Professional Nursing Practice</td>
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<tr>
<td>NRS 330</td>
<td>Principles of Psychiatric and Mental Health Nursing</td>
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<tr>
<td>NRS 330P</td>
<td>Psychiatric and Mental Health Nursing Practicum</td>
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<tr>
<td>NRS 339L</td>
<td>Clinical Reasoning I</td>
</tr>
<tr>
<td>NRS 350</td>
<td>Intermediate Medical-Surgical Nursing</td>
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<tr>
<td>NRS 350P</td>
<td>Intermediate Medical-Surgical Nursing Practicum</td>
</tr>
<tr>
<td>NRS 360</td>
<td>Principles of OB and Newborn Nursing</td>
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<tr>
<td>NRS 360P</td>
<td>Principles of OB and Newborn Nursing Practicum</td>
</tr>
<tr>
<td>NRS 370</td>
<td>Legal, Ethical, and Professional Issues</td>
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<tr>
<td>NRS 415</td>
<td>Principles of Pediatric Nursing</td>
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<tr>
<td>NRS 415P</td>
<td>Pediatric Nursing Practicum</td>
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<tr>
<td>NRS 420</td>
<td>Concepts and Principles of Leadership Management</td>
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<tr>
<td>NRS 439L</td>
<td>Clinical Reasoning II</td>
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<tr>
<td>NRS 440P</td>
<td>Nursing Capstone II</td>
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<tr>
<td>NRS 450</td>
<td>Advanced Medical-Surgical Nursing</td>
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<tr>
<td>NRS 450P</td>
<td>Advanced Medical-Surgical Practicum</td>
</tr>
<tr>
<td>NRS 465P</td>
<td>Transition to the Professional Practice Role</td>
</tr>
<tr>
<td>NRS 470P</td>
<td>Nursing Capstone II</td>
</tr>
</tbody>
</table>

**Credits in Nursing** 69

<table>
<thead>
<tr>
<th>Credits in Other Disciplines</th>
<th>31</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 115/ CHE 115L</td>
<td>Physiological Chemistry with Laboratory*</td>
</tr>
<tr>
<td>BIO 202/ BIO 202L</td>
<td>Microbiology for Health Professionals and Laboratory*</td>
</tr>
<tr>
<td>PSY 100</td>
<td>Introduction to Psychology*</td>
</tr>
<tr>
<td>STA 205</td>
<td>Introduction to Statistical Methods*</td>
</tr>
<tr>
<td>STA 212</td>
<td>Statistics for Business Applications I*</td>
</tr>
<tr>
<td>PSY 321</td>
<td>Lifespan Development*</td>
</tr>
<tr>
<td>EDU 300</td>
<td>Human Growth and Development*</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 100

*These courses are prerequisites and co-requisites for other program courses. NKU graduates are required to earn 120 credit hours. Nursing graduates typically graduate with 121-124 credit hours, which includes the Foundation of Knowledge general education requirements.

**B.S.N. Second-Degree Program (Accelerated Bachelor of Science in Nursing)**

The Bachelor of Science in nursing for students who already have a bachelor’s degree provides preparation for registered nursing practice. The curriculum is composed of both didactic and clinical components. The curriculum blends scientific and humanistic theories with nursing theories to provide graduates with a foundation for professional nursing practice. Faculty members hold a doctoral or master’s degree, and many are certified within their individual areas of specialty. Many members of the faculty continue to practice in healthcare settings and participate in research and other scholarly endeavors.

The A.B.S.N. program is designed for postbaccalaureate individuals who want to make a career change. The accelerated program is fast-paced and rigorous, incorporating three years of nursing courses into 16 months. The accelerated program is designed for nonworking, full-time students who can immerse themselves in the content.

**Student advising:** All students contemplating admission to the A.B.S.N. program are encouraged to contact an advisor regarding admission requirements. Students admitted to the A.B.S.N. program are assigned an advisor and are expected to maintain close contact with their advisor throughout the program of study. It is the responsibility of the student to initiate at least one advising session each semester.

**Admission requirements:** Admission to the A.B.S.N. program is highly selective. Priority will be given to students whose academic record reflects strength in the sciences and mathematics. To be considered for admission, one must:

1. Be a graduate of an accredited college or university with a bachelor’s or higher degree, or within six months of graduation with a statement from the registrar, chair, or advisor that graduation requirements will be met prior to the start of A.B.S.N. classes.
2. Be admitted to NKU as a degree-seeking student with postbaccalaureate status without conditions.
3. Have a minimum cumulative GPA of 3.00 on a 4.00 scale for the most recent 30 credit hours of coursework. GPAs for admission to the A.B.S.N. program will be calculated using NKU and transfer coursework.
4. Complete at least two science prerequisite courses before applying.
5. Submit separate application to the Department of Nursing by February 1 for fall admission. The application is available in the nursing office in Albright Health Center 303 or online (http://healthprofessions.nku.edu/departments/nursing.html). Mail or fax the completed application to the Department of Nursing. This application is in addition to the university application.
6. Complete the following prerequisite courses with a grade of at least a C in each course. Prerequisites taken at another university are not considered completed until the course has been transferred to NKU.

**NO EXCEPTIONS**

- BIO 208, 208L, BIO 209, 209L
- CHE 115/115L -- OR -- CHE 120/120L and CHE 121/121L
- BIO 202/202L
- BIO 126
- PSY 321 -- OR -- EDU 300
- STA 205 -- OR -- STA 212
- HIN 355

1. All prerequisite science courses for admission to the program must be fewer than eight years old as of the first day of the semester in which the program is started.

2. Applicants whose native language is other than English must demonstrate an established level of English proficiency by taking the Internet-based TOEFL. See special admission requirements under Department of Nursing for additional information.

**Student criminal background check.** Healthcare agencies are charged with providing care and protecting the safety of vulnerable populations including children and the aged. Agencies used for clinical placement require students to undergo criminal background checks and may deny clinical access to those convicted of felonies and certain misdemeanors. Conviction of these offenses may result in a student’s denial of admission to, or dismissal from, the College of Health Professions. Applicants are required to submit to criminal background checks as identified by the College of Health Professions as part of the application process. The cost of this and any subsequent screening will be borne by the student. The student is responsible for notifying the College of Health Professions of any change in the status of this record after starting the program. Note that successful completion of a criminal background check does not ensure eligibility for certification, licensure, or future employment.

**Please also note:**

- Admission is provisional, based upon satisfactory completion of prerequisite courses, criminal background check, and TOEFL if applicable.
- A failure (grade of C, D, or F) in any prerequisite course or nursing course within four years of the start of the program makes an applicant ineligible for the A.B.S.N. program.
- The Kentucky Board of Nursing has regulations regarding previous convictions that must be addressed prior to the application process. Convictions must be reported when applying for licensure.

**Evolve® Curriculum Support:** All students will participate in the Evolve® Curriculum Support Program. This is a commercial program that provides additional resources for student learning. It is composed of case studies, practice tests/quizzes, and standardized testing. Completion of these will be dictated by course syllabi, and standardized test scores will contribute to final course grades in select nursing courses. A minimum score of 900 is required on the HESI RN-EXIT exam in order to graduate from the traditional B.S.N. and B.S.N. second-degree programs. A fee will be assessed in selected A.B.S.N. courses for this testing and support program.

**Progression:**

- Students admitted to the A.B.S.N. program are subject to the program requirements of the catalog in effect at the time of entry.
- Upon matriculation into the A.B.S.N. program, students must take the last 30 semester hours from NKU.
- Students are expected to progress sequentially through the nursing program. In order to be eligible to enroll in a succeeding nursing course, the student is required to meet all program requirements and academic standards.

- A grade of C or higher must be achieved in all nursing courses.
- Critical skills: Students are required to show ability to perform certain basic nursing skills during each semester. Failure to demonstrate continued ability to perform these skills will provide a basis for failure of the clinical component.
- Students must concurrently take and pass nursing courses that are co-requisites.
- Failed nursing courses (grade of C- or below) may not be repeated in the accelerated program.

**Readmission:** Students who fail a nursing course (earning a C- or below) in the accelerated program are not eligible for readmission to the accelerated program. Students may apply for admission to the traditional baccalaureate program if they meet admission criteria and will be considered on a space-available basis.

### Degree Requirements: Accelerated B.S.N.

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 210L Development of Clinical Nursing Skills</td>
<td>2</td>
</tr>
<tr>
<td>NRS 215 Fundamental Concepts of Professional Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NRS 215P Fundamental Professional Nursing Practicum</td>
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<tr>
<td>NRS 220 Holistic Health Assessment of the Adult</td>
<td>2</td>
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<td>NRS 220L Holistic Health Assessment Laboratory</td>
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<tr>
<td>NRS 250 Introduction to Medical-Surgical Nursing</td>
<td>3</td>
</tr>
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<td>NRS 250P Introduction to Medical-Surgical Nursing Practicum</td>
<td>3</td>
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<tr>
<td>NRS 255 Pathopharmacological Concepts and Principles</td>
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</tr>
<tr>
<td>NRS 310 Concepts of Community and Public Health Nursing</td>
<td>3</td>
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<tr>
<td>NRS 315 Theories and Concepts of Professional Nursing Practice</td>
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<td>NRS 320 Principles of Research for Application to Professional Nursing Practice</td>
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<td>NRS 330 Principles of Psychiatric and Mental Health Nursing</td>
<td>3</td>
</tr>
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<td>NRS 330P Psychiatric and Mental Health Nursing Practicum</td>
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<td>NRS 339L Clinical Reasoning I</td>
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<td>NRS 350 Intermediate Medical-Surgical Nursing</td>
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<td>NRS 350P Intermediate Medical-Surgical Nursing Practicum</td>
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<tr>
<td>NRS 360 Principles of OB and Newborn Nursing</td>
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</tr>
<tr>
<td>NRS 360P Principles of OB and Newborn Nursing Practicum</td>
<td>2</td>
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<tr>
<td>NRS 370 Legal, Ethical, and Professional Issues</td>
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<td>NRS 415 Principles of Pediatric Nursing</td>
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<td>NRS 415P Pediatric Nursing Practicum</td>
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<tr>
<td>NRS 420 Concepts and Principles of Leadership Management</td>
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<td>NRS 439L Clinical Reasoning II</td>
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<td>NRS 440P Nursing Capstone 1</td>
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<td>NRS 450 Advanced Medical-Surgical Nursing</td>
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<td>NRS 450P Advanced Medical-Surgical Practicum</td>
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<td>NRS 465P Transition to the Professional Practice Role</td>
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</tr>
<tr>
<td>NRS 470P Nursing Capstone 2</td>
<td>1</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 69
Department of Advanced Nursing Studies

Location: Albright Health Center 206
Telephone: 859-572-7964
Fax: 859-572-1934
Email Address: advancednursing@nku.edu
Web Address: http://healthprofessions.nku.edu/departments/advancednursing.html
Department Chair: Adrianne J. Lane
Other Key Personnel:
- R.N.-B.S.N. Program Director: Ann Keller
- Advisor: Amanda Kimler
- Academic Coordinator: Sheila Townsend
- Department Secretary: Kim Gamm, Amy Sterrett
Full-time Faculty: Annie Dollins, Cindy Foster, Ann Keller, Patricia Sunderhaus, Cheryl Swayne

Undergraduate Program:
Major:
Bachelor of Science in Nursing

Bachelor of Science for Registered Nurses (R.N. to B.S.N.)

Available exclusively in a fully-online format.
The registered nurse to Bachelor of Science in nursing (R.N. to B.S.N.) provides career mobility for the registered nurse. The coursework blends scientific and humanistic theories with nursing theories to provide graduates with a foundation for professional nursing practice. Graduates are prepared to function in primary, secondary, and tertiary care settings and in roles that are dependent, interdependent, or independent according to the level of care required. They are able to lead and influence colleagues and coworkers for the enhancement of their knowledge and skills, thereby effecting change to promote quality nursing care for clients in any health setting. The Bachelor of Science in nursing (B.S.N.) is designed to provide a foundation for higher degree programs in nursing.

Special opportunities for our students: The R.N. to B.S.N. program provides career mobility for R.N.'s who need the high flexibility that distance education can provide. Students are eligible for awards including membership in Sigma Theta Tau Rho Theta Chapter (honor society for nursing) and leadership, academic, and caring spirit awards.

You should know: The R.N. to B.S.N. is fully accredited by the Accreditation Commission for Education in Nursing.

Pre-major requirements: Students enrolled in courses at NKU preparing for admission to the online R.N. to B.S.N. program should declare as their major pre-baccalaureate nursing distance (ZNB). Upon acceptance to the nursing program, students are assigned to a faculty advisor and must declare the major of Bachelor of Science in nursing distance (ZNB).

Admission requirements: To be admitted to the program, an applicant must:
- Be fully admitted to NKU as a degree-seeking student.
- Submit a separate application (http://advancednursing.nku.edu) to the R.N. to B.S.N. program. This application is in addition to the university application.
- Submit to the Office of Admissions:
  - Official transcripts from an associate degree or diploma program in nursing.
  - Official transcripts from all postsecondary work completed.
- Possess a cumulative GPA of 2.50 on a 4.00 scale.
- Complete the following prerequisite courses with a minimum grade of C in each course.
  - One full year of English composition (ENG 101 and ENG 291).
  - One full year of anatomy and physiology with labs (BIO 208, BIO 208L, BIO 209, BIO 209L).
  - Microbiology for Health Professionals with Laboratory (BIO 202/BIO 202L).
  - Introduction to Psychology (PSY 100).
  - Lifespan Development -- OR -- Human Growth and Development (IPSY 321 -- OR -- EDU 300).
  - Introduction to Statistical Methods -- OR -- Statistics for Business Applications I (STA 205 -- OR -- STA 212).
  - Health Care Ethics -- OR -- Ethics (PHI 220 -- OR -- PHI 200).
- Hold current, unrestricted R.N. licensure. Proof of R.N. licensure in state of practice is mandatory prior to the first day of any clinical course.

NOTE: Acceptance into the nursing program is provisional pending receipt of all required paperwork, including a criminal background check and proof of unrestricted R.N. licensure.

Admitted students must:
1. Submit the following paperwork:
   a. Proof of "CPR for Health Providers" certification in effect for the upcoming academic year.
   b. Immunization records, including up to date TB and seasonal flu, and completed student health report.
   c. Proof of health insurance coverage.
   d. HIPAA and OSHA training.
2. All records must be submitted together before the posted deadline.
3. Maintain the minimum GPA required for progression (see R.N. to B.S.N. handbook).

NKU College of Health Professions policies:

Student criminal background check: Healthcare agencies are charged with providing care and protecting the safety of vulnerable populations including children and the aged. Agencies used for clinical placement require students to undergo criminal background checks and may deny clinical access to those convicted of felonies and certain misdemeanors. Conviction of these offenses may result in a student’s denial of admission to, or dismissal from, the College of Health Professions. Applicants are required to submit to criminal background checks as identified by the College of Health Professions as a part of the application process. The cost of this and any subsequent screening will be borne by the student. The student is responsible for notifying the College of Health Professions of any change in the status of this record.

Progression: To progress in the R.N. to B.S.N. nursing program, students must achieve a grade of C or higher in all required nursing and support courses. Students withdrawing from the nursing program for any reason are requested to have an exit interview with the program director or faculty advisor. Students may repeat only one semester of nursing. If a didactic course has a clinical/practica co-requisite course, both must be repeated concurrently.

You should also know: The R.N. to B.S.N. curriculum was revised effective fall 2014. The program is only offered in an online format. The application for admission and the registration process are also handled online.
Students entering the R.N. to B.S.N. program may have transfer credit hours that will satisfy some of the requirements of the program.

**Degree Requirements: R.N. to B.S.N. program**

<table>
<thead>
<tr>
<th>Courses in Nursing</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRP 316L Evaluation of Clinical Performance</td>
<td>8</td>
</tr>
<tr>
<td>NRP 317L Decision Making in Nursing</td>
<td>7</td>
</tr>
<tr>
<td>NRP 470 Role Transformation</td>
<td>3</td>
</tr>
<tr>
<td>NRP 471 Concepts of Professional Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NRP 472 Nursing Research and Evidence Based Practice</td>
<td>3</td>
</tr>
<tr>
<td>NRP 473 Quality Care for Vulnerable Populations</td>
<td>3</td>
</tr>
<tr>
<td>NRP 474 Models of Care Delivery</td>
<td>3</td>
</tr>
<tr>
<td>HIN 355 Introduction to Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>NRP 475 Population Centered Health in the Community</td>
<td>3</td>
</tr>
<tr>
<td>NRP 476 Impact of Genetics/Genomics on Health</td>
<td>2</td>
</tr>
<tr>
<td>NRP 477 Leadership in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NRP 478 Nursing Leadership Practicum</td>
<td>4</td>
</tr>
</tbody>
</table>

**Credits in Nursing** 45

<table>
<thead>
<tr>
<th>Courses in Other Disciplines</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 College Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 291 Advanced College Writing</td>
<td>3</td>
</tr>
<tr>
<td>Gen Ed Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>Gen Ed Cultural Pluralism</td>
<td>3</td>
</tr>
<tr>
<td>Gen Ed Individual and Society</td>
<td>3</td>
</tr>
<tr>
<td>Gen Ed Culture and Creativity</td>
<td>6</td>
</tr>
<tr>
<td>BIO 208/ BIO 208L Human Anatomy and Physiology I with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIO 209/ BIO 209L Human Anatomy and Physiology II with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIO 202/ BIO 202L Microbiology for Health Professionals with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PSY 100 Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>STA 205 Introduction to Statistical Methods -- OR --</td>
<td>3</td>
</tr>
<tr>
<td>STA 212 Statistics for Business Applications I</td>
<td></td>
</tr>
<tr>
<td>PSY 321 Lifespan Development -- OR --</td>
<td></td>
</tr>
<tr>
<td>EDU 300 Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>PHI 200 Ethics -- OR --</td>
<td>3</td>
</tr>
<tr>
<td>PHI 220 Healthcare Ethics</td>
<td></td>
</tr>
</tbody>
</table>

**Credits in Other Disciplines** 48

**TOTAL CREDITS** 93
The College of Informatics offers a 21st-century perspective on the disciplines that have information at their core. We are home to the departments of communication, computer science, and business informatics. Through our outreach arm, the Center for Applied Informatics, our students have the opportunity to work with companies and other organizations on cutting-edge projects.

The college offers ten bachelor’s degrees, five master’s degrees, and a variety of certificates, both graduate and undergraduate. Several of our programs are available in a variety of forms, including traditional face-to-face, fully online, and hybrid formats. Many of them accommodate working professionals who are only available for coursework in the evening and on weekends.

We have energetic faculty who have a passion for teaching, who are dedicated researchers, and who have a strong sense of civic engagement. Our advising center has a staff of eight to help students advance smoothly through their course of studies here.

Our home is NKU’s state-of-the-art informatics center, Griffin Hall. In this open and social space, students have the opportunity to use the newest technologies and collaborate in innovative ways.

Above all, we embrace a culture of silo-breaking transdisciplinarity. In other words, the College of Informatics is not an island. We work together with all the other colleges on campus to advance the full range of NKU’s mission. Informatics is networked into almost anything you can imagine, and we invite everyone to connect to us and explore.

**College Advising Center**

**Location:** Griffin Hall 404 A-F  
**Telephone:** 859-572-7610  
**Fax:** 859-572-6176  
**Email Address:** coiadvising@nku.edu  
**Web Address:** http://informatics.nku.edu/advising-center.html  
**Director:** Rees Storm  
**Other Key Personnel:**  
Assistant Director: Rebecca Walker  
Academic Advisors:

Jeff Fox  
Rebekah Richardson  
Rebecca Walker  
Jenny Wagner  
Lynn Warner

It is the mission of the COI advising office to advise, teach, assist, and empower you. Our advisors accomplish this by assisting you in selecting courses for your desired major, ultimately enabling you to successfully complete your degree. More importantly, our advisors are trained to listen to your concerns in an open and caring way.

There is a lot of information available on our website, but keep in mind that as careers change, so do their degree requirements. Therefore, while many of your questions may be answered after viewing the contents of our site, we strongly recommend that you always consult an advisor at least once a semester with your specific questions.

**Departments**

- Business Informatics  
- Communication  
- Computer Science

**Accreditations**

Business Informatics is accredited by AACSBI-International, the Association to Advance Collegiate Schools of Business.

**Center**

**The Center for Applied Informatics**

**Location:** Griffin Hall 330  
**Telephone:** 859-572-7610  
**Fax:** 859-572-6176  
**Email Address:** cai@nku.edu  
**Web Address:** http://cai.nku.edu  
**Director:** Tim Ferguson

The Center for Applied Informatics provides students with extensive access to internships, cooperatives, and experiential learning in a real-world environment. Via CAI, the university directly contributes to the development of the commonwealth and tri-state area by connecting the best informatics students, professional staff, and awarding-winning faculty, versed in the latest research and industry best practices, with businesses and organizations seeking expertise. This collaboration forms the building blocks of student academic success and business innovation both locally and worldwide. At any given time, our students, faculty, and staff are engaging a variety of applied research projects, composed of the communicative, technical, and creative elements that are informatics.
Department of Business Informatics

**Location**: Griffin Hall 400  
**Telephone**: 859-572-6366  
**Fax**: 859-572-5398  
**Email Address**: bis@nk.edu  
**Web Address**: http://bis.nku.edu  
**Department Chair**: Frank Braun

**Other Key Personnel**:
- MBI Program Director: Teuta Cata  
- MBI Program Coordinators: Pam Atkinson, Kevin Gallagher  
- Department Coordinator: Marilyn McGinley  
- Academic Advisor: COI Advising Center  
- Library Informatics Program Coordinator: Mary Chesnut  
- Full-Time Faculty: Kalyani Ankem, Pam Atkinson, Frank Braun, Tony Burk, Teuta Cata, Mary Chesnut, Kevin Gallagher, Samuel Goh, Jerry Gonnella, Jim Hughes, David Manning, Ben Martz, Vijay Raghavan, Joe Rubleske, Toru Sakaguchi, Xiaoni Zhang

**Undergraduate Programs**:
- **Majors**: Bachelor of Science  
- Business Informatics  
- Library Informatics  
- **Minor**: Business Informatics  
- Health Informatics  
- **Certificates**:  
  - Business Informatics (Undergraduate Certificate)  
  - Information Systems Development (Postbaccalaureate Certificate)  
  - Information Systems Management (Postbaccalaureate Certificate)

**Thinking about the discipline**: Informatics is the study of information technology in a context. At the undergraduate level, the business informatics department offers three complementary contexts for the study and application of information technology: business, healthcare, and library science. These programs focus on the broad information systems aspect of business theory and practice. Students will develop skills in:

- Automating business processes such as project management and workflow analysis.
- Managing information functions such as software analysis and design and databases.
- Quantitative analysis and decision making such as developing dashboards and business intelligence.

On the edge of a digital revolution, the world of business is relying more and more on technology for business processing, problem solving, and project management. NKU’s Department of Business Informatics will prepare students to enter the marketplace with the competitive edge they will need to capture top jobs and start their careers in business, government institutions, educational organizations, healthcare facilities, and other information-based organizations.

Systems careers (for example, business analysts) are projected to be some of the fastest-growing careers through 2018.

**Special opportunities for our students**: Internships and co-ops may be used as electives in business informatics programs. To better match students with opportunities brought to us by employers, the department has in place a new system within the College of Informatics. To get started, students should complete a profile (https://www.myinterface.com/nku/student).

**Special admission requirements**: The business informatics degree is AACSB-accredited. Therefore, students desiring to major in business informatics must meet selective admission requirements co-established with the Haile/U.S. Bank College of Business. Some of the selective admission courses may fulfill requirements in several mandatory categories: general studies requirements, requirements for the major in business informatics, and requirements for the minor in business administration. The selective admission requirements for the major in information systems can be met by completing the 10 courses listed in the “Degree Requirements: B.S. - Business Informatics” table and maintaining a minimum GPA of 2.50.

**Special graduation requirements**: The Bachelor of Science in business informatics requires completion of the minor in business administration.

**Business Informatics Majors**

**Bachelor of Science with a major in Business Informatics and the required minor in Business Administration**

Available in both traditional and fully-online formats.

Business informatics prepares students for information systems careers in business computing, including work as business analysts, applications programmers, programmer/analysts, systems analysts, systems designers, database and data communication specialists, computer consultants, and other professional-level occupations involving analysis, design, development, and management of computer-based information systems. The program combines technical skills, analytical techniques, business knowledge, and a systems perspective for integrating the computer within transaction processing, management information, and decision-support systems found in businesses today. The Bachelor of Science in business informatics can be completed in the Program for Adult-Centered Education format, as well as online.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

**Degree Requirements: B.S. – Business Informatics**

<table>
<thead>
<tr>
<th>Selective Admission Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 College Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAT 114 Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Prequisite: MAT 109 or ACT &gt;23</td>
<td></td>
</tr>
<tr>
<td>CMST 101 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>ACC 200 Principles of Accounting I - Financial*</td>
<td>3</td>
</tr>
<tr>
<td>Prequisite: BIS 101 and a college-level mathematics class</td>
<td></td>
</tr>
<tr>
<td>ACC 201 Principles of Accounting II - Managerial*</td>
<td>3</td>
</tr>
<tr>
<td>BUS 230 Legal Environment*</td>
<td>3</td>
</tr>
<tr>
<td>ECO 200 Principles of Macroeconomics*</td>
<td>3</td>
</tr>
<tr>
<td>ECO 201 Principles of Microeconomics*</td>
<td>3</td>
</tr>
<tr>
<td>ENG 291 Advanced College Writing</td>
<td>3</td>
</tr>
<tr>
<td>STA 212 Statistics for Business Applications I</td>
<td>3</td>
</tr>
</tbody>
</table>

| Selective Admission Credits  | 30 |

**Courses in Business**

| MAT 109 Algebra for College Students | 3 |
| Select one course from the following: |
| BIS 380 Quantitative Analysis with Excel |
Bachelor of Science with a major in Library Informatics
Available exclusively in a fully-online format.
By completing a bachelor's degree in library informatics a student will be prepared to work in the expanding career fields of information evaluation and management. Professional positions are available in a wide variety of settings: libraries, corporate information centers, research divisions, government agencies, public service institutions, and more.

Courses in this program focus on three broad areas of expertise for information specialists:

- **Organizing information**: Through coursework, students will learn to use technology, identification schemes, and classification models to manage information more effectively. Examples of specific course topics include the subject classification systems, meta-data programs, information policy, information entrepreneurship, preservation of original sources, and the unique organizational demands of multiple media materials.

- **Accessing information**: Coursework will guide students in the development of effective and efficient information retrieval and will build skills to devise effective search strategies for a wide variety of database structures and search engine protocols. Examples of specific course topics include the use of tertiary reference guides to streamline information seeking; publication and dissemination cycles; the structure of information searches to retrieve specific information characteristics; cost-benefit analyses of information searches; and ethical and legal issues in using information.

- **Assessing information**: Course content centers on evaluating usability, reliability, and sufficiency of information sources. Specific study would include applying critical thinking skills to the analysis of resources; matching information sources to specific audience needs; judging the relative value of various information packages; and evaluating decision-making models using data and opinion sources.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

### Degree Requirements: B.S. – Library Informatics

#### Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
</table>
| MAT 112  | Applied Calculus | 3
| MGT 300  | Behavior in Organizations: Understanding Organizational Life | 3
| MGT 490  | Business Policy | 3
| BUS 330  | Ethics: Managerial Decision Making | 3
| ECO 305  | International Context for Business | 3
| BIS 300  | Management Information Systems* | 3
| FIN 305  | Principles of Finance* | 3
| MGT 305  | Operations Management in Business* | 3
| MKT 205  | Principles of Marketing* | 3

**Credits for Business** 30

Select three courses from the following:

BIS 357 Enterprise Resource Planning Using SAP
BIS 382 Principles of Information Security
Prerequisite: BIS 300
BIS 384 Business Analytics
BIS 394 Topics: Information Systems
BIS 396 Applied Business Informatics
BIS 402 Programming for E-Business
BIS 357 Enterprise Resource Planning Using SAP (capstone) 9
BIS 420 Business Intelligence and Enterprise Applications
BIS 430 Workflow Design and Management
BIS 435 Database Management Systems
BIS 440 Global Information Technology Management
BIS 494 Topics: Information Systems

**Credits in Business Informatics** 33

**TOTAL CREDITS** 93

*These courses complete the required minor in business administration.

### Business Informatics Minors

#### Minor in Business Informatics

The department offers a minor in business informatics that consists of 21 credit hours (9 credits required, 3 credits of electives at the 100 level and above, and 9 credit hours of electives at the 300/400/500 level).

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

#### Requirements for Minor: Business Informatics

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
</table>
| INF 110  | Business Programming | 3
| INF 282  | Introduction to Databases | 3

**TOTAL CREDITS** 45

Students are responsible for meeting all prerequisites set forth by the department offering the course.
Minor in Health Informatics
The department offers a minor in health informatics that consists of 21 credit hours. After completing the minor, the successful student will have competence in the underlying skills necessary to become a health informaticist. Students will be able to demonstrate knowledge in the health informatics field and in information systems as it relates to healthcare. Students will be able to analyze, synthesize, and problem solve using a variety of techniques and tools.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for minor: Health Informatics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INF 282</td>
<td>Introduction to Databases</td>
<td>3</td>
</tr>
<tr>
<td>HIN 355</td>
<td>Introduction to Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HIN 356</td>
<td>Health Information Management</td>
<td>3</td>
</tr>
<tr>
<td>BIS 300</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BIS 330</td>
<td>IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>BIS 380</td>
<td>Quantitative Analysis with Excel</td>
<td>3</td>
</tr>
<tr>
<td>BIS 382</td>
<td>Principles of Information Security</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL CREDITS 21
Department of Communication

Location: Griffin Hall 400
Telephone: 859-572-5435
Fax: 859-572-6187
Email Address: communication@nk.edu
Web Address: http://informatics.nku.edu/departments/communication.html
Department Chair: Zachary Hart

Other Key Personnel:
- Communication Studies Program Director: Stephen Yungbluth
- Electronic Media & Broadcasting Program Director: Christopher Strobel
- Journalism Program Director: Brad Scharlott
- Media Informatics Program Director: Renee Human
- Public Relations Program Director: Gregory De Blasio
- Graduate Studies Director: Andrea Lambert-South
- General Education Director: Yasse Kwahara
- Student Media Adviser: Michele Day
- Academic Coordinator: Randy Little
- Academic Specialist: Christa Witt
- Academic Advising: COI Advising Center


Undergraduate Programs:

Majors:
- Bachelor of Arts
  - Communication Studies
  - Electronic Media and Broadcasting
  - Journalism
  - Media Informatics
  - Public Relations

Minors:
- Communication Studies
- Electronic Media and Broadcasting
- Journalism
- Media Informatics
- Popular Culture Studies (see interdisciplinary section of catalog)

Thinking about the discipline: The Department of Communication fosters an integrated approach to the study and practice of communication and emphasizes the fundamental role communication plays in virtually all human endeavors.

Students majoring in communication studies, electronic media and broadcasting, journalism, media informatics, or public relations will take courses that teach basic and advanced skills in computer-mediated, digital, spoken, visual, and written communication. They also promote an understanding of communication principles and theories as well as an awareness of the personal, social, psychological, and cultural impacts of communication. The department's courses also emphasize situational analysis, issue identification, problem solving, message construction, storytelling, and effective presentation.

Communication students aspire to become professional communicators in fields such as broadcast, online, and print journalism; digital, animated, audio, and video storytelling; organizational communication; public relations; and social informatics.

Special opportunities for our students: The communication department provides numerous opportunities for practical and applied experiences through an active internship program, projects and practicum courses, and student organizations. The department is home to NorseMedia, which creates media for NKU's web presence and television station, as well as Norse PROvisions, a student-run public relations firm. In addition, the NKU student newspaper (The Northerner) and online radio station (Norse Code Radio) are housed in the department. Students also have the opportunity to join a variety of discipline-specific student organizations such as the Communication Club, MINjas, Norse Film Society, Public Relations Student Society of America, and Society for Professional Journalists.

Communication Majors

Bachelor of Arts with a major in Communication Studies Available in both traditional and fully-online formats.

The communication studies program provides: (1) a strong general background in practice, theory, history, and criticism of communicative acts; (2) opportunities for students to improve their communication skills; (3) a variety of courses to enrich the programs of students in other disciplines; (4) training for students who plan to enter professional fields such as public relations, human resources, sales, training/development, law, ministry, teaching, business, and politics; and (5) a background for graduate study in communication studies or related fields.

Students majoring in communication studies must complete 39 credit hours of study as outlined below, earn a grade of C or better in each course for the major or a GPA of 2.50 overall in courses for the major, and take "CMST 101: Public Speaking" or "CMST 110: Introduction to Communication Studies" for the oral communication requirement of their general education program.

"CMST 101: Public Speaking" and "CMST 110: Introduction to Communication Studies" cannot be used for elective credit in the major.

Degree Requirements: B.A. – Communication Studies

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 220</td>
<td>Interpersonal Communication</td>
</tr>
<tr>
<td>CMST 230</td>
<td>Small-Group Communication</td>
</tr>
<tr>
<td>CMST 300</td>
<td>Research Methods in Communication Studies</td>
</tr>
<tr>
<td>CMST 303</td>
<td>Organizational Communication</td>
</tr>
<tr>
<td>CMST 310</td>
<td>Argumentation</td>
</tr>
<tr>
<td>CMST 340</td>
<td>Strategies of Persuasion</td>
</tr>
<tr>
<td>CMST 410</td>
<td>Rhetorical Theories</td>
</tr>
<tr>
<td>CMST 355</td>
<td>Culture and Communication</td>
</tr>
<tr>
<td>CMST 370</td>
<td>Advanced Public Speaking</td>
</tr>
<tr>
<td>CMST 430</td>
<td>Communication Theories</td>
</tr>
<tr>
<td>Select two 200/300/400-level CMST courses</td>
<td>6</td>
</tr>
<tr>
<td>Select one CMST, EMB, JOU, MIN, POP, PRE, or 400/500-level COM course not used as a general education course.</td>
<td>3</td>
</tr>
</tbody>
</table>

Professional Skills Courses – select two courses from the following:

- ENG 340 Business Writing
- ENG 347 Technical Writing
- ENG 349 Web Writing for the Professions
- JOU 220 News Writing
Bachelor of Arts with a major in Electronic Media and Broadcasting

The electronic media and broadcasting program fully embraces the department’s academic-and-applied mantra by developing our students’ skills as electronic storytellers. Students will build upon the theoretical and aesthetic foundations that define effective media, learning to write and create stories using media from radio to corporate video to documentaries to live television to digital cinema and more. Successful students will graduate with the conceptual proficiencies and practical skills to build a body of work, showcasing individual achievement and preparation for a mediated future.

Students majoring in electronic media and broadcasting must complete 51-57 credit hours of study as listed below, earn a grade of C or better in each course for the major or a GPA of 2.50 overall in courses for the major, take “CMST 101: Public Speaking” or “CMST 110: Introduction to Communication Studies” for the oral communication requirement of their general education program, and take “EMB 100: Media Literacy” for the culture and creativity requirement of their general education program.

Degree Requirements: B.A. – Electronic Media and Broadcasting

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMB 110 Introduction to Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>EMB 140 Introduction to Media Aesthetics</td>
<td>3</td>
</tr>
<tr>
<td>INF 186 Media Web Coding</td>
<td>3</td>
</tr>
<tr>
<td>EMB 210 Single Camera Production</td>
<td>3</td>
</tr>
<tr>
<td>EMB 215 Introduction to Audio Production</td>
<td>3</td>
</tr>
<tr>
<td>EMB 260 Writing for the Media</td>
<td>3</td>
</tr>
<tr>
<td>EMB 396 Internship: Electronic Media and Broadcasting -- OR -- Projects</td>
<td>3</td>
</tr>
<tr>
<td>EMB 400 Media Criticism</td>
<td>3</td>
</tr>
<tr>
<td>EMB 435 Advanced Media Studies</td>
<td>3</td>
</tr>
<tr>
<td>CMST 220 Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>CMST 303 Organizational Communication</td>
<td>3</td>
</tr>
<tr>
<td>EMB 380 Documentary Theory and History</td>
<td>3</td>
</tr>
<tr>
<td>PSY 304 Consumer Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EMB 305 Multicamera Video Production</td>
<td>3</td>
</tr>
<tr>
<td>EMB 310 Advanced News Production</td>
<td>3</td>
</tr>
<tr>
<td>EMB 320 Multitrack Audio Mixing</td>
<td>3</td>
</tr>
<tr>
<td>EMB 421 Advanced Narrative Production</td>
<td>3</td>
</tr>
<tr>
<td>EMB 422 Advanced Digital Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>EMB 423 Documentary Production</td>
<td>3</td>
</tr>
<tr>
<td>EMB 425 Studio 89</td>
<td>3</td>
</tr>
<tr>
<td>EMB 450 Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>EMB 460 Producing Seminar</td>
<td>3</td>
</tr>
<tr>
<td>JOU 110 Introduction to Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>JOU 220 News Writing</td>
<td>3</td>
</tr>
<tr>
<td>JOU 230 News Reporting and Writing</td>
<td>3</td>
</tr>
<tr>
<td>JOU 296 News Media Workshop</td>
<td>3</td>
</tr>
<tr>
<td>JOU 346 Copy Editing and Design</td>
<td>3</td>
</tr>
<tr>
<td>JOU 397 Advanced News Media Workshop</td>
<td>3</td>
</tr>
<tr>
<td>JOU 450 Media Skills</td>
<td>3</td>
</tr>
<tr>
<td>JOU 485 Mass Communication Law</td>
<td>3</td>
</tr>
<tr>
<td>JOU 485 Mass Communication Law</td>
<td>3</td>
</tr>
<tr>
<td>JOU 440 Media Ethics</td>
<td>3</td>
</tr>
<tr>
<td>LIN 405 Intellectual Property and Information Rights</td>
<td>3</td>
</tr>
<tr>
<td>Select one 300- or 400-level College of Informatics course (BIS, CIT, CMST, CSC, EMB, INF, JOU, LIN, MIN, POP, or PRE)</td>
<td>3</td>
</tr>
</tbody>
</table>

With consultation of advisor, select three courses focusing upon international study. Possible courses include the following:

- CMST 305 Media Law
- CMST 310 Multicultural Communication
- CMST 321 Organizational Communication
- CMST 410 International Law
- CMST 420 Digital Publishing
- CMST 430 International Popular Culture
- CMST 440 Mass Communication Theory
- CMST 450 Media Ethics
- CMST 460 International Popular Culture
- CMST 470 International Journalism Studies
- CMST 480 International Popular Culture
- CMST 490 International Popular Culture

Bachelor of Arts with a major in Journalism

Journalists will always provide the news that people need by finding out what is happening in their neighborhoods, their cities, their states, and their nation and by informing citizens about items they need to know. Students who study journalism learn how to write well and quickly. They learn how to do research and analyze what they find. They learn how to ask the right questions, find the right documents, and communicate what they’ve discovered in an engaging way. Changing technology has opened opportunities for journalists such as blogging, editing, and shooting video and photos for newspapers, radio, television, and online news organizations. They also find work in related fields, such as public relations and advertising. Many journalism majors also go on to graduate school or law school.

Students majoring in journalism must complete 39 credit hours of study as outlined below, earn a grade of C or better in each course for the major or a GPA of 2.50 overall in courses for the major, and take “CMST 101: Public Speaking” or “CMST 110: Introduction to Communication Studies” for the oral communication requirement of their general education program.

Students are strongly encouraged not to use “JOU 110: Introduction to Mass Communication” to fulfill a general education requirement.

Degree Requirements: B.A. – Journalism

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOU 110 Introduction to Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>JOU 220 News Writing</td>
<td>3</td>
</tr>
<tr>
<td>JOU 230 News Reporting and Writing</td>
<td>3</td>
</tr>
<tr>
<td>JOU 296 News Media Workshop</td>
<td>3</td>
</tr>
<tr>
<td>JOU 346 Copy Editing and Design</td>
<td>3</td>
</tr>
<tr>
<td>JOU 397 Advanced News Media Workshop</td>
<td>3</td>
</tr>
<tr>
<td>JOU 450 Media Skills</td>
<td>3</td>
</tr>
<tr>
<td>JOU 485 Mass Communication Law</td>
<td>3</td>
</tr>
<tr>
<td>JOU 485 Mass Communication Law</td>
<td>3</td>
</tr>
<tr>
<td>JOU 440 Media Ethics</td>
<td>3</td>
</tr>
<tr>
<td>LIN 405 Intellectual Property and Information Rights</td>
<td>3</td>
</tr>
<tr>
<td>Select four courses from the following: CEP 300 Cooperative Education</td>
<td>3</td>
</tr>
<tr>
<td>JOU 321 Digital Publishing</td>
<td>3</td>
</tr>
<tr>
<td>JOU 325 Photojournalism</td>
<td>3</td>
</tr>
<tr>
<td>JOU 330 Public Affairs Reporting</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL CREDITS 39

TOTAL CREDITS 51-57
Bachelor of Arts with a major in Media Informatics

The media informatics program can be found at the intersection of communication, arts, and technology, culminating in the relatively new field of digital media. Numerous exciting opportunities in multimedia development and production have emerged in the new millennium, stemming from advances in several sectors including the web, mobile communications, video gaming, and animated entertainment. Students seeking a career in one of these newly evolving industries will need a basis in both theory and practice in multimedia design, development, and deployment.

The media informatics curriculum will prepare students to create and deliver content with the end goal of developing engaging and effective interactive storytelling.

Students majoring in media informatics must complete 45 credit hours of study as outlined below, earn a grade of C or better in each course for the major or a GPA of 2.5 overall in courses for the major, and take "CMST 101: Public Speaking" or "CMST 110: Introduction to Communication Studies" for the oral communication requirement of their general education program.

In addition, they are required to take "EMB 100: Media Literacy" or "JOU 110: Introduction to Mass Communication" to fulfill their culture and creativity or individual and society requirement of their general education program.

Degree Requirements: B.A. – Media Informatics

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMB 140 Introduction to Media Aesthetics</td>
<td>3</td>
</tr>
<tr>
<td>INF 120 Elementary Programming</td>
<td>3</td>
</tr>
<tr>
<td>INF 186 Media Web Coding</td>
<td>3</td>
</tr>
<tr>
<td>MIN 221 Visual Fundamentals for Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>MIN 240 Introduction to Interactive Media</td>
<td>3</td>
</tr>
<tr>
<td>MIN 252 Nonlinear Interactive Storytelling</td>
<td>3</td>
</tr>
<tr>
<td>MIN 345 Introduction to 3D Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MIN 352 Digital Media Projects</td>
<td>3</td>
</tr>
<tr>
<td>MIN 375 Impact of Computer Games and Virtual Worlds</td>
<td>3</td>
</tr>
<tr>
<td>MIN 420 Business of Media Informatics -- OR --</td>
<td>3</td>
</tr>
<tr>
<td>JOU 440 Media Ethics</td>
<td>3</td>
</tr>
<tr>
<td>MIN 452 Advanced Digital Media Projects -- OR --</td>
<td>3</td>
</tr>
<tr>
<td>MIN 396 Internship: Media Informatics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three courses from the following. Courses may come from different categories.

Web/Mobile

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 260 Object-Oriented Programming I</td>
<td></td>
</tr>
<tr>
<td>INF 282 Introduction to Databases</td>
<td></td>
</tr>
<tr>
<td>INF 284 Introduction to Networks and Data Communication</td>
<td></td>
</tr>
<tr>
<td>INF 286 Introduction to Web Development</td>
<td></td>
</tr>
<tr>
<td>MIN 381 Computer-Mediated Communication</td>
<td></td>
</tr>
<tr>
<td>MIN 394 Topics in New Media Art</td>
<td></td>
</tr>
<tr>
<td>MIN 496 Senior Practicum</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL CREDITS 36

Bachelor of Arts with a major in Public Relations

Students electing to major in public relations will enter a program of interdisciplinary study leading to career opportunities within organizations and PR firms. The major has an academic and applied orientation where students learn principles, skills, and practices that prepare them for entry to mid-level positions in public relations. Students take courses in public relations, communication studies, journalism, and electronic media and broadcasting. Skills emphasized in these courses are research, strategic planning, writing, presenting, analyzing, and creating.

Students majoring in public relations must complete 42 credit hours of study as outlined below, earn a grade of C or better or a GPA of 2.50 in courses for their major, and take "CMST 101: Public Speaking" or "CMST 110: Introduction to Communication Studies" for the oral communication requirement of their general education program.

Students are strongly encouraged not to use JOU 110 or EMB 100 to fulfill both the major and general education requirements.

Degree Requirements: B.A. – Public Relations

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOU 110 Introduction to Mass Communication -- OR --</td>
<td>3</td>
</tr>
<tr>
<td>EMB 100 Media Literacy</td>
<td>3</td>
</tr>
<tr>
<td>JOU 220 News Writing</td>
<td>3</td>
</tr>
<tr>
<td>CMST 220 Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>CMST 303 Organizational Communication</td>
<td>3</td>
</tr>
<tr>
<td>PRE 375 Principles of Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>JOU 485 Mass Communication Law</td>
<td>3</td>
</tr>
<tr>
<td>PRE 400 Public Relations Planning and Account Management</td>
<td>3</td>
</tr>
<tr>
<td>CMST 340 Strategies of Persuasion -- OR --</td>
<td>3</td>
</tr>
<tr>
<td>JOU 370 Principles of Advertising</td>
<td></td>
</tr>
<tr>
<td>PRE 376 Public Relations Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from the following:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOU 321 Digital Publishing</td>
<td></td>
</tr>
<tr>
<td>PRE 410 Electronic Public Relations</td>
<td></td>
</tr>
<tr>
<td>CMST 370 Advanced Public Speaking</td>
<td></td>
</tr>
<tr>
<td>PRE 385 Public Relations Research Methods -- OR --</td>
<td>3</td>
</tr>
<tr>
<td>JOU 492 Mass Communication Research Methods</td>
<td></td>
</tr>
<tr>
<td>CMST 300 Research Methods in Communication Studies</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL CREDITS 45
Communication Minors

Minor in Communication Studies
The minor in communication studies requires 21 credit hours including “CMST 220: Interpersonal Communication” and six CMST courses. “CMST 101: Public Speaking” and “CMST 110: Introduction to Communication Studies,” which can be used for general education credit, cannot be used for the minor.

CMST minors must earn a grade of C or above or a GPA of at least 2.50 or above in all courses for the minor. They also must take “CMST 101: Public Speaking” or “CMST 110: Introduction to Communication Studies” to fulfill their oral communication general education requirement.

Minor in Electronic Media and Broadcasting
EMB minors must earn a grade of C or above or a GPA of at least 2.50 or above in all courses for the minor.

Minor in Journalism
JOU minors must earn a grade of C or above or a GPA of at least 2.50 or above in all courses for the minor.

Minor in Media Informatics
MIN minors must earn a grade of C or above or a GPA of at least 2.50 or above in all courses for the minor.

---

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRE 377</td>
<td>Public Relations Case Studies and Campaigns</td>
<td>3</td>
</tr>
<tr>
<td>PRE 394</td>
<td>Topics in Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>Select one 300/400-level elective in CMST, EMB, JOU, MIN, or POP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRE 396</td>
<td>Public Relations Internship</td>
<td>3</td>
</tr>
<tr>
<td>PRE 499</td>
<td>Independent Study in Public Relations</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 42**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRE 396</td>
<td>Public Relations Internship</td>
<td>3</td>
</tr>
<tr>
<td>PRE 499</td>
<td>Independent Study in Public Relations</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 42**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMB 110</td>
<td>Introduction to Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>EMB 140</td>
<td>Introduction to Media Aesthetics</td>
<td>3</td>
</tr>
<tr>
<td>INF 186</td>
<td>Media Web Coding</td>
<td>3</td>
</tr>
<tr>
<td>EMB 210</td>
<td>Single Camera Production</td>
<td>3</td>
</tr>
<tr>
<td>EMB 215</td>
<td>Introduction to Audio Production</td>
<td>3</td>
</tr>
<tr>
<td>Select two 300/400-level EMB courses</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 21**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOU 110</td>
<td>Introduction to Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>JOU 220</td>
<td>News Writing</td>
<td>3</td>
</tr>
<tr>
<td>JOU 230</td>
<td>News Reporting and Writing</td>
<td>3</td>
</tr>
<tr>
<td>JOU 485</td>
<td>Mass Communication Law</td>
<td>3</td>
</tr>
<tr>
<td>JOU 440</td>
<td>Media Ethics</td>
<td>3</td>
</tr>
<tr>
<td>Select two 300/400-level JOU courses</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 21**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INF 186</td>
<td>Media Web Coding</td>
<td>3</td>
</tr>
<tr>
<td>MIN 221</td>
<td>Visual Fundamentals for Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>MIN 240</td>
<td>Introduction to Interactive Media</td>
<td>3</td>
</tr>
<tr>
<td>MIN 345</td>
<td>Introduction to 3D Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MIN 352</td>
<td>Digital Media Projects</td>
<td>3</td>
</tr>
<tr>
<td>Select two courses from the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>MIN 340</td>
<td>Media Scripting for Interactivity</td>
<td></td>
</tr>
<tr>
<td>MIN 381</td>
<td>Computer-Mediated Communication</td>
<td></td>
</tr>
<tr>
<td>MIN 375</td>
<td>Impact of Computer Games and Virtual Worlds</td>
<td></td>
</tr>
<tr>
<td>MIN 440</td>
<td>Advanced Media Interactivity</td>
<td></td>
</tr>
<tr>
<td>MIN 445</td>
<td>Intermediate 3D Modeling and Animation</td>
<td></td>
</tr>
<tr>
<td>MIN 452</td>
<td>Advanced Digital Media Projects</td>
<td></td>
</tr>
<tr>
<td>MIN 475</td>
<td>Advanced 3D Animation and Gaming</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 21**
Department of Computer Science

Location: Griffin Hall 400
Telephone: 859-572-6930
Web Address: http://cs.nku.edu
Undergraduate Advising Information: http://informatics.nku.edu/advising-center.html
Department Chair: James McGuffee

Other Key Personnel:
- Undergraduate Curriculum Director: Richard Fox
- Program Director for Master of Science in Computer Information Technology: Marius Truta
- Program Director for Master of Science in Computer Science: Wei Hao
- Department Coordinator: A.J. Miller

Full-Time Faculty: Alina Campan, Scot Cunningham, Maureen Doyle, Richard Fox, Charles Frank, Wei Hao, Yi Hu, Qi Li, Gary Newell, Teresa Riley, Marius Truta, James Walden, Hongmei Wang, Jeff Ward, Gail Wells, Jiawei Yuan, Kazi Zunnurhain

Undergraduate Programs:

Majors:
- Bachelor of Science
  - Computer Information Technology
  - Database/Web Track
  - Network/Security Track
  - Computer Science
  - Data Science

Minors:
- Computer Information Technology
- Computer Forensics
- Computer Science
- Information Security

Undergraduate Certificates:
- Cybersecurity
- Geographic Information Systems (GIS) (see interdisciplinary section of catalog)
- Information Technology
- Software Development

Thinking about the discipline: By majoring in one of the computing fields, a student gets a behind-the-scenes look at the digital world, moving from being a user of information technology to being a creator and/or administrator. Students with degrees in computer science often become software engineers; students with degrees in computer information technology often run large networks or complex websites; students with degrees in data science often use software to model and visualize information and apply in appropriate ways.

These fields are not only exciting but are in great demand. The Bureau of Labor Statistics expects software engineering to experience "much faster than average growth" through 2022, and it reports that network systems and data communications analyst is the second fastest growing job in the United States. Much of this growth is driven by interest in mobile application development and cyber security, two key areas featured in NKU's computing programs. The demand for data science graduates is expected to grow even faster. McKinsey & Co. forecasts that the United States will face a shortage of 140,000 to 190,000 people with data science skills by 2018.

Special opportunities for our students: Students in the computing majors have many opportunities to engage with projects and activities outside the classroom. Each fall, NKU sends teams of computer science majors to the regional Association for Computing Machinery programming competition. Each spring it sends a team of computer information technology majors to the regional Collegiate Cyber Defense Competition. Students interested in research work can get paid to work on projects with faculty members in a variety of areas, from web security to data mining. These student researchers often travel to conferences to present their work. Many students in the department work part time for NKU’s Center for Applied Informatics, developing mobile applications and websites for local companies and nonprofit organizations. Students often earn cooperative education credit for this work. The student chapter of the Association for Computing Machinery (ACM), runs both social and educational events.

Special admission requirements: Although there are no specific admission requirements for the programs in this department, prospective students should have an appropriate background in high school mathematics to increase their chances of success. In practice, this means a mathematics ACT score of at least 23 for computer information technology majors, a mathematics ACT score of at least 25 for computer science majors, and a mathematics ACT score of at least 25 for data science majors.

You should also know: Students must earn a grade of C- or better in each course that counts as part of a major or minor. Placement testing is available for some computer information technology, computer science and informatics courses. For more information contact an advisor in the College of Informatics advising center (Griffin Hall 404). Placement testing information for mathematics courses can be obtained from the Department of Mathematics and Statistics (Mathematics-Education-Psychology Center 401).

Computer Science Majors

Bachelor of Science with a major in Computer Information Technology

A major in computer information technology requires between 51 and 54 credit hours of coursework, depending on whether a student places out of selected courses.

Students in computer information technology study a core of courses that include basic informatics topics and fundamentals of computer and network administration. Students may choose between two tracks: one centered on network security, and the other on database and website administration. The computer information technology major (network/security track), combined with a minor in business informatics, is available in an evening, nontraditional format for adult learners through PACE, the Program for Adult-Centered Education.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Computer Information Technology

<table>
<thead>
<tr>
<th>Core Courses in Informatics</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INF 120 Elementary Programming (or placement)</td>
<td>0-3</td>
</tr>
<tr>
<td>INF 282 Introduction to Databases</td>
<td>3</td>
</tr>
<tr>
<td>INF 286 Introduction to Web Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Prerequisite: MAT 109 or placement.

Core Credits in Informatics: 6-9
A major in computer science requires between 60 and 63 credit hours of coursework, depending on whether a student places out of selected courses. Students in computer science begin their study with a basic core of informatics coursework, then move on to a chain of courses designed to build their software development skills. The program is rounded out by a set of electives sampled from a variety of application areas (such as artificial intelligence, computer graphics, and computer security). The major culminates in a team-project capstone course in software engineering. Because of the large number of mathematics courses required for the computer science major, many computer science majors choose a minor in mathematics.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

**Bachelor of Science with a major in Computer Science**

A major in data science requires between 82 and 85 credit hours, depending upon ACT/SAT scores or successful completion of placement testing. Students have the opportunity to complete one of two optional tracks, determined by selection of guided electives. The computation-intensive track involves selecting all three guided electives from computer science, data science, mathematics, and statistics courses. The business analytics track involves selecting all three guided electives from the business informatics courses. The data science major automatically gives the student a minor in computer science. Depending upon the selection of the three guided elective courses, the student may also earn a minor in applied statistics, business informatics, or mathematics.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program.
Degree Requirements: B.S. – Data Science

<table>
<thead>
<tr>
<th>Courses in Informatics</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INF 120 Elementary Programming (or placement)</td>
<td>0-3</td>
</tr>
<tr>
<td>INF 128 Principles of Informatics</td>
<td>3</td>
</tr>
<tr>
<td>INF 282 Introduction to Databases</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits in Informatics</strong></td>
<td><strong>6-9</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Courses in Business Informatics</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 275 Business Process Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BIS 300 Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BIS 330 IT Project Management</td>
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</tr>
<tr>
<td>BIS 384 Business Analytics</td>
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</tr>
<tr>
<td>BIS 430 Workflow Design and Management</td>
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</tr>
<tr>
<td><strong>Credits in Business Informatics</strong></td>
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<table>
<thead>
<tr>
<th>Courses in Computer Science</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CSC 260 Object-Oriented Programming I</td>
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</tr>
<tr>
<td>CSC 360 Object-Oriented Programming II</td>
<td>3</td>
</tr>
<tr>
<td>CSC 364 Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CSC 450 Database Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC guided elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits in Computer Science</strong></td>
<td><strong>15</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Courses in Data Science</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>DSC 101 Introduction to Data Science</td>
<td>1</td>
</tr>
<tr>
<td>DSC 311 Data Analytics</td>
<td>3</td>
</tr>
<tr>
<td>DSC 321 Data Visualization</td>
<td>3</td>
</tr>
<tr>
<td>DSC 411 Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>DSC 421 Big Data</td>
<td>3</td>
</tr>
<tr>
<td>DSC 496 Data Science Capstone</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits in Data Science</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Courses in Mathematics and Statistics</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 128 Calculus A [Prerequisite: MAT 119 or placement]</td>
<td>3</td>
</tr>
<tr>
<td>MAT 227 Calculus B</td>
<td>3</td>
</tr>
<tr>
<td>MAT 228 Calculus C</td>
<td>3</td>
</tr>
<tr>
<td>MAT 234 Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>STA 250 Probability and Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>STA 341 Statistics II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits in Mathematics and Statistics</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Courses in Other Disciplines</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 201 Principles of Microeconomics</td>
<td>3</td>
</tr>
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</table>

Guided Electives | Credits |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Select three courses from the following:</td>
<td></td>
</tr>
<tr>
<td>BIS 310 Information Systems Analysis</td>
<td></td>
</tr>
<tr>
<td>BIS 382 Principles of Information Security</td>
<td></td>
</tr>
<tr>
<td>BIS 420 Business Intelligence and Enterprise Applications</td>
<td></td>
</tr>
<tr>
<td>CSC 301 Web Programming</td>
<td></td>
</tr>
<tr>
<td>CSC 362 Computer Systems</td>
<td></td>
</tr>
<tr>
<td>CSC 402 Advanced Programming Methods</td>
<td></td>
</tr>
<tr>
<td>CSC 425 Artificial Intelligence</td>
<td></td>
</tr>
<tr>
<td>CSC 464 Design and Analysis of Algorithms</td>
<td></td>
</tr>
<tr>
<td>CSC 482 Computer Security</td>
<td></td>
</tr>
<tr>
<td>DSC 431 Network Analysis</td>
<td></td>
</tr>
<tr>
<td>MAT 325 Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MAT 329 Calculus III</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 375 Applied Mathematical Models</td>
<td></td>
</tr>
<tr>
<td>STA 316 Regression Analysis</td>
<td></td>
</tr>
<tr>
<td>STA 317 Introduction to Time Series Analysis</td>
<td></td>
</tr>
<tr>
<td>STA 340 Probability II</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>82-85</strong></td>
</tr>
</tbody>
</table>

**Computer Science Minors**

**Minor in Computer Information Technology**

The minor in computer information technology emphasizes the fundamentals of networking and system administration, and consists of 21 hours of coursework.

<table>
<thead>
<tr>
<th>Requirements for Minor: Computer Information Technology</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INF 110 Business Programming [OR] INF 120 Elementary Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIT 130 Information Technology Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CIT 247 Networking Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CIT 371 Unix Systems</td>
<td>3</td>
</tr>
<tr>
<td><strong>Select one 300/400-level CIT course</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Select 6 credit hours of INF, CIT, or CSC courses not included above</strong></td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

**Minor in Computer Forensics**

The computer forensics minor prepares students for work on a forensics team in either a law enforcement or corporate setting. A minor in computer forensics requires between 27 and 30 credit hours, depending upon ACT/SAT scores or successful completion of placement testing. Although the balance of information technology and criminal justice coursework required for the study of computer forensics may seem daunting at first glance, two of the courses in the minor, "INF 120: Elementary Programming" and "JUS 101: Introduction to Criminal Justice," also satisfy general education requirements. This minor is particularly well suited for students majoring in either computer information technology or criminal justice, in which case the credit hours required amount to 21 or fewer.

<table>
<thead>
<tr>
<th>Requirements for Minor: Computer Forensics</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INF 120 Elementary Programming [or placement]</td>
<td>0-3</td>
</tr>
<tr>
<td>CIT 130 Information Technology Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CIT 247 Networking Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CIT 371 Unix Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIT 480 Securing Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIT 430 Computer Forensics</td>
<td>3</td>
</tr>
<tr>
<td>JUS 101 Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>JUS 204 Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>JUS 320 Advanced Crime Scene Technology and Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>JUS 404 Evidence Preparation and Courtroom Testimony</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>27-30</strong></td>
</tr>
</tbody>
</table>

**Minor in Computer Science**

The minor in computer science emphasizes the fundamentals of software development, and requires between 21 and 24 hours of coursework, depending ACT/SAT scores or successful completion of placement testing.
The minor is valuable for students majoring in the sciences or business who wish to develop a range of contemporary programming skills. It is also valuable for secondary education majors planning to teach computer science. (The Computer Science Teachers Association website has detailed information on teaching in this field.)

**Requirements for Minor: Computer Science**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INF 120</td>
<td>Elementary Programming (or placement)</td>
<td>0-3</td>
</tr>
<tr>
<td>CSC 260</td>
<td>Object-Oriented Programming I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: MAT 109 or placement</td>
<td></td>
</tr>
<tr>
<td>CSC 360</td>
<td>Object-Oriented Programming II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: MAT 119 or MAT 128 OR MAT 129</td>
<td></td>
</tr>
<tr>
<td>CSC 362</td>
<td>Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OR -</td>
<td></td>
</tr>
<tr>
<td>CSC 364</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 credit hours of CSC courses not counted above</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 6 credit hours of INF, CSC, or CIT courses not included above</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 21-24**

**Certificate in Information Technology**

This certificate concentrates on the fundamentals of information technology. The program is designed for individuals with various backgrounds who wish to retrain for employment in this high-demand field, as well as for those who, for financial or other reasons, cannot complete a full 120-hour bachelor’s degree yet still wish to have a certificate as a credential for employment purposes.

**Requirements for Certificate: Information Technology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 130</td>
<td>Information Technology Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CIT 247</td>
<td>Networking Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CIT 371</td>
<td>Unix Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIT 480</td>
<td>Securing Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>STA 205</td>
<td>Introduction to Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OR -</td>
<td></td>
</tr>
<tr>
<td>STA 212</td>
<td>Statistics for Business Applications I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OR -</td>
<td></td>
</tr>
<tr>
<td>STA 250</td>
<td>Probability and Statistics I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: MAT 129 or MAT 227</td>
<td></td>
</tr>
<tr>
<td>BIS 300</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BIS 330</td>
<td>IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>BIS 382</td>
<td>Principles of Information Security</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIT 430</td>
<td>Computer Forensics</td>
<td></td>
</tr>
<tr>
<td>CIT 484</td>
<td>Network Security</td>
<td>3</td>
</tr>
<tr>
<td>CSC 482</td>
<td>Computer Security</td>
<td></td>
</tr>
<tr>
<td>CSC 483</td>
<td>Cryptology</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 27-30**

**Computer Science Undergraduate Certificates**

**Certificate in Cybersecurity**

Available in both traditional and fully-online formats.
This certificate is for students wanting to earn academic credentials in computer security. The required courses in this program will all be offered online, thus allowing a greater flexibility in being able to complete this certificate. The job market is growing rapidly for people able to effectively secure computers. Computer security is a very challenging technical field, requiring hands-on knowledge of a broad range of technologies as well as an effective understanding of government laws and policies related to computer crime. Students completing this program will have demonstrated an understanding of all NSA-specified core knowledge units of computer security.

**Requirements for Certificate: Cybersecurity**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 382</td>
<td>Principles of Information Security</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: BIS 300</td>
<td></td>
</tr>
<tr>
<td>CIT 247</td>
<td>Networking Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: CIT 130</td>
<td></td>
</tr>
<tr>
<td>CIT 371</td>
<td>Unix Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: INF 120 or placement</td>
<td></td>
</tr>
<tr>
<td>CIT 480</td>
<td>Securing Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIT 481</td>
<td>Cybersecurity Capstone</td>
<td>3</td>
</tr>
<tr>
<td>INF 282</td>
<td>Introduction to Databases</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 18**

**Certificate in Software Development**

This certificate concentrates on the core areas of computer programming and related technologies that prepare students to become proficient software developers.

The program is designed for individuals with various backgrounds who wish to retrain for employment in this high-demand field as well as for those who, for financial or other reasons, cannot complete a full 120-hour bachelor’s degree yet still wish to have a certificate as a credential for employment purposes.

It is recommended that students who plan to enroll in this certificate program have completed at least an introductory course in computer programming (so that they can gauge their interest and ability) and have a mathematics ACT score of at least 24 or equivalent. In this case, the certificate will require 18 credit hours of coursework, with no mathematics.

**Requirements for Certificate: Software Development**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 260</td>
<td>Object-Oriented Programming I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: MAT 109 or placement</td>
<td></td>
</tr>
<tr>
<td>CSC 360</td>
<td>Object-Oriented Programming II</td>
<td>3</td>
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<tr>
<td></td>
<td>Prerequisite: MAT 119 or MAT 128 OR MAT 129</td>
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</tr>
<tr>
<td>CSC 364</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>Select two courses from the following:</td>
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<tr>
<td>CSC 301</td>
<td>Web Programming</td>
<td></td>
</tr>
<tr>
<td>CSC 362</td>
<td>Computer Systems</td>
<td></td>
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<tr>
<td>CSC 402</td>
<td>Advanced Programming Methods</td>
<td>6</td>
</tr>
<tr>
<td>CSC 439</td>
<td>Software Testing and Maintenance</td>
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<tr>
<td>CSC 456</td>
<td>Advanced Web Application Development</td>
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</tr>
<tr>
<td>INF 120</td>
<td>Elementary Programming (or placement)</td>
<td>0-3</td>
</tr>
<tr>
<td>INF 282</td>
<td>Introduction to Databases</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 18-21**

**Minor in Information Security**

The information security minor prepares students for work as specialists on corporate information security teams.

A minor in information security requires between 27 and 30 credit hours, depending upon ACT/SAT scores or successful completion of placement testing. This minor is particularly well suited for students majoring in either computer information technology or business informatics.

**Requirements for Minor: Information Security**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INF 120</td>
<td>Elementary Programming (or placement)</td>
<td>0-3</td>
</tr>
<tr>
<td>CIT 130</td>
<td>Information Technology Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CIT 247</td>
<td>Networking Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CIT 371</td>
<td>Unix Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIT 480</td>
<td>Securing Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>STA 205</td>
<td>Introduction to Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OR -</td>
<td></td>
</tr>
<tr>
<td>STA 212</td>
<td>Statistics for Business Applications I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OR -</td>
<td></td>
</tr>
<tr>
<td>STA 250</td>
<td>Probability and Statistics I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: MAT 129 or MAT 227</td>
<td></td>
</tr>
<tr>
<td>BIS 300</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BIS 330</td>
<td>IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>BIS 382</td>
<td>Principles of Information Security</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIT 430</td>
<td>Computer Forensics</td>
<td></td>
</tr>
<tr>
<td>CIT 484</td>
<td>Network Security</td>
<td>3</td>
</tr>
<tr>
<td>CSC 482</td>
<td>Computer Security</td>
<td></td>
</tr>
<tr>
<td>CSC 483</td>
<td>Cryptology</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 27-30**
Pre-Professional and Interdisciplinary Programs

NKU pre-professional programs are offered to students who plan to attend a professional program following their work at NKU. It covers the following areas: pre-dental, pre-engineering, pre-medical, pre-optometry, pre-physician assistant, pre-pharmacy, pre-physical therapy, and pre-veterinary medicine.

Interdisciplinary programs cross departmental boundaries and expose students to the perspectives of different disciplines. NKU offers three interdisciplinary majors: environmental science, integrative studies, and international studies. NKU offers 21 interdisciplinary minors: ancient civilizations, Asian studies, black studies, Celtic studies, Chinese studies, cinema studies, environmental studies, European studies, evolutionary studies, honors, international studies, Latin American and Caribbean studies, medieval and Renaissance studies, Middle Eastern and North African studies, Native American studies, neuroscience, popular culture studies, religious studies, social justice studies, Sub-Saharan African studies, and women’s and gender studies. The university offers one interdisciplinary undergraduate certificate in geographic information systems.
Pre-Professional Programs

The information about pre-professional programs is general. Students interested in a professional program are advised to work closely with an NKU advisor who specializes in the professional area of interest. Students whose interests lie outside these specific areas should consult an advisor before registering for classes. Students interested in a career in occupational therapy, podiatry, or another medically-related area, should consult an advisor in biology or chemistry.

Pre-Dental

Dental programs, like medical programs, admit students who are liberally educated with strong mathematics and science backgrounds. Students who wish to pursue careers in dentistry often choose majors in the natural sciences and mathematics, but they may fulfill their admission requirements with any degree, provided they fulfill the specific dental school course requirements. Students interested in dentistry should work closely with a pre-dentistry advisor who will help ensure they complete the specific requirements for their desired programs and their NKU bachelor’s degrees. The biological sciences and chemistry on page 79 departments have faculty who are dedicated pre-dental advisors.

Coursework

Pre-dental students at NKU often choose majors in biological sciences (cellular/molecular/genetics track) or chemistry (biochemistry track) because these degrees include all the requirements for entry into dental schools. Students who choose non-science majors should complete electives at the 300/400/500 level and above in courses such as cell biology, biochemistry, molecular biology, physiology, and genetics. Requirements for dental schools generally include:

- Two semesters of biology with labs (some schools require an additional two semesters of biology courses at the 300/400/500 level).
- Two semesters of inorganic/general chemistry with labs.
- Two semesters of organic chemistry with labs.
- One semester of physics with labs.
- Two semesters of English/composition courses (discipline-specific 291W/391W courses are accepted).

AP credit

AP credit may be treated differently by specific dental programs regardless of how the credit is treated by NKU. Students who have AP credit and who wish to attend professional programs should work closely with their advisors.

First-year plan

Because students can pursue any degree program to prepare for dental school, only the first year of recommended study is shown below. To see four-year plans in particular areas (such as biological sciences or chemistry), please see those particular degree programs.

FIRST YEAR

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 121/121L</td>
<td>General Chemistry I with Laboratory</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MAT 129</td>
<td>Calculus I</td>
<td>-- OR --</td>
<td>3-4</td>
</tr>
<tr>
<td>MAT 112</td>
<td>Applied Calculus (biology only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gen E:</td>
<td>Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BIO 150/150L</td>
<td>Introduction to Biology I with Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>14-15</td>
</tr>
</tbody>
</table>

Pre-Engineering

NKU, in conjunction with the University of Kentucky, offers students the opportunity to pursue a degree in agricultural, chemical, civil, electrical, mechanical, materials, or mining engineering. Similar arrangements exist with the Speed Scientific School at the University of Louisville. At University of Louisville, there are programs leading to degrees in chemical, civil, electrical, industrial, and mechanical engineering as well as a hybrid degree in engineering mathematics and computer science.

Pre-engineering students may elect to follow a three/two agreement that leads to the award of a degree in physics from NKU and the award of a degree in a field of engineering from the program and institution of choice. Alternatively, a student may elect to study at NKU for two years of coursework then transfer to another institution to complete the requirements for the B.S. in a field of engineering in two years without a physics degree from NKU.

Pre-engineers must contact the Department of Physics and Geology to obtain an academic advisor. Most pre-engineering students will be expected to complete at least this group of courses at NKU before transfer to a degree program in engineering:

- One year of English composition.
- Three semesters of calculus-based physics with lab.
- Two years of calculus and differential equations.
- One year of chemistry.
- Courses in computer graphics, general education, and introduction to engineering and design.

More information is available about pre-engineering and related programs in the catalog section for physics and geology.

Pre-Medical or Physician Assistant

Students who wish to pursue careers in medicine, including osteopathic medicine, and students who wish to become a physician’s assistant may fulfill their admission requirements with any degree provided they fulfill the specific course requirements of those professional programs. Students interested in medicine should work closely with their advisors who will help ensure they complete the specific requirements for their desired programs and their NKU bachelor’s degrees. Some departments, such as biological sciences and chemistry, have faculty who are dedicated pre-med advisors.

Coursework

The two most common degrees sought by pre-med students at NKU are in biological sciences (cellular/molecular/genetics track) and chemistry (biochemistry track). However, regardless of the major a student chooses, the requirements for entry into medical school are met by completing the courses listed below. It is recommended that non-science majors complete several electives at the 300/400/500 level in biology, chemistry, or related disciplines. In addition, courses in mathematics, behavioral and social
sciences, and the humanities, provide excellent preparation for medical study. Requirements for professional medical programs generally include:

- One year of biology with labs.
- One year of inorganic/general chemistry with labs.
- One year of organic chemistry with labs.
- One year of physics with labs.
- One year of English/composition courses (discipline-specific 291W/391W courses are accepted).
- Mathematics (varies with programs; usually two semesters of mathematics required).

Recommended for Medical College Admissions Test (MCAT)

- One semester of Introductory Psychology
- One semester of Introduction to Sociology
- One semester of Biochemistry
- One semester of Cell Biology
- One semester of Statistics

AP credit

AP credit is treated differently by specific medical and osteopathic programs regardless of how the credit is treated by NKU. Students who have AP credit and who wish to attend professional programs should work closely with their advisors.

First-year plan

Because students can pursue any degree program to prepare for medical school, only the first year of recommended study is shown below. To see four-year plans in particular areas (such as biological sciences or chemistry), please see those particular degree programs.

### FIRST YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHE 120/120L General Chemistry I with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MAT 129 Calculus I -- OR --</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>MAT 112 Applied Calculus (biology only)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Gen Ed Written Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIO 150/150L Introduction to Biology I with Laboratory</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td><strong>14-15</strong></td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHE 121/121L General Chemistry II with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MAT 229 Calculus II (chemistry) -- OR --</td>
<td>3-5</td>
</tr>
<tr>
<td></td>
<td>STA 205 Introduction to Statistical Methods (biology)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Gen Ed Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIO 151/151L Introduction to Biology II with Laboratory</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td><strong>14-16</strong></td>
</tr>
</tbody>
</table>

Pre-Optometry

Students intending to enter the field of optometry should consult with the pre-optometry advisor in planning their curriculum. In general, the Bachelor of Science, cellular/molecular/genetics track with calculus (MAT 129) in biological sciences or the biochemistry track in chemistry are useful models.

Residents of Kentucky are provided spaces at Indiana University School of Optometry (Bloomington), Southern College of Optometry (Memphis, Tenn.), and University of Alabama at Birmingham School of Optometry. These students are exempt from out-of-state tuition.

Pre-Pharmacy

Some pharmacy schools accept students with or without their completing a bachelor’s degree, but many pharmacy schools are converting to Pharm.D. programs that require a bachelor’s degree for admission. For those schools that do not yet require a bachelor’s degree, students who enter NKU are able to start their science courses right away, or students who have AP credit hours can complete the entry requirements in just two years, but more commonly, students require three years. Even for pharmacy schools that do not require a bachelor’s degree for admission, advisors generally recommend that students fully complete their bachelor’s degrees both to better prepare students for the rigors of pharmacy school and to give them maximal flexibility in their future career directions. Both the Department of Biological Sciences and the Department of Chemistry have faculty advisors who specialize in pre-pharmacy advising.

Coursework

The following coursework is generally required for admission to pharmacy school:

- Two semesters of biology with labs.
- One semester of microbiology with lab.
- One semester of anatomy and physiology with lab.
- Two semesters of inorganic/general chemistry with labs.
- Two semesters of organic chemistry with labs.
- One semester of calculus.
- One semester of statistics.
- Two semesters of physics with labs.
- Two semesters of English/composition courses (discipline-specific 291W courses are accepted).

Two-year plan

Following is shown one example of how to complete a common core of requirements in two years. Because requirements vary slightly between pharmacy programs, students are urged to work very closely with their advisors and plan accordingly. Please see four-year plans in particular areas of interest (such as biological sciences or chemistry) to see how the pre-pharmacy requirements can be met concurrently with the requirements for a bachelor’s degree.

### FIRST YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>CHE 120/120L General Chemistry I with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MAT 129 Calculus I -- OR --</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>MAT 112 Applied Calculus (biology only)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Gen Ed Written Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIO 150/150L Introduction to Biology I with Laboratory</td>
<td>3</td>
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<tr>
<td></td>
<td>TOTAL</td>
<td><strong>14-15</strong></td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
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</tr>
<tr>
<td></td>
<td>CHE 121/121L General Chemistry II with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>STA 205 Introduction to Statistical Methods (biology)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Gen Ed Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIO 151/151L Introduction to Biology II with Laboratory</td>
<td>3</td>
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<td>TOTAL</td>
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</tr>
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</table>

SECOND YEAR

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<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHE 310/310L Organic Chemistry I with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>PHY 211 General Physics with lab I</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>BIO 302/302L General Microbiology with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ECO 201 Principles of Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>
Pre-Physical Therapy

Students interested in a career in physical therapy may complete their pre-professional coursework at NKU. For most physical therapy schools the requirement is a bachelor’s degree that includes specified pre-professional coursework. For up-to-date information, students should check current catalogs or websites of the professional schools to which they intend to apply. Students should seek an advisor in biological sciences or chemistry.

Coursework

The following coursework is generally required for admission to a physical therapy program:

- Two semesters of biology with labs.
- Two semesters of inorganic/general chemistry with labs.
- One semester of statistics.
- One semester of medical terminology.
- Two semesters of physics with labs.
- One semester of oral communication.
- One semester of introduction to psychology.
- One semester of developmental psychology.

First-year plan

Because requirements vary slightly between physical therapy programs, students are urged to work very closely with their advisors to plan their program. Four-year plans in particular areas of interest (such as biological sciences or chemistry) show how the pre-physical therapy requirements can be met concurrently with the requirements for a bachelor’s degree. Only the first year of recommended study is shown below.

FIRST YEAR

<table>
<thead>
<tr>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>CHE 120/120L</td>
<td>General Chemistry I with Laboratory 4</td>
</tr>
<tr>
<td>MAT 129</td>
<td>Calculus I -- OR -- 3-4</td>
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<tr>
<td>MAT 112</td>
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</tr>
<tr>
<td>Gen Ed</td>
<td>Written Communication 3</td>
</tr>
<tr>
<td>BIO 150/150L</td>
<td>Introduction to Biology I with Laboratory 4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>14-15</strong></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td>CHE 121/121L</td>
<td>General Chemistry II with Laboratory 4</td>
</tr>
<tr>
<td>STA 205</td>
<td>Introduction to Statistical Methods 3</td>
</tr>
<tr>
<td>Gen Ed</td>
<td>Oral Communication 3</td>
</tr>
<tr>
<td>BIO 151/151L</td>
<td>Introduction to Biology II with Laboratory 4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

Pre-Veterinary Medicine

Although Kentucky does not have a school of veterinary medicine, a limited number of students who are residents of Kentucky are selected to enter training in veterinary medicine at Auburn University in Auburn, Ala., and Tuskegee University in Tuskegee, Ala. It is sometimes possible to enter veterinary school with three years of study at NKU. However, because many more students apply to veterinary schools than are accepted, it is strongly advised that all pre-vet students plan their curricula in such a way that the addition of a fourth year of coursework will satisfy NKU’s requirements for the bachelor’s degree, usually in biological sciences or chemistry. To design a four-year curriculum that fulfills the pre-veterinary requirements and the requirements for a bachelor’s degree, interested students should work closely with their advisors.

Coursework

Pre-veterinary students typically follow degree tracks for biological sciences (cellular/molecular/genetics track) or chemistry (biochemistry track), but any track will work as long as the veterinary entry requirements are met. It is recommended that non-science majors complete several electives at the 300/400/500 level in biology, chemistry or related disciplines to their degree programs. Program requirements for veterinary medicine generally include:

- One year of biology with labs plus two additional semesters of biology courses from a list of alternatives.
- One year of inorganic/general chemistry with labs.
- One year of organic chemistry with labs.
- One year of physics with labs.
- One year of English/composition courses (discipline-specific 291W courses are accepted).
- One semester of mathematics.
- One semester of biochemistry plus one semester of animal nutrition.
- Humanities, fine arts, social, and behavioral electives.

AP credit

AP credit is treated differently by specific veterinary programs regardless of how the credit is treated by NKU. Students who have AP credit and who wish to attend professional programs should work closely with their advisors.

First-year plan

Because students can pursue any degree program to prepare for veterinary school, only the first year of recommended study is shown below. To see four-year plans in particular areas (such as biological sciences or chemistry), please see those particular degree programs.

FIRST YEAR

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 120/120L</td>
<td>General Chemistry I with Laboratory 4</td>
</tr>
<tr>
<td>MAT 129</td>
<td>Calculus I -- OR -- 3-4</td>
</tr>
<tr>
<td>MAT 112</td>
<td>Applied Calculus (biology only)</td>
</tr>
<tr>
<td>Gen Ed</td>
<td>Written Communication 3</td>
</tr>
<tr>
<td>BIO 150/150L</td>
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</tbody>
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<table>
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<tr>
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<tr>
<td>CHE 121/121L</td>
<td>General Chemistry II with Laboratory 4</td>
</tr>
<tr>
<td>STA 205</td>
<td>Introduction to Statistical Methods 3</td>
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<tr>
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<tr>
<td>BIO 151/151L</td>
<td>Introduction to Biology II with Laboratory 4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>14-16</strong></td>
</tr>
</tbody>
</table>
Interdisciplinary Programs

NKU offers a variety of interdisciplinary programs that provide students and faculty with the opportunity to explore and develop subject areas and methods of inquiry otherwise not available within traditional disciplines of the university. Because these tend to be innovative programs, they may undergo curricular change more often than traditional programs. As a result, students are strongly encouraged to work with the program director or an advisor to remain current on program requirements, options, and opportunities.

Interdisciplinary Majors

Environmental Science

Location: Herrmann Science Center 150
Telephone: 859-572-1407
Fax: 859-572-5639
Email Address: envs@nku.edu
Web Address: http://envsci.nku.edu
Program Director: Richard L. Boyce, Department of Biological Sciences
Other Faculty: Kristine N. Hopfensperger, Kirsten Schwarz

Bachelor of Science with a major in Environmental Science

The environmental science program is an interdisciplinary program that provides those interested in environmental careers with a strong background in biology, chemistry, geology, mathematics, and physics. This multidisciplinary background is combined with 300-level or above course requirements that integrate the disciplines and emphasize the scientific study of environmental issues from a research- and career-oriented perspective. The inclusion of research or internships enables students to gain expertise and experience to monitor, analyze, and contribute to the solution of current environmental problems. These opportunities are provided by faculty from the biology, chemistry, and physics and geology departments, the Center for Integrative Natural Science and Mathematics, the Center for Environmental Restoration, and industry and government agencies. Students graduating with a Bachelor of Science in environmental science are well equipped to join the ranks of other environmental professionals working with local, state, and federal agencies; consulting firms; or nonprofit organizations. They are also qualified to become part of a research team or pursue graduate study in environmental sciences.

Special admission requirements: The admission standards for all students pursuing degrees in environmental science are mathematics ACT 22 and CPE minimum standards of 18 and 20 reading, or successful completion of appropriate developmental courses. Transfer students must also meet these requirements before declaring an environmental science major.

You should also know: The degree of Bachelor of Science in environmental science will be conferred upon all students who complete all of the following course requirements with a grade of C- or better.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Environmental Science

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 150/150L</td>
<td>4</td>
</tr>
<tr>
<td>BIO 151/151L</td>
<td>4</td>
</tr>
<tr>
<td>BIO 304/304L</td>
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</tr>
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<td>CHE 120/120L</td>
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</tr>
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<td>CHE 121/121L</td>
<td>4</td>
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<td>CHE 310/310L</td>
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<td>ENV 110</td>
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<td>ENV 115</td>
<td>1</td>
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<tr>
<td>ENV 291W</td>
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<tr>
<td>ENV 494</td>
<td>1</td>
</tr>
<tr>
<td>GEO 306</td>
<td>3</td>
</tr>
<tr>
<td>GEO 418</td>
<td>4</td>
</tr>
<tr>
<td>GLY 120</td>
<td>3</td>
</tr>
<tr>
<td>GLY 340</td>
<td>3</td>
</tr>
<tr>
<td>GLY 450</td>
<td>4</td>
</tr>
<tr>
<td>MAT 119</td>
<td>3</td>
</tr>
<tr>
<td>PHY 211</td>
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<td>PHY 213</td>
<td>5</td>
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<tr>
<td>STA 205</td>
<td>3</td>
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Select one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 406</td>
<td>Ecosystem Ecology</td>
</tr>
<tr>
<td>ENV 220/220L</td>
<td>Protecting Water Resources</td>
</tr>
<tr>
<td>ENV 294</td>
<td>Topics in Environmental Science</td>
</tr>
<tr>
<td>ENV 350</td>
<td>Environmental Toxicology</td>
</tr>
<tr>
<td>ENV 394</td>
<td>Topics in Environmental Science</td>
</tr>
</tbody>
</table>

Or other course approved by the program director

One 3-credit-hour internship –OR– Directed research

A minor in biology, chemistry, geology, or geography (The requirements for the minor beyond the 8-4 credit hours are completed as part of the environmental science major.)

8-14

Total Credits: 79-85

Integrative Studies

Location: Steely Library 410
Telephone: 859-572-1450
Fax: 859-572-6185
Email Address: ist@nku.edu
Web Address: http://ist.nku.edu
Program Director: Rudy Garns (interim)

Other Key Personnel:

Undergraduate Advisors: Casey Binder, Samantha Muntis, Melody McMillan

Undergraduate Programs:

Associate of Arts
Integrative Studies
Bachelor of Arts
Integrative Studies

Thinking about the program: The integrative studies program provides the opportunity for students to pursue an individualized and broad-based education. The major is designed as a flexible program of multidisciplinary and integrative study. Although students follow different paths through integrative studies, they share certain characteristics. One might think of this as the “guiding philosophy” of the program:

- Students embrace an interdisciplinary approach to education, striving to understand complex questions and problems that transcend any single discipline.
• Students refuse limitations within fields by integrating concepts and methods from multiple disciplines and knowledge bases.
• Students engage with their peers and faculty across disciplines, colleges, and institutions to offer new perspectives on traditional beliefs and practices.

**You should also know:** This major serves at least four groups of learners: (1) students with more general and eclectic interests who do not fit comfortably in a single discipline; (2) transfer students whose prior work does not mesh well with existing programs of study at NKU; (3) students leaving highly structured majors late in their undergraduate career; and (4) adult learners who have interrupted their studies for a prolonged period and return with a different academic focus to complete their degree requirements. The associate and bachelor’s programs for integrative studies are available as traditional daytime classes and in an evening, nontraditional format for adult learners through PACE. Students can learn more about this option by visiting the website (http://arts.cience.nku.edu/departments/integrative.studies.html). The associate program for integrative studies can also be completed through the NKU Grant County Center (http://adullearner.nku.edu/grantcounty.html) in Williamsport.

**Associate of Arts in Integrative Studies**

The Associate of Arts in integrative studies is a flexible two-year degree ideal for students who are looking for academic accreditation either to advance their employment opportunities or as a stepping-stone toward a four-year degree. The associate degree requires a focus in one of the following areas:

- Humanities
- Fine arts
- Social/behavioral sciences
- Natural sciences/mathematics

The focus must include 15 credit hours of coursework in the chosen area with at least 6 credit hours at the 300 level or above. Courses must be from at least two different disciplines within the chosen area.

**Special admission requirements:** For entrance into the Associate of Arts in integrative studies program, a student must not have completed more than 48 credit hours.

**Special graduation requirements:** To remain in the program, students must maintain an overall minimum GPA of 2.00 or better.

**You should also know:** This degree cannot be counted as a minor or focus.

**Bachelor of Arts in Integrative Studies**

Available in both traditional and fully-online formats.

This program requires students to complete minors or focus areas in four different disciplines. The requirements for a minor in any discipline are listed in the relevant department’s pages in this catalog. A focus is defined as 12 credit hours at the 300/400/500 level, in any disciplinary major. The four areas of study must include:

- At least two areas from the College of Arts and Sciences.
- At least 45 credit hours in courses at the 300 level or above.
- This program’s culminating experience – the capstone course – which involves both a portfolio of artifacts (work samples from each of the four disciplines studied), and a multidisciplinary project.

The program website includes specific information about the capstone course, portfolio, and multidisciplinary project.

**Special graduation requirements:** No grade of C- (or lower) will be accepted in any minor or focus.

**International Studies**

**Location:** Founders Hall 436
**Telephone:** 859-572-1961
**Fax:** 859-572-6184

**Email Address:** psc@nku.edu
**Web Address:**
**Program Coordinator:** Shauna Reilly, Department of Political Science, Criminal Justice and Organizational Leadership

**Bachelor of Arts with a major in International Studies**

International relations are shaped by the forces of culture, ideology, identity, geography, history, religion, social relations, and economics. International studies is an interdisciplinary major that focuses on understanding these dynamic transnational factors and issues that influence relations between actors in the world system. The international studies major requires completing 15 hours in required classes; 27 hours in electives, with one course from each of the four international fields (business and economics, culture and ideas, development, and politics and policy); and five additional elective courses. Electives must include at least one course from each of the following disciplines: anthropology, geography, history, political science, and sociology.

Students must also complete 12 hours in a foreign language. Only courses with a grade of C- or better may count toward an international studies major, minor, or area of focus. Students must have a cumulative GPA of at least 2.5 in their degree coursework to qualify for graduation.

Students are encouraged to complete study-abroad courses and internships toward the international studies major. Topics courses and independent study credit hours may fulfill secondary course requirements. Contact the international studies coordinator prior to enrolling in any of these options to verify whether the credit hours qualify, and if so, how much they will apply toward completing the major degree program requirements. The Office of Education Abroad (University Center 330) can help with scholarship applications to offset expenses, including university scholarships, as well as a “beyond the classroom” scholarship toward study abroad, sponsored by the sociology department, for which all majors are eligible.

**Degree Requirements: B.A. – International Studies**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 103</td>
<td>International Politics 3</td>
</tr>
<tr>
<td>PSC 470</td>
<td>Globalization 3</td>
</tr>
<tr>
<td>Select three courses (nine credits) from the following:</td>
<td></td>
</tr>
<tr>
<td>ANT 100</td>
<td>Introduction to Cultural Anthropology</td>
</tr>
<tr>
<td>ECO 200</td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td>GEO 101</td>
<td>World Regional Geography</td>
</tr>
<tr>
<td>HIS 111</td>
<td>Global Viewpoints in History 9</td>
</tr>
<tr>
<td>PSC 102</td>
<td>Comparative Politics</td>
</tr>
<tr>
<td>REL 200</td>
<td>World Religions and Cultures</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Global Inequalities</td>
</tr>
<tr>
<td>Elementary Language I 3</td>
<td></td>
</tr>
<tr>
<td>Elementary Language II 3</td>
<td></td>
</tr>
<tr>
<td>Intermediate Language I 3</td>
<td></td>
</tr>
<tr>
<td>Intermediate Language II 3</td>
<td></td>
</tr>
<tr>
<td>Students placing out of the 202 level of language must complete one 300+ level language course at NKU. Students may select from the following languages: Arabic, Chinese, French, German, Italian, Japanese, Korean, Russian, and Spanish. Note that Latin does not qualify:</td>
<td></td>
</tr>
<tr>
<td>French, German, Japanese, and Spanish sections of 101,102, 201, and 202 are offered every fall and spring semester at NKU. Arabic, Chinese, Italian, Korean, and Russian are offered as follows: 101 in the fall semester, 102 in the spring semester. Completing the intermediate level for these courses may involve taking courses off-campus through the regional consortium. Contact the Department of World Languages and Literatures for details regarding regularity and availability of these courses.</td>
<td></td>
</tr>
</tbody>
</table>
**NOTE:** When selecting courses from the following international fields, choose at least one course from ANT, GEO, HIS, PSC and SOC.

### Business and Economics – select one course from the following:
- ANT 366: Economy, Wealth, and Culture
- BIS 440: Global Information Technology Management
- CTE 316: Intercultural Business Communication
- ECO 340: International Economics
- ECO 342: Economic Development 3
- ECO 344: Comparative Economic Systems
- FIN 415: International Finance
- GEO 303: Economic Geography
- MGT 355: International Business Environment
- MGT 360: Comparative International Management
- MKT 333: Global and Cultural Issues in Marketing
- MKT 360: International Marketing
- PSC 410: International Political Economy

### Culture and Ideas – Select one course from the following:
- ANT 201: World Cultures
- ANT 275: Language and Culture
- ANT 301/SOC: World Patterns of Race and Ethnicity 3
- ANT 320: Religion and Culture
- ANT 358: Arts and Culture
- CIN 201: Survey of World Cinema
- EMB 370: International Media Systems
- ENG 213: Global Viewpoints in Literature
- GEO 302: Cultural Geography 3
- HNR 309: World Cities/World Cultures
- LDR 150: Leadership Around the World
- LDR 460: Leading in Diverse and Global Contexts
- MUS 106: Music of World Cultures
- PHI 320: Social and Political Philosophy
- PHI 309: Global Ethics
- POP 250: International Popular Culture
- PSC 312: Modern Ideologies
- PSC 322: International Politics in Film
- SOC 340: Sociology of Religion
- WGS 383: Women and World Cultures

### Development – select one course from the following:
- ANT 345: Environmental Anthropology
- ANT 372: Peasant Societies
- ENG 304: Introduction to Post-Colonial Literature
- GEO 310: Geography of Population
- HIS 321: Modernization in the Non-Western World 3
- PSC 338: U.S. Foreign Policy and the Developing World
- PSC 410: International Political Economy
- PSC 425: Sex and Global Society
- PSC 465: Democracy and Democratization
- SOC 340: Population
- SOC 355: Sociology of the Environment

### Politics and Policy – select one course from the following:
- GEO 304: Political Geography and Geopolitics
- HIS 423: Diplomacy and Foreign Policy of the United States
- HIS 485: History of Terrorism
- PSC 415: United States Foreign Policy 3
- PSC 480: International Law
- PSC 481: International Organizations
- PSC 482: Comparative Electoral Systems
- PSC 485: Comparative Foreign Policies
- PSC 486: Conflict and Security
- SOC 425: Political Sociology

Select five courses from any of the above not previously chosen 15

**TOTAL CREDITS** 54

**NOTE:** For all options, other courses carrying international studies credit will be listed in the schedule of classes each semester and may be used as substitute electives on approval by the chair of the Department of Political Science, Criminal Justice, and Organizational Leadership or the coordinator of international studies.

### Interdisciplinary Minors

#### Ancient Civilizations

**Location:** Landrum Academic Center 217C
**Telephone:** 859-572-5259
**Fax:** 859-572-6086
**Email Address:** voelkerj1@nku.edu

**Program Director:** Judy Voelker, Department of Sociology, Anthropology, and Philosophy

#### Minor in Ancient Civilizations

The study of ancient human civilizations is both one of the most challenging and most rewarding fields of scholarly endeavor. Successful research across such a depth of time demands an interdisciplinary approach that draws upon a variety of fields, including anthropology, archaeology, art, classics, English, history, philosophy, political science, religious studies, theatre, world languages, and others.

Students and scholars who are willing to undertake such study are rewarded with insights into the period of human society when crucial steps were made in constructing the foundations for the modern world. It was, after all, in the ancient world that the building blocks of contemporary religions, languages, social systems, and technologies were laid down.

The ancient civilizations minor is built around a shared core of 6 credit hours and the choice of three independent tracks that allow students to design a minor tailored to their own scholarly interests and needs.

If a particular course has a prerequisite that is not listed as part of the minor requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites must be completed IN ADDITION TO other program requirements.

#### Requirements for Minor: Ancient Civilizations

<table>
<thead>
<tr>
<th>Core Courses in Ancient Civilizations</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 108: World History to 1500</td>
<td>3</td>
</tr>
<tr>
<td>ANT 380: Origins of Civilization</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL CORE CREDITS</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

#### Classics and Near Eastern Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAT 201 Intermediate Latin I</td>
<td>3</td>
</tr>
<tr>
<td>LAT 202 Intermediate Latin II</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 9 credit hours from the following. Courses must come from at least two different disciplines.

- ANT 331 Women in Prehistory
- ARTH 101 Survey of Western Art I
- ARTH 350 Ancient Art
- ENG 206 Western World Literature I
- ENG 215 Greek and Roman Mythology
Select 15 credit hours from the following. Courses must come from at least two different disciplines.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 110</td>
<td>Introduction to Archaeology</td>
</tr>
<tr>
<td>ANT 318</td>
<td>Prehistoric Ecology</td>
</tr>
<tr>
<td>ANT 331</td>
<td>Women in Prehistory</td>
</tr>
<tr>
<td>ANT 352</td>
<td>Archaeology of Mesoamerica</td>
</tr>
<tr>
<td>ANT 394</td>
<td>Topics: Anthropology (if a world civilizations topic)</td>
</tr>
<tr>
<td>ANT 594</td>
<td>Topics: Anthropology (if an ancient civilizations topic)</td>
</tr>
<tr>
<td>ARI 201</td>
<td>Intermediate Arabic I</td>
</tr>
<tr>
<td>ARI 202</td>
<td>Intermediate Arabic II</td>
</tr>
<tr>
<td>ARTH 101</td>
<td>Survey of Western Art I</td>
</tr>
<tr>
<td>ARTH 350</td>
<td>Ancient Art</td>
</tr>
<tr>
<td>CHI 201</td>
<td>Intermediate Chinese I</td>
</tr>
<tr>
<td>CHI 202</td>
<td>Intermediate Chinese II</td>
</tr>
<tr>
<td>ENG 206</td>
<td>Western World Literature I</td>
</tr>
<tr>
<td>ENG 215</td>
<td>Greek and Roman Mythology</td>
</tr>
<tr>
<td>ENG 315</td>
<td>The Bible as Literature</td>
</tr>
<tr>
<td>HIS 100</td>
<td>History of Europe to 1500</td>
</tr>
<tr>
<td>HIS 300</td>
<td>The Ancient Near East and Greece to the Macedonian Conquest</td>
</tr>
<tr>
<td>HIS 301</td>
<td>The Hellenistic World and Rome to the Death of Constantine</td>
</tr>
<tr>
<td>HIS 329</td>
<td>History of the Middle East and North Africa</td>
</tr>
<tr>
<td>HIS 338</td>
<td>History of Japan</td>
</tr>
<tr>
<td>HIS 335</td>
<td>History of Ancient Africa</td>
</tr>
<tr>
<td>HIS 340</td>
<td>History of Imperial China</td>
</tr>
<tr>
<td>HIS 494</td>
<td>Topics: History (if a world civilizations topic)</td>
</tr>
<tr>
<td>JPN 201</td>
<td>Intermediate Japanese I</td>
</tr>
<tr>
<td>JPN 202</td>
<td>Intermediate Japanese II</td>
</tr>
<tr>
<td>JPN 203</td>
<td>Ancient Japanese Literature</td>
</tr>
<tr>
<td>JPN 204</td>
<td>Ancient Political Theory</td>
</tr>
<tr>
<td>PSC 110</td>
<td>Political Ideas</td>
</tr>
<tr>
<td>PSC 115</td>
<td>Prehistory of the Ancient Near East and Egypt</td>
</tr>
<tr>
<td>PSC 370</td>
<td>Ancient Political Theory</td>
</tr>
<tr>
<td>REL 101</td>
<td>Introduction to Judaism</td>
</tr>
<tr>
<td>REL 201</td>
<td>Intermediate Biblical Studies</td>
</tr>
<tr>
<td>REL 202</td>
<td>Intermediate Theology</td>
</tr>
<tr>
<td>REL 301</td>
<td>Ancient Religions</td>
</tr>
<tr>
<td>REL 302</td>
<td>Survey of the Hebrew Bible (Old Testament)</td>
</tr>
<tr>
<td>REL 303</td>
<td>Survey of New Testament</td>
</tr>
<tr>
<td>REL 307</td>
<td>Survey of Christianity</td>
</tr>
<tr>
<td>TAR 346</td>
<td>History of the Theatre and Dramatic Literature I</td>
</tr>
</tbody>
</table>

TOTAL TRACK CREDITS 15
Total Core Credits 6
TOTAL CREDITS 21
Asian Studies Minor

Location: Founders Hall 436
Telephone: 859-572-1961
Fax: 859-572-6184
Email Address: psc@nku.edu
Web Address: http://artscience.nku.edu/departments/pscj/programs/internationalstudies.html

Program Coordinator: Shauna Reilly, Department of Political Science, Criminal Justice, and Organizational Leadership

This minor enables students to develop an integrated understanding of the culture, ideology, identity, geography, history, religion, social relations, and economics of Asia. The minor requires 18 credit hours, including 6 credit hours of relevant language courses.

Requirements for Minor: Asian Studies

Select one course from the following:*  
- CHI 101 Elementary Chinese  
- JPN 101 Elementary Japanese I  
- KOR 101 Elementary Korean I

Select one course from the following:*  
- CHI 102 Elementary Chinese II  
- JPN 102 Elementary Japanese II  
- KOR 102 Elementary Korean II

Select two courses from the following two different disciplines:  
- ANT 385 Peoples of East and Southeast Asia  
- HIS 338 History of Japan  
- HIS 341 History of Revolutionary China  
- PSC 388 Politics of Asia  
- TAR 346 History of the Theatre and Dramatic Literature I

Select two courses from the following:  
- ARTH 104 Survey of Asian Art  
- ARTH 452 Arts of South Asia  
- ARTH 359 Arts and Crafts of Japan  
- ANT 385 Peoples of East and Southeast Asia  
- GEO 410 Geography of East Asia  
- HIS 338 History of Japan  
- HIS 341 History of Revolutionary China  
- JPN 380 Topics in Advanced Japanese  
- PHI 312 Eastern Philosophy  
- POP 345 Japanese Popular Culture  
- PSC 388 Politics of Asia

*General sequence of these courses includes CHI 101 in fall and CHI 102 in spring or JPN 101 in fall and JPN 102 in spring or KOR 101 in fall and KOR 102 in spring. Students are encouraged to pursue one or more Asian languages to at least the second part of the sequence in completing this minor.

TOTAL CREDITS 18

Black Studies

Location: Landrum Academic Center 415
Telephone: 859-572-5461
Fax: 859-572-6088
Email Address: hisgeol@nku.edu
Web Address: http://artscience.nku.edu/departments/hisgeo/programs/blackstudies.html

Program Director: Eric Jackson, Department of History and Geography

Minor in Black Studies

The minor in black studies is a student-centered, academic, and community-service program designed to provide students with an interdisciplinary perspective on the lives of African Americans, Africans, and African people throughout the diaspora and their contributions to humanity. Specifically, the program is designed to acquaint students with:

- The historical experience of Africans and African Americans from pre-colonial Africa to contemporary times.
- Contributions of Africans and African Americans to the humanities.
- The study of the African American experience from a behavioral and social science perspective as well as contributions of African American people to these areas of study.
- The influence of the African American experience in various professional fields.

At least a C must be achieved to earn credit toward the minor.

Requirements for Minor: Black Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLS 100</td>
<td>3</td>
</tr>
<tr>
<td>HIS 106</td>
<td>3</td>
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<tr>
<td>HIS 107</td>
<td>3</td>
</tr>
<tr>
<td>HIS 431</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from the following:  
- BLS 494 Topics: Black Studies  
- HIS 310 Colonial America to 1763  
- HIS 316 Modern United States History since 1939  
- HIS 553 History of the New South  
- HIS 318 Current Events: Historical Perspective (when topic is applicable)  
- HIS 325 Early Latin American History  
- HIS 335 History of Ancient Africa  
- HIS 336 History of Modern Africa  
- HIS 380 History and Film (when topic is applicable)  
- HIS 417 Civil War and Reconstruction, 1860-1877  
- HIS 426 Historical Geography of the United States  
- HIS 527 Urban History of the United States  
- HIS 435 History of Race Relations in the Americas, 1492-1800  
- HIS 436 History of Race Relations in the Americas 1800-Present  
- HIS 438 African American Women’s History and Culture  
- HIS 444 History of Women in the United States to 1900  
- HIS 445 History of Women in the United States since 1900  
- HIS 533 Causes of the Civil War  
- HIS 335 Civil War and Reconstruction  
- HIS 339 Modern United States History since 1939  
- HIS 546 History of the American Family  
- HIS 552 History of the Old South  
- HIS 553 History of the New South  
- HIS 594 Special Topics in History (when topic is applicable)

Select one course from the following:  
- BLS 494 Topics: Black Studies
The minor in Celtic studies is designed to give students an overview of the way of life of the prehistoric, historic, and contemporary Celtic peoples throughout Europe and the world, emphasizing the "six Celtic nations" of Ireland, Scotland, Wales, Isle of Man, Cornwall (in England), and Brittany (in France) and the Celts of Iberia from the Iron Age to the 21st century. The minor also addresses the Celtic diaspora to places as far-flung in both space and time as ancient Egypt and Appalachia. To learn about Celtic peoples is to explore another avenue of what it means to be human.

The Celtic Studies program also offers students the opportunity to participate in Tuath an Ard Tire Ardaí: The Celtic Studies Club, which is active in NKU, local, and regional activities. Our program also maintains a Facebook page, which has an international following. Kentucky is rich in Celtic culture and history. Along with African Americans and German Americans, people of Celtic descent comprise one of the major ethnic groups in the metropolitan area in which NKU is located. NKU’s Celtic Studies program is the only such program in Kentucky. Students are encouraged to participate regardless of background. Each year NKU anthropology faculty present the Outstanding Student in Celtic Studies Award.

Select three courses from the following:

- ANT 301 World Patterns of Race and Ethnicity
- ANT 330 Women, Gender, and Culture
- GEO 308 Historical Geography of the United States
- GEO 310 Geography of Population
- GEO 403 Geography of Africa
- GEO 492 Directed Research: Geography (when topic is applicable)
- GEO 594 Special Topics Geography (when topic is applicable)
- HN 303 Humanity and the Imagination
- HN 306 Studies in Diversity
- HSR 500 Multicultural Family Work
- JUS 231 Race, Gender, and Crime
- PSC 338 U.S. Foreign Policy and the Developing World
- PSC 394 Topics: Politics (if relevant to black studies)
- SOC 300 Race and Ethnic Relations
- SOC 301 World Patterns of Race Ethnicity
- SWK 106 Introduction to Social Justice
- SWK 203 Social Welfare in Contemporary Society
- SWK 594 Topics: Issues in Social Welfare (multiculturalism)
- SWK 594 Topics: Issues in Social Welfare (multiculturalism)
- WGS 398 African American Women's History and Culture

Select one additional course from the three sets of options above.

Select one course from the following:

- BLS 494 Topics: Black Studies
- ENG 217 African American Literature to 1940
- ENG 218 African American Literature 1940-present
- ENG 300 American Women Poets
- ENG 305 American Women Writers
- ENG 467 Studies in African American Literature
- MUS 107 Survey of African American Music
- MUS 110 Appreciation of Jazz
- PHI 324 Africana Philosophy
- PHI 394 Topics: Philosophy (when topic is applicable)
- REL 394 Topics Religious Studies (when offered as "The Ethics and Theology of Martin Luther King, Jr., and Malcolm X")
- CMST 355 Culture and Communication
- TAR 102 Race, Gender and Theatre
- TAR 452 Special Problems: Theatre Literature (when topic is applicable)

**TOTAL CREDITS 24**

**Celtic Studies**

**Location:** Landrum Academic Center 217C  
**Telephone:** 859-572-5259  
**Fax:** 859-572-6086  
**Email Address:** simontonm@nku.edu  
**Web Address:** http://artsctne.nku.edu/departments/sapdept/anthropology/undergraduates-programs/celtic-studies-minor.html  
**Program Director:** Michael J. Simonton, Department of Sociology, Anthropology, and Philosophy

**Chinese Studies**

**Location:** Landrum Academic Center 134  
**Telephone:** 859-572-7650  
**Fax:** 859-572-7506  
**Email Address:** worldlanglit@nku.edu  
**Web Address:** http://worldlanglit.nku.edu

**Minor in Chinese Studies**

The minor in Chinese studies gives students the opportunity to gain knowledge of the Chinese people and their culture in an international context. The program, with coursework selected from several disciplines, provides a broad understanding of a nation and culture of great and growing significance to world affairs.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for
which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

### Requirements for Minor: Chinese Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHI 201</td>
<td>Intermediate Chinese I</td>
</tr>
<tr>
<td>CHI 202</td>
<td>Intermediate Chinese II</td>
</tr>
<tr>
<td>CHI 380</td>
<td>Topics in Advanced Chinese</td>
</tr>
<tr>
<td>HIS 339</td>
<td>History of China</td>
</tr>
<tr>
<td>HIS 340</td>
<td>History of Imperial China</td>
</tr>
<tr>
<td>HIS 341</td>
<td>History of Revolutionary China</td>
</tr>
<tr>
<td>PHIL 304</td>
<td>Zen</td>
</tr>
<tr>
<td>PHIL 312</td>
<td>Eastern Philosophy</td>
</tr>
</tbody>
</table>

Select two of the following or any courses from previous area not already taken:

- ANTH 380: Origins of Civilization
- ANTH 385: Peoples of East and Southeast Asia
- CHI 350: Methods of Teaching Chinese
- GEO 410: Geography of East Asia
- GEO 540: Cultural Geography of Asia
- PHIL 309: Global Ethics
- PSC 388: Politics of Asia
- PSC 480: International Law
- PSC 485: Comparative Foreign Policies
- REL 350: World Religion and Ethics

**TOTAL CREDITS** 21

### Environmental Studies

**Location**: Herrmann Science Center 150

**Telephone**: 859-572-1407

**Fax**: 859-572-5639

**Email Address**: envs@nku.edu

**Web Address**: http://envsci.nku.edu

**Program Director**: Richard L. Boyce, Department of Biological Sciences

### Minor in Environmental Studies

The minor in environmental studies provides students with a coherent academic program that is sensitive and responsive to current and projected environmental problems facing humanity on a variety of levels. As a minor program, it is intended to broaden and strengthen a number of major programs by providing a useful focus on a wide range of environmental issues.

**Requirements for Minor: Environmental Studies**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 123</td>
<td>Human Ecology</td>
</tr>
<tr>
<td>ENV 110</td>
<td>Introduction to Environmental Science and Issues</td>
</tr>
<tr>
<td>ENV 396</td>
<td>Internship: Environmental Science</td>
</tr>
<tr>
<td>ENV 494</td>
<td>Seminar: Environmental Science</td>
</tr>
</tbody>
</table>

Select 15 credit hours from the following:

- ANTH 385: Peoples of East and Southeast Asia
- CHE 112/112L: Chemistry and Society
- CHEM 323: Land Planning and Development
- CMGT 423: Planning and Design of Industrial Facilities
- ENG 326: Literature and the Environment
- ENV 115: Orientation to Environmental Science Careers
- ENV 220/220L: Protecting Water Resources with Laboratory
- ENV 294: Topics in Environmental Science
- ENV 350: Environmental Toxicology
- ENV 394: Topics in Environmental Science
- ENV 406: Ecology of the City
- GEO 314: Maps and Map Interpretation
- GEO 360: Environmental Resource Management
- GEO 340: Sustainable Food Systems
- GEO 418: Geographic Information Systems
- GLY 410: This Dangerous Earth
- HIS 465: Nature and Development in Latin America
- PHIL 302: Research Ethics
- PHI 380: Topics: Environmental Philosophy
- SOC 340: Population
- SOC 355: Sociology of the Environment

**TOTAL CREDITS** 22
European Studies Minor

**Location:** Founders Hall 436  
**Telephone:** 859-572-1961  
**Fax:** 859-572-6184  
**Email Address:** psc@nku.edu  
**Web Address:**  
http://artscience.nku.edu/departments/psccj/programs/internationalstudies.html

**Program Coordinator:** Shauna Reilly, Department of Political Science, Criminal Justice, and Organizational Leadership

This minor enables students to develop an integrated understanding of the culture, ideology, identity, geography, history, religion, social relations, and economics of Europe. The minor requires 18 credit hours, including six hours of relevant language courses.

### Requirements for Minor: European Studies  

<table>
<thead>
<tr>
<th>Select one course from the following:</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRE 101</td>
<td>Elementary French I</td>
</tr>
<tr>
<td>GER 101</td>
<td>Elementary German I</td>
</tr>
<tr>
<td>ITA 101</td>
<td>Elementary Italian I</td>
</tr>
<tr>
<td>RUS 101</td>
<td>Elementary Russian I</td>
</tr>
<tr>
<td>SPO 101</td>
<td>Elementary Spanish I</td>
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<table>
<thead>
<tr>
<th>Select one course from the following:</th>
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</thead>
<tbody>
<tr>
<td>FRE 102</td>
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<tr>
<td>GER 102</td>
</tr>
<tr>
<td>ITA 102</td>
</tr>
<tr>
<td>RUS 102</td>
</tr>
<tr>
<td>SPO 102</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Select two courses from the following from two different disciplines:</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 402</td>
</tr>
<tr>
<td>HIS 308</td>
</tr>
<tr>
<td>HIS 309</td>
</tr>
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<td>PSC 330</td>
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</table>

<table>
<thead>
<tr>
<th>Choose two courses from the following:</th>
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</thead>
<tbody>
<tr>
<td>ANT 370</td>
</tr>
<tr>
<td>ANT 376</td>
</tr>
<tr>
<td>FRE 311</td>
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<td>FRE 320</td>
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<td>FRE 480</td>
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<td>HIS 377</td>
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<tr>
<td>HIS 409</td>
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<tr>
<td>HIS 413</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS:** 18

*Check with the world languages and literatures department for applicability of this course to the European studies minor.

Additional language topics courses may fulfill the minor. Check with the world languages and literatures department for applicability of topics courses.

Evolutionary Studies

**Location:** Landrum Academic Center 217  
**Telephone:** 859-572-5259  
**Fax:** 859-572-6086  
**Email Address:** wakefieldm2@nku.edu  
**Web Address:**  
http://artscience.nku.edu/departments/psychology/undergraduate/evolutionarystudies.html

**Program Director:** Monica Wakefield, Department of Sociology, Anthropology, and Philosophy

**Other Faculty:**  
Denise Robertson, Department of Biological Sciences; Rudy Garns, Department of Sociology, Anthropology, and Philosophy; John Rockaway, Department of Physics and Geology; Sharyn Jones, Department of Sociology, Anthropology, and Philosophy

**Minor in Evolutionary Studies**

The minor in evolutionary studies is especially relevant for students seeking high-level integration of the natural sciences, behavioral sciences, and humanities using contemporary evolutionary theory as an integrative concept; for students aspiring to teach evolution in the middle and secondary schools; and for students interested in cultivating an evolutionary view of human nature.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

### Requirements for Minor: Evolutionary Studies  

<table>
<thead>
<tr>
<th>Select 6 credit hours from the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 110</td>
</tr>
<tr>
<td>ANT 394</td>
</tr>
<tr>
<td>BIO 440</td>
</tr>
<tr>
<td>BIO 440L</td>
</tr>
<tr>
<td>BIO 494</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Requirements for Minor: Evolutionary Studies</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 150</td>
<td>Biological Evolution</td>
</tr>
<tr>
<td>GLY 225</td>
<td>Prehistoric Life</td>
</tr>
<tr>
<td>PSY 301/301L</td>
<td>Evolutionary Psychology*</td>
</tr>
<tr>
<td>HNR 301</td>
<td>Prerequisite: PSY 100*</td>
</tr>
<tr>
<td>ANT 202/202L</td>
<td>Introduction to Physical Anthropology with Laboratory</td>
</tr>
<tr>
<td>PHI 348</td>
<td>Darwin and Philosophy</td>
</tr>
</tbody>
</table>

*Check with the world languages and literatures department for applicability of this course to the Evolutionary Studies minor.

Credits

BIO 150: Biological Evolution  
GLY 225: Prehistoric Life  
PSY 301/301L: Evolutionary Psychology*  
HNR 301: Prerequisite: PSY 100*  
ANT 202/202L: Introduction to Physical Anthropology with Laboratory  
PHI 348: Darwin and Philosophy
**Evolutionary Studies Capstone**

TOTAL CREDITS 3

*Special topics seminar course in anthropology, biological sciences, geology, philosophy, or psychology; course content may include directed readings, an independent or supervised empirical research experience, a conference presentation (such as a paper or poster presentation), or a term paper. Courses, projects, or research experiences used to satisfy the capstone requirement must be approved by the program director.

**Honors**

**Location:** Honors House  
**Telephone:** 859-572-5400  
**Fax:** 859-572-6091  
**Web Address:** http://honors.nku.edu  
**Email Address:** honors@nku.edu  
**Interim Director:** Belle Zembrodt

**Other Key Personnel:**  
Coordinator of Advising: David Kime  
Recruitment and Events Coordinator: Stephanie Churchill  
Administrative Specialist Brittany Smith

**Full-Time Faculty:** Ali Godel, Kristen Hornsby, April Callis, Rachel Zlatkin, Belle Zembrodt

**University Honors Scholar Distinction**

Although completing the Honors Program fulfills the secondary area graduation requirements, the honors program is much more than simply a minor. It is a program of distinction. Students who complete the program earn the designation of University Honors Scholar on their diplomas and transcripts. To complete the honors program, students must complete 21 credit hours of honors coursework. Six of the 21 credit hours will be fulfilled by completing a capstone project at the end of the honors experience. The additional 15 hours are fulfilled by interdisciplinary seminar-style courses. Students must apply to the Honors Program to be accepted. All first-year honors students must take "HNR 101: Honors First-Year Seminar." Students coming into the program as continuing NKU students or as transfer students are not required to take HNR 101.

Other courses include the 300-level honors seminars and honors sections of general education courses. Up to six hours of honors sections of general education courses may be counted toward the program. More information is available about the honors program in the academic program opportunities section of the catalog.

**International Studies**

**Location:** Founders Hall 436  
**Telephone:** 859-572-1961  
**Fax:** 859-572-6184  
**Email Address:** psc@nku.edu  
**Web Address:** http://artscience.nku.edu/departments/psccj/programs/internationalstudies.html  
**Program Coordinator:** Shauna Reilly, Department of Political Science, Criminal Justice, and Organizational Leadership

**Minor in International Studies**

An international studies minor works well with a variety of degrees. With the global marketplace, there is more call for individuals with knowledge of the world. This minor benefits those who plan careers in international business, law, journalism, government, politics, and foreign service. All lend themselves to the use of this minor.

A minor in international studies consists of 18 credit hours, including a 6-hour core, 6 credit hours of secondary requirements (from two different disciplines) and 6 credit hours of elective courses chosen in consultation with the program coordinator.

**Requirements for Minor: International Studies**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 103</td>
<td>International Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSC 470</td>
<td>Globalization</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following courses from two different disciplines:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANT 100</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>HIS 111</td>
<td>Global Viewpoints in History</td>
<td>3</td>
</tr>
<tr>
<td>ECO 200</td>
<td>Principles of Macroeconomics</td>
<td>6</td>
</tr>
<tr>
<td>GEO 101</td>
<td>World Regional Geography</td>
<td>6</td>
</tr>
<tr>
<td>PSC 102</td>
<td>Comparative Politics</td>
<td>6</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Global Inequalities</td>
<td>6</td>
</tr>
<tr>
<td>Select two 300-level or above electives for any category of the major’s elective courses.</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 25

**Latin American and Caribbean Studies**

**Location:** Founders Hall 436  
**Telephone:** 859-572-1961  
**Fax:** 859-572-6184  
**Email Address:** psc@nku.edu  
**Web Address:** http://artscience.nku.edu/departments/psccj/programs/interdisciplinaryminors/latinamericancaribbean.html  
**Program Coordinator:** Shauna Reilly, Department of Political Science and Criminal Justice

**Minor in Latin American and Caribbean Studies**

This minor enables students to develop an integrated understanding of the history, culture, and politics of Latin America and the Caribbean area. The minor requires 18 credit hours, including Spanish 101 and 102, two courses from different disciplines, and two electives. All students pursuing this minor should acquire some competence in Spanish.

**Requirements for Minor: Latin American and Caribbean Studies**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPI 101</td>
<td>Elementary Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SPI 102</td>
<td>Elementary Spanish II</td>
<td>3</td>
</tr>
<tr>
<td>Select two courses from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANT 245/</td>
<td>Peoples of Latin America and the Caribbean</td>
<td></td>
</tr>
<tr>
<td>SOC 245</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIS 326</td>
<td>Modern Latin American History</td>
<td>6</td>
</tr>
<tr>
<td>PSC 335</td>
<td>Politics of Latin America</td>
<td>6</td>
</tr>
<tr>
<td>GEO 406</td>
<td>Geography of Latin America</td>
<td>6</td>
</tr>
<tr>
<td>Select two courses from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANT 360</td>
<td>Mesoamerican Indians</td>
<td></td>
</tr>
<tr>
<td>ANT 245/</td>
<td>Peoples of Latin America and the Caribbean</td>
<td></td>
</tr>
<tr>
<td>SOC 245</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRE 322</td>
<td>French Drama*</td>
<td></td>
</tr>
<tr>
<td>FRE 323</td>
<td>French Prose Fiction*</td>
<td></td>
</tr>
<tr>
<td>FRE 330</td>
<td>Studies in French Language Cinema*</td>
<td></td>
</tr>
<tr>
<td>FRE 340</td>
<td>Business French*</td>
<td></td>
</tr>
<tr>
<td>FRE 480</td>
<td>Studies in French Culture*</td>
<td></td>
</tr>
<tr>
<td>FRE 481</td>
<td>Studies in French Literature*</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 18
**Medieval and Renaissance Studies**

**Location:** Landrum Academic Center 415  
**Telephone:** 859-572-5461  
**Fax:** 859-572-6088  
**Email Address:** hisgeo1@nku.edu  
**Web Address:** http://artscience.nku.edu/departments/hisgeo/programs/medieval-renaissance.html  
**Program Coordinator:** William Landon, Department of History and Geography

**Minor in Medieval and Renaissance Studies**

The minor in medieval and Renaissance studies is historical in perspective with an emphasis on cultures and civilizations of Western Europe from the fifth to the 16th centuries. The minor is interdisciplinary in scope, with courses from art, English, history, language, music, philosophy, and political science included in its curriculum. The medieval and Renaissance studies minor introduces students to methods, materials, and texts reflecting the human dimension of medieval cultures and the living heritage of medieval and Renaissance cultures in modern civilizations.

The minor in medieval and Renaissance studies requires completion of 21 credit hours in designated courses. "HIS 303: Europe in the Middle Ages" and "HIS 304: Renaissance Europe" are required, and the remaining 15 credit hours must be selected from three disciplines and must include at least one semester of the study of a foreign language included in the list below.

### Requirements for Minor: Medieval and Renaissance Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 303</td>
<td>Europe in the Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIS 304</td>
<td>Renaissance Europe</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 15 credit hours from the following (must include at least 3 credit hours in a foreign language):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARI 101</td>
<td>Elementary Arabic I</td>
<td>3</td>
</tr>
<tr>
<td>ARI 102</td>
<td>Elementary Arabic II</td>
<td>3</td>
</tr>
<tr>
<td>GEO 412</td>
<td>Geography of South Asia and the Middle East</td>
<td></td>
</tr>
<tr>
<td>HIS 329</td>
<td>History of the Middle East and North Africa</td>
<td>6</td>
</tr>
<tr>
<td>PSC 380</td>
<td>Politics of the Middle East</td>
<td></td>
</tr>
</tbody>
</table>

Select two courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 313</td>
<td>Middle Eastern Literature</td>
<td></td>
</tr>
<tr>
<td>ENG 315</td>
<td>The Bible as Literature</td>
<td></td>
</tr>
<tr>
<td>GEO 412</td>
<td>Geography of South Asia and the Middle East</td>
<td></td>
</tr>
<tr>
<td>HIS 329</td>
<td>History of the Middle East and North Africa</td>
<td>6</td>
</tr>
<tr>
<td>PSC 380</td>
<td>Politics of the Middle East</td>
<td></td>
</tr>
<tr>
<td>REL 306</td>
<td>Introduction to Judaism</td>
<td></td>
</tr>
<tr>
<td>REL 305</td>
<td>Islam</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS:** 21

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**Middle Eastern and North African Studies**

**Location:** Founders Hall 436  
**Telephone:** 859-572-1961  
**Fax:** 859-572-6184  
**Email Address:** psc@nku.edu  
**Web Address:** http://artscience.nku.edu/departments/psccj/programs/interdisciplinaryminors/mideastafrican.html  
**Program Coordinator:** Shauna Reilly, Department of Political Science, Criminal Justice, and Organizational Leadership

**Minor in Middle Eastern and North African Studies**

The minor in Middle Eastern and North African studies offers students the opportunity to gain knowledge of various aspects of the peoples of the Middle East and North Africa. The program, selected from several disciplines, provides a broad appreciation of the societies, literatures, cultures, religions, and history of the Middle East and North Africa and their significance for the modern world. To complete the minor, students must earn a total of 18 hours selected from the courses listed below. Applicable course prerequisites must be met.

### Requirements for Minor: Middle Eastern and North African Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARI 101</td>
<td>Elementary Arabic I</td>
<td>3</td>
</tr>
<tr>
<td>ARI 102</td>
<td>Elementary Arabic II</td>
<td>3</td>
</tr>
<tr>
<td>GEO 412</td>
<td>Geography of South Asia and the Middle East</td>
<td></td>
</tr>
<tr>
<td>HIS 329</td>
<td>History of the Middle East and North Africa</td>
<td>6</td>
</tr>
<tr>
<td>PSC 380</td>
<td>Politics of the Middle East</td>
<td></td>
</tr>
<tr>
<td>REL 306</td>
<td>Introduction to Judaism</td>
<td></td>
</tr>
<tr>
<td>REL 305</td>
<td>Islam</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL CREDITS:** 18
Teaching Certificate in Arabic

Students seeking teaching certification in Arabic should contact the chair of world languages and literatures department. If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

<table>
<thead>
<tr>
<th>Requirements for Certificate: Arabic</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARI 201 Intermediate Arabic I</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisites: ARI 101 and ARI 102</td>
<td></td>
</tr>
<tr>
<td>ARI 202 Intermediate Arabic II</td>
<td>3</td>
</tr>
<tr>
<td>ARI 350 Methods of Teaching Arabic</td>
<td>3</td>
</tr>
<tr>
<td>ARI 380 Topics in Advanced Arabic including one linguistics course</td>
<td>15</td>
</tr>
</tbody>
</table>

Select two courses from the following:
- ENG 313 Middle Eastern Literature
- HIS 329 History of the Middle East and North Africa 6
- PSC 394 Topics: Politics (if international focus)
- REL 305 Islam

**TOTAL CREDITS 30**

Native American Studies

**Location:** Landrum Academic Center 217C  
**Telephone:** 859-572-5259  
**Fax:** 859-572-6066  
**Email Address:** neelys@nku.edu  
**Web Address:** http://arts.nku.edu/departments/sapdept/anthropology/undergraduate/e-programs/native-american-studies-minor.html

**Program Director:** Charlotte Neely, Department of Sociology, Anthropology, and Philosophy

**Minor in Native American Studies**

Native American studies has as its focus the prehistory, history, contemporary situation, and way of life of Native Americans (American Indians). For more than 95 percent of the time humans have lived in the Americas, the only people here have been Native Americans. To understand the history and cultures of the Americas, one must start with Native Americans. Far from disappearing either physically or culturally, Native Americans today are increasing in numbers and represent hundreds of vibrant and unique ways of life. To learn about Native Americans is to explore yet another avenue of what it means to be human. The commonwealth of Kentucky is rich in Native American culture. NKU is located in the heart of the prehistoric Ohio Valley mound-builder cultures of Adena, Hopewell, and Fort Ancient, on lands claimed by both the historic Shawnee and Cherokee. The university is only about 50 miles from the soon-to-be-built Kentucky Center for Native American Arts and Culture and is recognized by the Kentucky Native American Heritage Commission. NKU’s Native American studies program is the only such program in Kentucky. There are two Native American student organizations at NKU: First Nations Student Organization and Kiksuya. Native American studies minors are encouraged to participate in both. Each year NKU anthropology faculty present the Outstanding Student in Native American Studies Award.

NKU provides students with opportunities to do Native American studies outside the classroom and develop résumé-worthy skills important in the job quest. Through Kiksuya, every spring NKU students can go to a reservation in the Dakotas. Every summer students also have the opportunity to participate in an archaeological dig at a prehistoric Native American village site in Northern Kentucky. Students also have opportunities to work on museum exhibits.

**Requirements for Minor: Native American Studies**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 345 Native American Social Issues</td>
<td>3</td>
</tr>
<tr>
<td>ANT 230 North American Indians</td>
<td>3</td>
</tr>
<tr>
<td>ANT 231 Modern American Indians</td>
<td>3</td>
</tr>
<tr>
<td>ANT 350 North American Archaeology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three courses from the following (courses chosen must be in at least two different disciplines):
- SOC 301 World Patterns of Race Ethnicity
- ANT 318 Prehistoric Ecology
- ANT 331 Women in Prehistory
- ANT 352 Archaeology of Mesoamerica
- ANT 358 Art and Culture
- ANT 360 Mesoamerican Indians
- ENG 306 Multicultural American Literature
- HIS 357 History of Indians of the United States
- ANT 315 Archaeological Excavation Methods
- SOC 394 Topics: Sociology (with permission, if Native American emphasis)
- ANT 307 Museum Methods (with permission, if Native American emphasis)
- ANT 394 Topics: Anthropology (with permission, if Native American emphasis)
- HIS 394 Special Topics in History (with permission, if Native American emphasis)
- REL 394 Topics: Religious Studies (with permission, if Native American emphasis)
- Other appropriate courses (with permission, if Native American emphasis) 9

**TOTAL CREDITS 21**

Neuroscience

**Location:** Mathematics-Education-Psychology Center 301  
**Telephone:** 859-572-5310  
**Fax:** 859-572-6085  
**Email Address:** bardgett@nku.edu  
**Web Address:** http://arts.nku.edu/departments/psychology/undergraduate/neuroscience.html

**Program Director:** Mark Bardgett, Department of Psychological Science  
**Other Faculty:**  
- Christine Curran, Department of Biological Sciences, Judy Gains, Department of Sociology, Anthropology, and Philosophy, Kristi Haik, Department of Biological Sciences, Kevin Kirby, Department of Computer Science, Cecile Marczinski, Department of Psychological Science

**Minor in Neuroscience**

Neuroscience represents an emerging integrative scientific discipline that seeks to: (1) better understand nervous system structure and function, and (2) use this knowledge to better understand mental processing and behavior. In addressing these goals, neuroscience borrows from an array of disciplines including physics, chemistry, biology, psychology, computer science, philosophy, anthropology, mathematics, pharmacology, and education. In turn, the knowledge gained through neuroscience research can advance the fields of medicine, biology, pharmacology, psychology, education, social work, forensics, marketing, and computer science, among others.

Students participating in the minor program will be introduced to a variety of perspectives on the field of neuroscience. These perspectives include neurobiology, evolution of mind/brain, theories of mind, behavioral neuroscience, psychopharmacology, cognitive science, computational neuroscience, animal behavior, linguistics, and perception. The neuroscience minor may be an attractive addition to a major in natural science, mathematics, computer science, social science, or humanities, and it should
enable students to address issues and dilemmas in their major field from a neuroscience perspective. It may also better prepare students who are considering graduate study in fields impacted by neuroscience, such as medicine, psychology, education, chemistry, biology, pharmacology, computer science, philosophy, and social work.

In choosing electives, students must choose two from outside of their major. Psychology majors can apply only six hours of minor coursework to their major. Students must take one core elective course — it is strongly recommended that students consider using the other core elective courses as “general” electives. Electives may also include special topics courses, supervised research, independent study, or honors projects that are taken for credit, as long as the work focuses on some aspect of neuroscience. Students wishing to apply these courses to their minor requirements must receive approval from the director of the neuroscience program. Students must earn a grade of C or better in all courses applied toward certification of the minor.

<table>
<thead>
<tr>
<th>Requirements for Minor: Neuroscience</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 208 and Human Anatomy and Physiology I and Human Anatomy and Physiology I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIO 208L and Human Anatomy and Physiology I Laboratory -- OR -- Mammalian Anatomy and Physiology I and Mammalian Anatomy and Physiology I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIO 425 and NEU 493</td>
<td>1</td>
</tr>
<tr>
<td>BIO 425L</td>
<td>4</td>
</tr>
<tr>
<td>PHI 345 Philosophy of Mind</td>
<td>3</td>
</tr>
<tr>
<td>PHI 340 PHI 340 Neuroethics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 311 Biopsychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from the following:
- BIO 402 and Advanced Neurobiology and Advanced Neurobiology Laboratory
- BIO 402L Advanced Neurobiology Laboratory
- BIO 440 and Animal Behavior
- BIO 440L Animal Behavior Laboratory
- PSY 338 Cognitive Processes
- PSY 360 Psychopharmacology

Select three courses totaling 9 hours or more from the following:
- ANT 275 Language and Culture
- BIO 159 Biological Evolution
- BIO 209 and Human Anatomy and Physiology II and Human Anatomy and Physiology Laboratory
- BIO 209L Human Anatomy and Physiology Laboratory
- BIO 305 and Developmental Biology and Developmental Biology Laboratory
- BIO 349 and Genetics and Genetics Laboratory
- BIO 349L Advanced Biology of the Cell
- BIO 400 and Advanced Molecular Biology and Advanced Molecular Biology Laboratory
- BIO 400L Advanced Molecular Biology Laboratory
- BIO 402L Advanced Neurobiology Laboratory
- BIO 402 and Advanced Neurobiology and Advanced Neurobiology Laboratory
- BIO 407 and Ornithology and Ornithology Laboratory
- BIO 407L Ornithology Laboratory
- BIO 425 and Mammalian Anatomy and Physiology II and Mammalian Anatomy and Physiology II Laboratory
- BIO 426 and Mammalian Anatomy and Physiology II and Mammalian Anatomy and Physiology II Laboratory
- BIO 440 and Animal Behavior and Animal Behavior Laboratory
- BIO 440L Animal Behavior Laboratory
- BIO 467 Endocrinology
- CSC 325 Introduction to Neural Networks and Artificial Intelligence
- ENG 381 Introduction to Linguistics
- PHI 265 Logic
- PHI 306 Philosophy and Science

**Total Credits 23**

### Popular Culture Studies

**Location:** Griffin Hall 400  
**Telephone:** 859-572-5291  
**Fax:** 859-572-5435  
**Email Address:** communication@nku.edu  
**Web Address:** [http://informatics.nku.edu/departments/communication/programs/pop.html](http://informatics.nku.edu/departments/communication/programs/pop.html)  
**Program Director:** Yasue Kuwahara, Department of Communication

### Minor in Popular Culture Studies

The minor in popular culture studies offers students an opportunity to explore their cultural environment by examining aspects of cultural artifacts and events and relating them to their specific interests. The program is designed to equip the student with tools to analyze the world from the standpoint of popular culture by introducing such concepts as cultural beliefs and values, icons, heroes, rituals, stereotypes, and popular art. The interdisciplinary program seeks to broaden the base of a student’s college education by using the courses of several disciplines to provide a wide, comprehensive approach to knowledge. In consultation with an advisor, students will identify a particular topic of concentration or theme and then select courses from a variety of course offerings. Due to the unusual nature of the program, students interested in the minor must meet with the program director prior to declaring the minor in order to establish their individual programs.

<table>
<thead>
<tr>
<th>Requirements for Minor: Popular Culture Studies</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMB 100 Media Literacy</td>
<td>3</td>
</tr>
<tr>
<td>ENG 365 American Folklore</td>
<td>3</td>
</tr>
<tr>
<td>HIS 380 History and Film</td>
<td>3</td>
</tr>
<tr>
<td>POP 369 Folklore and Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>POP 205 Introduction to Pop Culture</td>
<td>3</td>
</tr>
<tr>
<td>POP 499 Independent Study</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three courses from the following. The courses must be taken from at least two different categories and must have at least two different course designators. At least 6 credit hours must be taken at the 300 level or above.

**American Culture and Society**
- EDU 316 Racism and Sexism in Educational Institutions
- EMB 105 Race, Gender and the Mass Media
- EMB 311 History of Broadcasting

**Philosophy and Science**
- PHI 315 Knowledge and Reality
- PHI 340 Neuroethics
- PHI 345 Philosophy of Mind

**Psychology**
- PSY 309 Psychology of Perception
- PSY 309L Psychology of Perception Laboratory
- PSY 311L Biopsychology Laboratory
- PSY 333 Abnormal Psychology
- PSY 337 Animal Learning

**Biology**
- BIO 208 and BIO 208L
- BIO 305 and BIO 305L
- BIO 402 and BIO 402L
- BIO 440 and BIO 440L

**Literature**
- ENG 381 Introduction to Linguistics
- PHI 306 Philosophy and Science
Religious Studies

Location: Landrum Academic Center 217C
Telephone: 859-572-5259
Fax: 859-572-6088
Email Address: religiousstudies@nku.edu
Web Address: http://religious-studies.nku.edu
Co-directors: Augustine Frimpong-Mansoh
Other Key Personnel:
Department Coordinator: Mindy Berry

Minor in Religious Studies

Available in traditional and fully-online formats.
NKU’s interdisciplinary religious studies program offers a 21-credit-hour minor designed for students who are especially interested in religious studies or who wish for career purposes to add to their general education background.

Religious studies is the scholarly examination of the widespread and diverse phenomena of human religious experiences, the expression of these experiences in systems of belief and in institutions, and their interaction with culture and society. Religion embodies some of humanity’s most profound and enduring attempts to answer perennial questions about the nature of ultimate reality and about human nature and destiny. An important dimension of religious studies at NKU is its incorporation of cognate courses from other disciplines, including philosophy, history, geography, sociology, psychology, literature, anthropology, and women’s and gender studies.

Religious studies provides a factual and analytical understanding of religion; sympathetic understanding of a wide range of religious traditions, cultures
and values; and an introduction to the relevant literature, vocabulary, and methods used in the scholarly study of religion. This sort of an appreciation of religion is an important component in an individual’s education. It is also relevant to many professions and fields including education, law, medicine, nursing, ministry, and human services, and to students interested in graduate studies in religious studies.

Students must earn a C- or better in all courses chosen to meet a category requirement.

### Requirements for Minor: Religious Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 200</td>
<td>World Religions and Cultures</td>
<td>3</td>
</tr>
</tbody>
</table>

**Religious Traditions and Sacred Texts** — select 3 credit hours from the following:

- REL 302 Survey of the Hebrew Bible (Old Testament)
- REL 303 Survey of New Testament
- REL 305 Islam
- REL 306 Introduction to Judaism
- REL 307 Survey of Christianity
- PHI 304 Zen
- PHI 312 Eastern Philosophy

**Philosophical, Ethical, and Theological Perspectives** — select 3 credit hours from the following:

- REL 330 Contemporary Religious Thought
- REL 350 World Religions and Ethics
- REL 360 Human Religious Experience
- REL 370 Religion and Science
- REL 394 Topics: Religious Studies (when topic applies)
- PHI 350 Philosophy of Religion

**Historical, Linguistic, Literary, and Scientific Perspectives** — select 3 credit hours from the following:

- REL 301 Ancient Religions
- REL 320 Religion in America
- ANT 320 Religion and Culture
- ENG 215 Greek and Roman Mythology
- ENG 315 The Bible as Literature
- ENG 324 Holocaust Literature
- GEO 330 Geography of Religion
- HIS 300 Ancient Near East and Greece to the Macedonian Conquest
- HIS 301 The Hellenistic World and Rome to the Death of Constantine
- HIS 303 Europe in the Middle Ages
- HIS 305 Reformation Europe
- HIS 330 Jewish History
- HIS 414 The Holocaust
- SOC 430 Sociology of Religion

Select 9 additional credit hours from among all religious studies courses except those previously chosen to count for a category requirement.

**TOTAL CREDITS 21**

At least 20 percent of the total required hours for the minor must be taken at NKU.

Topics courses (with numbers ending with -94) in disciplines such as REL, PHI, ANT, HIS, ENG, PSY, SOC with topics bearing upon religious studies may also count toward the minor. Check with your advisor.

Courses listed in more than one category may count in only one or the other. Students who want to have either a broader or deeper background in religious studies than the minor at NKU affords may take advantage of the Greater Cincinnati Consortium of Colleges and Universities or the Cooperative Center for Study Abroad.

### Social Justice Studies

**Location**: Mathematics-Education-Psychology Center 203

**Telephone**: 859-572-5804

**Fax**: 859-572-6592

**Email Address**: riffeh@nku.edu

**Web Address**: http://coehs.nku.edu/programs/nkusocialwork/bsw/minor.html

**Program Director**: Holly Riffe, Department of Counseling, Social Work, and Leadership

**Advisor**: Deb Henry

#### Minor in Social Justice Studies

The interdisciplinary social justice minor is concerned with the promotion of a just society with an emphasis on human rights. The goal of social justice is to establish a society in which all people are guaranteed certain and basic human and legal rights and have access to opportunities and resources to achieve valued economic, political, and social goals.

**Requirements for Minor: Social Justice Studies**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWK 106</td>
<td>Introduction to Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>ANT 201</td>
<td>World Cultures</td>
<td>3</td>
</tr>
<tr>
<td>HIS 557</td>
<td>History of Indians in the United States</td>
<td>3</td>
</tr>
<tr>
<td>ANT 330</td>
<td>Women, Gender, and Culture</td>
<td>3</td>
</tr>
<tr>
<td>WGS 250</td>
<td>Introduction to Gender Studies</td>
<td>3</td>
</tr>
<tr>
<td>SOC 300</td>
<td>Race and Ethnic Relations</td>
<td>3</td>
</tr>
<tr>
<td>BLS 100</td>
<td>Introduction to Black Studies</td>
<td>3</td>
</tr>
<tr>
<td>SWK 565</td>
<td>Compassion, Empathy and Forgiveness</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two courses from the following:

- ANT 100 Introduction to Cultural Anthropology
- ANT 201 World Cultures
- ANT 231 Modern American Indians
- ANT 301 World Patterns of Race Ethnicity
- SOC 301
- ANT 325 Applied Anthropology
- ANT 330 Women, Gender, and Culture
- ANT 345 Environmental Anthropology
- ANT 372 Peasant Societies
- ANT 375 Anthropology of Aging
- ANT 386 Economy, Wealth, and Culture
- GEO 100 Global Viewpoints on Geography and the Human Landscape
- GEO 340 Sustainable Food Systems
- HIS 557 History of Indians in the United States
- HIS 551 History of Appalachia Since 1877
- JUS 231 Race, Gender, and Crime
- PHI 323 Peace and War
- REL 350 Religion and Ethics
- SOC 300 Race and Ethnic Relations
- SOC 301 World Patterns of Race Ethnicity
- WGS 310 Women, Wages, and Work
- WGS 150 Introduction to Contemporary Gender Issues
- WGS 250 Introduction to Gender Studies

**Total Credits 21**
Sub-Saharan African Studies Minor

**Location:** Founders Hall 436  
**Telephone:** 859-572-1961  
**Fax:** 859-572-6184  
**Email Address:** psc@nku.edu  
**Web Address:** http://artscience.nku.edu/departments/psci/programs/interdisciplinaryminors.html  
**Program Coordinator:** Shauna Reilly, Department of Political Science, Criminal Justice and Organizational Leadership

**Minor in Sub-Saharan African Studies**

This minor enables students to develop an integrated understanding of culture, ideology, identity, geography, history, religion, social relations, and economics of sub-Saharan Africa. The minor requires 15 credit hours.

**Requirements for Minor: Sub-Saharan African Studies**

Select five courses from the following:

- **ANT 309** Peoples of Africa  
- **GEO 403** Geography of Africa  
- **HIS 335** History of Ancient Africa  
- **HIS 336** History of Modern Africa  
- **PHI 324** Africana Philosophy  
- **PSC 366** Politics of Africa  

**Total Credits** 15

Women’s and Gender Studies

**Location:** Landrum Academic Center 415  
**Telephone:** 859-572-5461  
**Fax:** 859-572-6088  
**Email Address:** hisgeo1@nku.edu  
**Web Address:** http://artscience.nku.edu/departments/hisgeo/wgstudies.html  
**Program Director:** Debra Meyers, Department of History and Geography  

**Minor in Women’s and Gender Studies**

Available in both traditional and fully-online formats.

Women’s and gender studies explores the intersections of gender, race, and other categories of difference via a feminist lens. WGS focuses on the construction and representation of identities, behaviors, and social relations within culturally specific institutions and within a global context. WGS courses stress the understanding of self and others and the importance of social justice, activism, and community engagement. This minor requires a total of 18 credit hours, at least 12 of which must be 300-level or above. Students must achieve a C or better in all courses. This minor may be completed online as well as in the traditional classroom setting. Required courses include WGS 150, WGS 310, and the capstone experience, WGS 594. Students may complete the remaining credit hours with WGS 300-level or above courses or director-approved courses from other disciplines.

**Focus in Women’s and Gender Studies**

The women’s and gender studies focus requires a total of 12 credit hours (four courses) of coursework at the 300 level or above. Students must achieve a C or better in all courses that apply to the focus.

Interdisciplinary Certificate

**Geographic Information Systems**

**Location:** Griffin Hall 400  
**Telephone:** 859-572-6930  
**Fax:** 859-572-5398  
**Email Address:** gis1@nku.edu  
**Web Address:** http://gis.nku.edu  
**Program Director:** Hongmei Wang, Department of Computer Science

**Certificate in Geographic Information Systems**

A geographic information system is a computer-based system for capturing, storing, querying, analyzing, and displaying geographically referenced data. It helps manage descriptions of locations and characteristics of spatial features, such as roads or land parcels. GIS has been used for natural resource management, crime analysis, emergency management, and transportation applications. New applications have resulted from the integration of GIS with other new technologies, such as global-positioning systems and wireless networks.

The NKU undergraduate certificate program in GIS is an interdisciplinary program offered through the departments of history and geography; computer science; and political science, criminal justice, and organizational leadership. It is designed for individuals whose career paths will require them to regularly use GIS technology in their work.

**Requirements for Certificate: Geographic Information Systems**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 415</td>
<td>Cartography 3</td>
</tr>
<tr>
<td>GEO 418</td>
<td>Geographic Information Systems 3</td>
</tr>
</tbody>
</table>

Select one course from the following:

- GEO 419 Remote Sensing of the Environment  
- GEO 518 Geographic Information Analysis  
- CIT 352 Geographic Databases  
- GEO 552 Spatial Databases

Select two courses from the following:

- GEO 314 Maps and Map Interpretation  
- GEO 419 Remote Sensing of the Environment  
- GEO 518 Geographic Information Analysis  
- CIT 352 Geographic Databases  
- CSC 440 Software Engineering  
- CSC 450 Database Management Systems  
- CSC 480 Computer Graphics  
- CIT 472 Database Administration  
- BIS 330 IT Project Management

**Total Credits** 15
**Course Descriptions**

### Course Description Notes

Northern Kentucky University has established abbreviations for its various disciplines. These abbreviations, which are printed next to the name of each discipline in the following course descriptions, should be used in preparing course schedules and at other times when referring to specific courses.

Following course titles in parenthesis is the number of semester hours of credit in the course. Listed below the course title are the number of classroom and lab/studio hours in the course, course prerequisites and co-requisites, and the semesters in which the course is taught.

Many courses satisfy NKU general education requirements under guidelines of the Kentucky Transfer Policy. If a particular course is approved for general education credit, a two-letter general education category designation follows the course title. The category for which the course is approved is listed in full beneath the course description. The general education category designations are:

- OC – Oral Communication
- WC – Written Communication
- AH – Arts and Humanities
- QR – Quantitative Reasoning
- NS – Natural Sciences
- SB – Social and Behavioral Sciences

Please refer to the General Education section of this catalog for complete information.

The university reserves the right to withdraw or modify courses of instruction at any time.

### Accounting Courses (ACC)

**ACC 200 Principles of Accounting** (3 credits)

*Hours: 3 classroom + 0 lab/studio*

- Prerequisites: Sophomore standing; completion of one college level mathematics course; completion of computer competence requirement as determined by student’s major, or completion of BIS 101 or INF 101.
- Taught: Fall, spring, and summer

   Measurement of business transactions through the accounting cycle and communication of results to external parties through the preparation of the income statement, statement of shareholders’ equity, balance sheet, and the statement of cash flows. Financial statement analysis as well as GAAP based measurement (valuation) of cash, receivables, inventory, long-term assets, current and long-term liabilities, stockholders’ equity.

**ACC 201 Principles of Accounting II-Managerial (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

- Prerequisites: ACC 200 and sophomore standing.
- Taught: Fall, spring, and summer

   Management’s use of accounting information for decision making and planning. Introduction to management accounting terms and concepts. Elements of product costing; assessment of various costing systems such as actual, normal, and standard costing, and variable versus absorption costing. Various topics such as outsourcing decisions, maximizing constraints, cost-volume-profit analysis, cost function estimation, activity-based costing, and management’s preparation and use of budgets and analysis of variances.

**ACC 202 Accounting Laboratory (1 credit)**

*Hours: 1 classroom + 0 lab/studio*

- Prerequisites: Sophomore standing and completion of a college-level mathematics course and ACC 200 with a C or better.
- Taught: Fall and spring

   Practice of technical accounting skills including recordkeeping and financial statement preparation; introduction to the profession.

**ACC 300 Intermediate Accounting I (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

- Prerequisites: ACC 200, ACC 201, and ACC 202 with grades of C or better, junior standing.
- Taught: Fall and spring

   Financial accounting theory and practice in determination of income and valuation of assets, liabilities, and equity for external reporting; preparation of financial statements; official pronouncements on generally accepted accounting principles; alternatives to these principles including international accounting standards; accounting cycle; financial assets such as cash, marketable securities, receivables, inventories, and prepayments; long-term assets.

**ACC 308 Financial Statement Analysis (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

- Prerequisites: ACC 200 and ACC 201.
- Taught: Fall and spring

   This course is designed to prepare students to analyze, interpret and use financial statements effectively. This will be accomplished using four steps: (1) analyzing the industry and economic environment in which the firm operates; (2) analyzing recent financial and market performance of the firm using financial statement statements and stock market information; (3) synthesizing this material in a coherent manner; and (4) writing and presenting a report on the financial condition of a company and its prospects to classmates and faculty. Cannot be taken for credit by students with ACC 300 credit.

**ACC 310 Accounting Information Systems (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

- Prerequisites: C or better in ACC 200, ACC 201, ACC 202; IFS 105; MAT 112; junior standing.
- Taught: Fall and spring

   Study of complex accounting systems including the steps of the accounting cycle from documents through the preparation of financial statements within the revenue, expenditure, conversion, and financial reporting cycles, the importance of internal controls and the impact of technology on the accounting system. The nature of accounting and business ethics as related to collecting, reporting, and auditing accounting data. Open only to students certified as majoring in business or by consent of instructor.
ACC 320 Tax Planning (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing; declared major in any bachelor’s program; ACC 200, 201 and ACC 300 with grade of C or better and BUS 230. Taught: Fall, spring, and summer.
Impact of income tax on business entities, including corporations, S corporations, partnerships, limited liability companies and sole proprietors; gross income deductions, accounting periods, accounting methods and property transactions.

ACC 330 Fraud Examination (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ACC 310 with a grade of C or better. Taught: Summer only.
The principles and methodology of fraud detection and deterrence. The course includes such topics as skimming, cash larceny, check tampering, register disbursement schemes, billing schemes, payroll and expense reimbursement schemes, non-cash misappropriation, corruption, accounting principles and fraud, fraudulent financial statements, and interviewing witnesses.

ACC 350 Management Cost Accounting I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing, STA 205 or STA 212, C or better in ACC 200, ACC 201 and ACC 202. Taught: Fall and spring.
Cost accounting concepts, techniques, and procedures relating to financial reporting; decision-making and responsibility accounting to help management plan and control operations.

ACC 394 Topics: Financial Accounting (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing, ACC 200 and ACC 201 with grades of C or better. Taught: Variable, check with department.
Specialized topics of faculty and student interest. Topics vary and prerequisites may be specified depending upon topics. May be taken twice for elective credit if topics differ.

ACC 396 Internship: Accounting (1-3 credits)
Hours: 0 classroom + 3 lab/studio
Prerequisites: Completion of ACC 200 and ACC 201 with grades of C or better. Taught: Fall, spring, and summer.
Supervised work experience related to accounting and coordinated by employer in conjunction with a member of accounting faculty. Repeatable for a maximum of 12 semester hours. Graded pass/fail.

ACC 400 Auditing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ACC 301 and ACC 310 with grades of C or better; junior standing. Taught: Fall and spring.
Principles, standards, and procedures in conduct of an audit by CPA; functions and responsibilities; internal control; statistical sampling, audit report; special problems of auditing electronic data-processing systems; account verification; ethics. Open only to students certified as majoring in business or by consent of instructor. Assessment test is given.

ACC 420 Advanced Tax Planning (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing; certified major in business; ACC 320 with grade of C or better. Taught: Variable, check with department.
Federal tax consequences of corporate redemptions, liquidations, reorganizations, consolidated tax returns; partnership distributions and terminations; multi jurisdictional considerations, international and multistate taxation; individual tax planning, deferred compensation, retirement planning, estate and gift taxation, succession planning.

ACC 430 Advanced Accounting (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ACC 301 with a C or better; junior standing and certified major in business. Taught: Variable, check with department.
State and local governments, emphasizing fund accounting concepts, government-wide financial reporting, and the relation between the two reporting practices; not-for-profit entities; foreign operations, with a focus on foreign currency transactions and translation of financial statements for foreign affiliates; segments; interim reporting; partnerships.

ACC 450 Management Cost Accounting II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ACC 350 with a grade of C or better; certified major in business. Taught: Variable, check with department.
Continuation of ACC 350. Application of quantitative techniques (e.g., statistical and O.R. models to man-agerial problems; behavioral implications of budgetary control systems. Open only to students certified as majoring in business or by consent of instructor.

ACC 499 Independent Study: Accounting (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Senior standing and consent of instructor. Taught: Variable, check with department.
Independent project or intensive study/research with faculty guidance. Open only to students certified as majoring in business or by consent of instructor.

ACC 500 Auditing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ACC 600. Taught: Fall and spring.
Principles, standards, and procedures in conduct of an audit by CPA; functions and responsibilities; internal control; statistical sampling, audit report; special problems of auditing electronic data processing systems; account verification; ethics. Open only to students certified as majoring in business or by consent of instructor. Assessment test is given.

ACC 520 Tax Planning (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to the MACC program, ACC 200 and ACC 201, or permission of MACC director. Taught: Fall, spring, and summer.
Impact of income tax on business entities, including corporations, S corporations, partnerships, limited liability companies and sole proprietors; gross income deductions, accounting periods, accounting methods and property transactions.

Anthropology Courses (ANT)

ANT 100 Introduction to Cultural Anthropology - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, winter, spring and summer.
Definition and nature of culture, its content and structure (e.g., kinship, politics, and religion); basic field methods; emphasis on non-Western cultures.
General education credit: Individual and Society, General education credit: Global Viewpoints

ANT 100H Honors Introduction to Cultural Anthropology - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only.
Definition and nature of culture, its content and structure (e.g., kinship, politics, and religion); basic field methods; emphasis on non-Western cultures.
General education credit: Individual and Society, General education credit: Global Viewpoints

ANT 110 Introduction to Archaeology - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring.
Change and development of prehistoric cultures from 3 million B.C. to early civilizations; selected Old World and New World cultures. Basic archaeological methods.
General education credit: Individual and Society
ANT 114 Great Archaeological Sites - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Summer only
Great archaeological sites and discoveries around the world and their significance to global heritage.
General education credit: Global Viewpoint

ANT 194 Topics: Anthropology (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
A newer development in any phase of anthropology. See Schedule of Classes for current topic.

ANT 201 World Cultures - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Survey of world cultures, primarily non-literate, using various anthropological approaches; development from simple to more complex cultural systems.
General education credit: Cultural Pluralism

ANT 202 Introduction to Physical Anthropology (3 credits)
Hours: 3 classroom + 0 lab/studio
Co-requisites: ANT 202L
Taught: Variable, check with department
Human genetics, primate behavior, humankind as biological organisms, relation of humans to culture, human evolution.

ANT 202L Introduction to Physical Anthropology Laboratory (1 credit)
Hours: 0 classroom + 2 lab/studio
Co-requisites: ANT 202
Taught: Variable, check with department
Laboratory focusing on human genetics, primate behavior, and human osteology.

ANT 210 Introduction to Archaeological Methods and Theory (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Methods of archaeological excavation and analysis; how archaeologists interpret excavated material and reconstruct prehistoric ways of life.

ANT 230 North American Indians - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Origin; traditional ways of life; current position in American society.
General education credit: Cultural Pluralism

ANT 231 Modern American Indians - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Current problems faced by Indian populations in North America; history of Indian-white relations; relations to federal government.
General education credit: Cultural Pluralism

ANT 245 Peoples of Latin America and the Caribbean - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Contemporary cultures of Latin America and the Caribbean; problems of contact, colonization, acculturation, development of the area cultural tradition, and contemporary urbanization.
General education credit: Cultural Pluralism

ANT 270 Native Australia and Oceania - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Origin; traditional ways of life of native peoples of Australia, Polynesia, Micronesia, and Melanesia; modern conditions.
General education credit: Cultural Pluralism

ANT 275 Language and Culture (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 202L
Taught: Variable, check with department
Methods and case studies in anthropological linguistics; relationship between language and culture; language structure.

ANT 276 Archaeological Methods and Theory (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 100
Taught: Variable, check with department
Archaeological excavation methods; excavation at prehistoric and historic cultural resources on the local, state and national level. How to locate projects, make proposals and conduct CRM surveys; writing, submitting and reviewing reports; maintaining good community relations.

ANT 299 Independent Study in Anthropology (3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: ANT 100
Taught: Variable, check with department
Specialized aspect or topic in anthropology chosen by student and appropriate faculty member for study.

ANT 301 World Patterns of Race and Ethnicity (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100 or ANT 100.
Taught: Variable, check with department
Patterns of inter-group relations in multi-ethnic societies; similarities and differences between these and U.S. Same as SOC 301.

ANT 308 Cultural Resource Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 210
Taught: Variable, check with department
Practical, ethical, and legal issues surrounding the preservation of prehistoric and historic cultural resources on the local, state and national level. How to locate projects, make proposals and conduct CRM surveys; writing, submitting and reviewing reports; maintaining good community relations.

ANT 309 Peoples of Africa (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 100 or ANT 201.
Taught: Variable, check with department
Survey and cross-cultural comparisons of the peoples of Sub-Saharan Africa. Emphasis on the impacts of colonialism, ecological adaptation, social and family life, as well as contemporary issues in Africa society.

ANT 311 Museums in Contemporary Society (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 100.
Taught: Variable, check with department
Study of “primitive,” peasant, and urban social organization; associations based on kinship, ethnic affiliation, age, and gender.

ANT 315 Archaeological Excavation Methods (3-4 credits)
Hours: 0 classroom + 6 lab/studio
Taught: Summer only
Archaeological excavation methods; excavation at an archaeological site; excavation, recording, mapping, analysis. Summer. Three semester hours if taught during intersession; 4, if taught during Sweek session.

ANT 318 Prehistoric Ecology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 semester hours of anthropology or consent of instructor.
Taught: Variable, check with department
This course examines human adaptations to local environments from prehistory to early civilizations from an anthropological and archaeological perspective, examines environmental issues using case studies including hunter-gather societies and
early farmers, to early civilizations and urbanization.

**ANT 320 Religion and Culture (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 100 or ANT 201.
Taught: Variable, check with department

Anthropological approaches to the study of religion, religious beliefs, and practices of selected non-western and western cultures.

**ANT 321 Medical Anthropology (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 100 or ANT 201.
Taught: Variable, check with department

Examines the meanings of illness, healing, and the body in cross-cultural and global terms. Topics include the social organization of medical care, varieties of explanations for disease, and political dimensions of health inequalities. Emphasis is laid on the application of anthropological findings to medical care.

**ANT 325 Applied Anthropology (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 100.
Taught: Variable, check with department

Practical uses to which anthropological methods and theory can be put towards solving contemporary social and cultural problems through research, policy development, and administration. Students will examine cross-cultural case studies from specialties within applied anthropology and complete a career-oriented research project.

**ANT 328 Contemporary Issues in Anthropology (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior or senior standing or consent of instructor.
Taught: Variable, check with department

Contemporary issues in anthropology through cross-cultural and four-field approaches.

**ANT 330 Women, Gender, and Culture (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Variable, check with department

Examines the position of women in various cultures around the world: considers women’s roles in local and world subsistence, economic, political, family, religious, and other institutions; examines the cultural construction of gender; seeks explanations for women’s low status and women’s struggle against loss of power.

**ANT 331 Women in Prehistory (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of anthropology or consent of instructor.
Taught: Variable, check with department

This course provides a broad prospective on issues, methodologies, and the current debates focusing on the study of women in prehistory. Roles of women in several early cultures and societies to early civilizations will be addressed; examples include people in the Paleolithic to women in Mesopotamia, Mesoamica, Egypt, and China, among others.

**ANT 336 Historical Archaeology (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of anthropology or history.
Taught: Variable, check with department

Provides an overview of Historical Archaeology as a developing and changing discipline, as practiced in the United States. Includes research on diverse minority groups, cemeteries, landscape, industrial, and urban archaeology, and studies the influences of European settlement on the Americas.

**ANT 340 Ethnographic Methods and Research (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 100, junior standing, or consent of instructor.
Taught: Variable, check with department

Introduction to principles of ethnographic research; readings; design and conduct of an individual ethnographic field research project to be conducted and completed during the semester.

**ANT 342 Quantitative Methods in Anthropology (3 credits)**
Hours: 3 classroom + 2 lab/studio
Prerequisites: ANT 100.
Taught: Variable, check with department

Theoretical foundations and methods used to conduct quantitative analysis in anthropology. This course includes a laboratory component where students practice methods learned in lecture. Topics include: research design, ethics, human subjects protection, research design sampling, GIS/Mapping, interviewing, questionnaires, and computer aided data analysis.

**ANT 345 Environmental Anthropology (3 credits)**
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department

Sociocultural patterns of human environmental interaction, applied research on and policy solutions to environmental problems in the western and non-western worlds.

**ANT 350 North American Archaeology (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 100 or ANT 110 or ANT 210.
Taught: Variable, check with department

Prehistoric cultures and cultural developments in the United States and Canada from the first settlement to late prehistoric times; regional cultural developments.

**ANT 352 Archaeology of Mesoamerica (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of anthropology.
Taught: Variable, check with department

Major pre-Colombian cultures of Mexico and Central America from earliest times until the Spanish conquest (Aztecs, Mayas, etc.); rise of towns, ceremonial centers, cities, states, and empires; development and elaboration of area and regional cultural traditions; selected problems in Mesoamerican prehistory.

**ANT 355 Archaeology Laboratory Analysis (3 credits)**
Hours: 2 classroom + 2 lab/studio
Prerequisites: ANT 210.
Taught: Variable, check with department

Follow-up study of excavated materials; artifact description, measurement, and analysis by students.

**ANT 358 Art and Culture (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 semester hours in anthropology or art.
Taught: Variable, check with department

Functions of the arts in culture and relationship of art to other aspects of culture; arts of Pacific, African, native North American, and other cultures.

**ANT 360 Mesoamerican Indians (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 100 or ANT 201.
Taught: Variable, check with department

Aboriginal cultures of Middle America; economic, social, political, and religious aspects of traditional and contemporary Aztec, Maya, and other Mesoamerican Indian cultures.

**ANT 365 Ethnographic Field Methods (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours anthropology and consent of instructor.
Taught: Summer only

Cross-cultural field training in ethnographic field methods, qualitative data analysis, and ethnographic report-writing.

**ANT 370 Celtic Europe (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 100.
Taught: Variable, check with department

Ethnographic examination of Celtic Europe. Brief look at Pre-Celtic Europe followed by appearance of Celts, earliest written descriptions of Celts, invasion of the insular Celts, linguistic differences between Celts. Description of Celtic culture from written and folkloristic sources, and modern ethnographies leads into Celtic influence in modern global economy.
ANT 371 Psychological Anthropology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 100.
Taught: Variable, check with department
Insight is gained into nonwestern mental processes, how syncretistic religions can act as transcultural psychiatric therapy, and why western psychiatric diagnoses may not apply to people in other cultures. The student is to develop an understanding of the historical development of a theoretical orientation.

ANT 372 Peasant Societies (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 100.
Taught: Variable, check with department
Peasants in the anthropological sense are poor subsistence cultivators. They are a major component of the global population and major contributors to global economics. The student will gain some insight into non-western, non-mechanized farming, and why modern industrial economics may not apply to peasant cultivators.

ANT 374 Celtic and Viking Archaeology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 semester hours of anthropology.
Taught: Variable, check with department
An examination of the archaeological evidence of the Celtic people and Vikings of Europe from the time of the Celts migration to the British Isles to the early historic period.

ANT 375 Anthropology of Aging (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 100.
Taught: Variable, check with department
This is a course in aging. Aging begins at the moment of birth. It is addressed cross culturally and is examined theoretically, historically, ritually, and autobiographically. The student will learn the life history method first hand.

ANT 376 Irish Society Through Film (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Summer only
Insight into Irish society through the use of cinematic self images on film and television. Topics include Irish independence, mid-century rural images that parallel those of classic ethnographies, and how different modern Irish life is from American impressions of it. Does not count towards the anthropology major or minor.

ANT 377 Anthropology Through Sci Fi Film and Lit (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 semester hours of anthropology.
Taught: Summer only
Viewing, reading, and writing science fiction to explore major themes in anthropology (concept of culture, fieldwork and culture shock, nature of gender, culture relativism, social justice, etc.). Does not count toward the Anthropology major or minor.

ANT 380 Origins of Civilization (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
The six major early civilizations: Mesopotamia, Egypt, Indus Valley, China, Mesoamerica, and Peru; archaeological background of the development of early civilization; various theories on the development of civilization.

ANT 381 European Archaeology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Variable, check with department
This course examines human settlement and adaptations in Europe from prehistory beginning in the Paleolithic to the Roman Conquest from an archaeological perspective; introducing students to the archaeological evidence for increasing social complexity and the development of complex societies within the region. We will explore the content and meaning of the development of complex societies in the region, and gain some new understanding of our own society and today’s world as a result.

ANT 382 Visual Anthropology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing, or consent of instructor.
Taught: Variable, check with department
Provides an introduction to anthropological theories of visual communication and contemporary methods of evaluating, producing and displaying visual representations of culture.

ANT 385 Peoples of East and Southeast Asia (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of archaeology.
Taught: Variable, check with department
This course provides an anthropological overview of East and Southeast Asia from prehistory to the present; examines issues in this region including ethnicity and traditional ways of life, acculturation, conflict, impact of globalization and industrialization, and Asian Diasporas.

ANT 386 Economy, Wealth and Culture (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 100 or ANT 201.
Taught: Variable, check with department
Explores cultural methods for producing, distributing, consuming, and exchanging goods and services. Emphasis is laid on moral and political debates over the accumulation and distribution of wealth.

ANT 392 Research: Archaeology (1-6 credits)
Hours: 1-6 classroom + 0 lab/studio
Prerequisites: ANT 210 or consent of instructor.
Taught: Variable, check with department
Student investigation of selected archaeological topics chosen in consultation with instructor.

ANT 394 Topics: Anthropology (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
A newer development in any phase of anthropology. See Schedule of Classes for current topic and prerequisites.

ANT 396 Museum Internship (3-6 credits)
Hours: 0 classroom + 3-6 lab/studio
Prerequisites: Junior or senior standing and consent of instructor.
Taught: Variable, check with department
Supervised work experience in a museum setting.

ANT 401 Culture Theory (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 312.
Taught: Variable, check with department
Development of the discipline; major theoretical and anthropological contributions.

ANT 410 Archaeological Theory (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 210.
Taught: Variable, check with department
Theoretical bases of archaeological research; research design, analysis, and interpretation; socio-cultural reconstruction.

ANT 460 Research Practicum Preparation (1 credit)
Hours: 1 classroom + 0 lab/studio
Prerequisites: SOC 322 or ANT 325.
Taught: Variable, check with department
Small-group seminar to introduce practicum skills: finding a placement assignment, writing a project proposal, making a contract, working with agency/business personnel, working in teams, scheduling projects, writing reports, and managing time. Same as SOC 460.

ANT 480 Anthropology Capstone (0 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Fall and spring
Assessment testing, resume and reflective essays. To be taken in the anthropology major’s last semester.

ANT 491 Research Practicum II (3 credits)
Hours: 3-6 classroom + 0 lab/studio
Taught: Variable, check with department
Continuation of ANT 391. Same as SOC 491.
ANT 499 Independent Study in Anthropology (1-6 credits)
Hours: 1-6 classroom + 0 lab/studio
Prerequisites: Junior or senior standing.
Taught: Variable, check with department
Specialized aspect or topic in anthropology chosen by student and appropriate faculty member for study.

ANT 515 Advanced Archaeological Excavation Methods (3 credits)
Hours: 0 classroom + 6 lab/studio
Prerequisites: ANT 215.
Taught: Summer only
Further experience in excavation, recording, mapping; excavation at an archaeological site. Summer. Three semester hours if taught during intersession; 4 if taught during 5-week session.

ANT 565 Advanced Ethnographic Field Methods (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ANT 365.
Taught: Summer only
Cross-cultural field training in advanced ethnographic field methods, qualitative data analysis, and ethnographic report writing.

ANT 594 Topics: Anthropology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
A special topic in any area of anthropology. For graduate students and advanced undergraduates. Repeatable up to 12 semester hours when topics vary.

ANT 599 Independent Study (1-6 credits)
Hours: 1-6 classroom + 0 lab/studio
Taught: Variable, check with department
Specialized topic in anthropology chosen by student and appropriate faculty member for study. Repeatable up to 12 semester hours when topics vary.

Arabic Courses (ARI)

ARI 101 Elementary Arabic I - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Fundamentals; introduction to the Arabic alphabet and culture; development of skills in grammar, pronunciation, conversation, and reading.
General education credit: Culture and Creativity

ARI 102 Elementary Arabic II (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
Continuation of Arabic 101.

ARI 201 Intermediate Arabic I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ARI 102 or equivalent.
Taught: Variable, check with department
Review and expansion of basic language skills learned in ARI 101; reading and discussion of cultural, linguistic, and literary subjects.

ARI 202 Intermediate Arabic II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ARI 201.
Taught: Variable, check with department
Continuation of grammar review and enhancement of language skills begun in ARI 201; consideration of cultural and literary subjects as well.

ARI 299 Independent Study: Arabic (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ARI 101 and ARI 102.
Taught: Fall and spring
Intermediate level practice in Arabic language.

ARI 350 Methods of Teaching Arabic (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ARI 202 or equivalent.
Taught: Variable, check with department
Theoretical and practical considerations of teaching Arabic in American schools; required of all students seeking teaching certification in Arabic.

ARI 380 Topics in Advanced Arabic (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ARI 202 or equivalent.
Taught: Variable, check with department
Review of language skills learned in ARI 101; reading and discussion of advanced study of Arabic language, literature and culture. May be repeated for credit when topics vary.

ARI 520 Readings in Arabic (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ARI 380 or equivalent.
Taught: Variable, check with department
Various literary, linguistic, cultural, and pedagogical topics. May be repeated for credit when topic varies.

Art Courses (ART)

ART 100 Art Appreciation - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
Examination of the fundamental elements of fine art to increase one’s artistic awareness: emphasis placed on developing skills in viewing, interpreting and understanding the use of art in cultural, historical and contemporary contexts. For students not majoring in visual arts.
General education credit: Culture and Creativity

ART 131 Drawing I (3 credits)
Hours: 3 classroom + 3 lab/studio
Co-requisites: ART 132.
Taught: Fall, spring, and summer
This course will focus on establishing a fundamental knowledge of drawing through materials and techniques emphasizing practice from observation, perception, memory, and imagination. Enrollment restricted to ART majors only.

ART 132 2-Dimensional Studies/Visual Art (3 credits)
Hours: 3 classroom + 3 lab/studio
Co-requisites: ART 131.
Taught: Fall, spring, and summer
Introduction to making art that is two-dimensional through an investigation of basic skills, concepts, terminology, and processes. This exploration of the visual elements and principles of design will provide the foundation for subsequent studio course work and the development of artistic practice. Enrollment restricted to ART majors only.

ART 133 3-Dimensional Studies/Visual Art (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ART 131 and ART 132.
Taught: Fall, spring, and summer
Investigation in to the forms, concepts, materials and processes associated with three-dimensional art making. This exploration of form and space will provide the foundation for subsequent studio course work and development of artistic practice.

ART 134 4D Studies and Color Theory (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ART 131 and ART 132.
Co-requisites: ART 133.
Taught: Fall, spring, and summer
Investigation in to the factors, qualities and characteristics of four-dimensional art and color theory. This exploration of time, perception and interactivity will provide the foundation for subsequent studio course work and the development of artistic practice.

ART 291W Advanced Writing/Writing/Artists - WC (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101, ART 131, ART 132, ART 133 and ART 134.
Taught: Fall and spring
Practice in a variety of expository forms common to fields in the visual arts including: exhibition review, formal analysis, artist’s statement, project proposal, grant writing, and development of strong research skills. Required for all Visual Arts majors. Open to non-art majors with consent of instructor provided they have completed ENG 101.
General education credit: Written Communication II
ART 299 Portfolio Review (0 credits)
Hours: 0 classroom + 1 lab/studio
Prerequisites: 21 credit hours in art and overall GPA of 2.5.
Taught: Fall and spring
Critique forum to evaluate students’ progress and skill level, to help students successfully complete the art degree program; mechanism for faculty to admit students to professional BFA programs. Can be repeated once for BFA admission only. Not required for BA students.

ART 300 Art of the Book (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites:ART 131, ART 132, ART 133 and ART 134.
Taught: Variable, check with department
Concepts, structures, and techniques necessary to create artists’ books through lectures, slides, and visits to collections; binding techniques, paper, and materials; photocopying, rubber stamping, and letterpress printing.

ART 317 Web and Social Media for Artists (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites:ART 131, ART 132, ART 133, ART 134, and ARTD 210.
Taught: Variable, check with department
Create web sites for artists for the purpose of research, self-expression and self-promotion using image and web programs. Students learn effective use of animation and static pages to communicate with viewer on internet.

ART 380 Study Abroad in Art (1-3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Students would participate in and complete assignments associated with traveling with a member of the Department of Art faculty and or student group.

ART 394 Topics in Art (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Fall and spring
Group or individual study/research projects with art department faculty. Topics vary and include technical, conceptual and aesthetic issues and are listed in Schedule of Classes. Repeatable to 6 semester hours toward major in art.

ART 400 Advanced Studio Seminar (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Ceramic art and letterpress printing.

ART 404 Topics in Art (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Fall and spring
Group or individual studio study/research projects in selected media with faculty. Topics vary and include technical, conceptual, and aesthetic issues and are listed in Schedule of Classes. Repeatable up to 6 semester hours toward major in art.

ART 496 Teaching Assistantship in Art (1-3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Consent of instructor and chair, junior or senior standing in Visual Arts.
Taught: Fall and spring
Students will assist a current faculty member in the teaching of a course within the Department of Art.

ART 497 Senior Exhibition (1 credit)
Hours: 1 classroom + 1 lab/studio
Prerequisites: ART 299.
Taught: Fall and spring
Capstone experience for all BFA students majoring in art. During the senior year of residency in the Department of Visual Art, students will learn valuable skills of exhibition design and production, culminating in an exhibition of their work critiqued by a faculty committee. All BFA students must register for and pass BFA Senior Exhibition.

ART 498 Independent Study in Art (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Fall and spring
Projects, directed by faculty members, must be selected before registration. No more than two independent study projects may be applied toward the major in art for up to a total of 6 hours.

ART 499 Gallery/Museum Internship (3-6 credits)
Hours: 3-6 classroom + 0 lab/studio
Prerequisites: Permission of department.
Taught: Fall and spring
Student works in gallery or museum gaining experience in museum handling and studio maintenance; laboratory work, lectures, and research. Required of students who concentrate in ceramics.

ARTC 240 Ceramics I (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ART 131, ART 132, ART 133 and ART 134 or permission of instructor. PREREQ’s waived for non-majors.
Taught: Fall and spring
Nature of clay and ceramic materials; traditional methods of pinch, coil, and slab formations.

ARTC 341 Ceramic Sculpture (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ARTC 240.
Taught: Spring only
Clay as a sculptural medium; fabrication techniques, clay body formulation, and surfaces; engineering, installation, and assembly; introduction to experimental processes; individual problem solving. May be repeated for a total of 6 semester hours.

ARTC 342 Raku and Primitive Firing (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ARTC 240.
Taught: Fall only
Advanced studio credit in Raku and primitive firing techniques.

ARTC 442 Ceramics Materials and Techniques (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ARTC 340 or ARTC 341.
Taught: Fall only
Clay and glaze theory and formulation; materials handling and studio maintenance; laboratory work, lectures, and research. Required of students who concentrate in ceramics.

Drawing Courses (ARTD)

ARTD 310 Drawing II (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ART 131, ART 132, ART 133 and ART 134.
Taught: Fall and spring
Continuation of ART 131. Human figure in development of spatial and tonal concepts; various media and color; advanced study of figure directed toward an individual medium and style. To be repeated for a total of 6 semester hours.
**Art Education Courses (ARTE)**

**ARTE 280 Art for Elementary Education (3 credits)**
Hours: 3 classroom + 3 lab/studio
Prerequisites: EDU 104.
Taught: Fall, spring, and summer
Use of appropriate teaching methods, materials, techniques and vocabulary to develop meaningful art experiences in an elementary classroom. For students seeking provisional certification in Elementary Education.

**ARTE 281 Concepts in Art Education (3 credits)**
Hours: 3 classroom + 3 lab/studio
Prerequisites: ART 131, ART 132, ART 133 and ART 134.
Taught: Variable, check with department
Introduction to the field of art education. Examination of current issues in teaching resources. Includes practical field experiences.

**ARTE 381 Art Education: Content I (3 credits)**
Hours: 3 classroom + 3 lab/studio
Prerequisites: ARTE 281.
Taught: Variable, check with department
Teaching methods, materials and inquiry for use in elementary art classrooms. Includes practical field experiences.

**ARTE 382 Art Education: Content II (3 credits)**
Hours: 3 classroom + 3 lab/studio
Prerequisites: ARTE 381.
Taught: Variable, check with department
Teaching methods, materials and inquiry for use in secondary art classrooms. Focus on curriculum development, assessment and classroom management. Includes practical field experience.

**Art History Courses (ARTH)**

**ARTH 100 History of Art: Renaissance Modernism (3 credits)**
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Examination of major artists and styles of Western Europe from the 15th through the mid-20th century within an historical and cultural context.

**ARTH 101 History of Art: Prehistoric through Goth (3 credits)**
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Examination of significant art and architecture from prehistory through Medieval Period.

**ARTH 102 Survey of Western Art II (3 credits)**
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Examination of Europe’s major artists and styles from Renaissance to mid-19th century.

**ARTH 203 Intro to Ancient Art (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: ART 102 or ARTH 103 or ARTH 104.
Taught: Variable, check with department
Examination of significant art and architecture from group or individual study/research projects with art history faculty. Topics vary and include technical, conceptual, aesthetic and/or historical issues and are listed in the schedule of classes. Repeatable to 6 semester hours toward major in art.

**ARTH 204 African Art (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: ART 102 or ARTH 103 or ARTH 104.
Taught: Variable, check with department
Examination of significant art and architecture of the African American Art (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ARTH 104.
Taught: Variable, check with department
This course will examine the art of African Americans within an historic, social, cultural and religious framework. Influences and connections will be sought from an examination of African traditions, rituals and design as well as contemporaneous trends in music and the performing arts.

**ARTH 394 Topics in Art History (1-3 credits)**
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: ARTH 100 or ARTH 101 or ARTH 102 or ARTH 103 or ARTH 104 or consent of instructor.
Taught: Variable, check with department
Group or individual study/research projects with art history faculty. Topics vary and include technical, conceptual, aesthetic and/or historical issues and are listed in the schedule of classes.

**ARTH 350 Ancient Art (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: ARTH 100 or ARTH 101 or ARTH 102 or ARTH 103 or ARTH 104.
Taught: Variable, check with department
Evolution of Medieval art from late Antiquity to the end of the Gothic period.

**ARTH 352 Arts of South Asia (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: ARTH 104.
Taught: Variable, check with department
Cultural and historical topics on South Asian art and artifacts; aesthetics, architecture, film, literature, painting, and sculpture.
ARTH 454 Art Now (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 credit hours of ART Survey courses (ARTH 100, 101, 102, 103, or 104).
Taught: Variable, check with department
In-depth study of contemporary art, the major movements and artists working today with an emphasis on the role of theory and criticism.

New Media Art Courses (ARTM)

ARTM 331 Digital Arts & Effects (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ART 134 or sophomore standing for non-art majors.
Taught: Fall only
Investigation into concepts, structures, and techniques necessary to produce sophisticated digital imagery using a variety of word and image programs.

ARTM 350 Video, Installation & Sound I (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ART 134 or sophomore standing for non-art majors.
Taught: Fall only
This course will explore interactive media, video and sound art while providing specific skills using non-linear editing software and creating site specific work.

ARTM 360 Robotic Art (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Variable, check with department
This course will explore emerging technological based artworks that include robotics, kinetics and interactive media. Conceptual components of time, space, and interactivity will be researched in this course while providing specific skills in fabricating moving objects and other robotic elements. There will be a series of workshops in which one will learn the skills, capabilities and building techniques of electricity, motors, programming circuits and implementing them into your ideas and artwork. The course will culminate with an independently created robotic controlled object that the student will fabricate.

ARTM 361 A.I. and Interactive Media Studio (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Variable, check with department
This course will explore interactive media allowing students to create and augment work that will react to the viewer. In addition concepts and principles of Artificial Intelligence will be explored and integrated into art, video and or mechanical systems.

ARTM 394 Topics in New Media Art (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: Sophomore standing.
Taught: Spring only
Topics vary from semester to semester. This studio course will explore emerging technological and time based artwork. Conceptual components of time, space, performance and technology will be researched and explored. May be repeated when topics vary.

ARTM 450 Video Installation and Sound II (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ARTM 350.
Taught: Spring only
This course will explore conceptual components of video art while providing advanced skills in pre-production, production and post-production. Including the study of film, social theory, video art and their interrelationships. Students will learn advanced non-linear editing and sound techniques. Students will explore the different ways in which to exhibit video based work including installation, performance, and new genre.

ARTM 451 New Media-Integrative Art (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ARTM 350.
Taught: Variable, check with department
Students will work with external organizations or departments at the University outside the Department of Visual Arts to create an integrated project that utilizes this knowledge base and information.

ARTM 460 Advanced New Media Art (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ARTM 450.
Taught: Variable, check with department
Students are expected to work toward a unique conceptual and technical framework that embodies their personal vision and studio art practice. Students are expected to execute a consistent body of work suitable for exhibition as a one-person show/senior show. To be repeated a minimum of 3 semester hours or a maximum of 9 semester hours.

Photography Courses (ARTO)

ARTO 210 Photography I (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ART 131, ART 132, ARTH 103 or consent of instructor for non-majors.
Taught: Fall and spring
Basic digital camera work in black and white; basic camera controls, photographic vision, photo history; contemporary trends; introduction to current software and digital printing techniques.

ARTO 310 Photography II: Digital Techniques (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ARTO 210.
Taught: Fall and spring
Continuation of ARTO 210 with addition of color, introduction to current software for photo editing and fine printing.

ARTO 311 Photography III (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ART 310.
Taught: Fall and spring
Advanced visual, technical, and conceptual problems initiated by students; in-depth investigations of historical and contemporary work. Can be repeated for a total of 6 semester hours.

ARTO 312 Introduction to Studio and Location (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ART 131, ART 132, ART 133, ART 134 and ARTO 310.
Taught: Variable, check with department
This course is an introduction into the world of applied photography with advanced instruction in the use of digital cameras, including white balance, color temperature, flash, editing, archiving, processing and studio lighting. Portfolio preparation and basic business practices will be covered with weekly photo and writing assignments covering topics concerned with contemporary commercial and editorial photography.

ARTO 313 Darkroom and Exhibition Printing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ARTO 210.
Taught: Variable, check with department
An exploration of Historic processes in photography, darkroom materials and techniques, and the fine art of printing digitally. Through the materials of film cameras and darkroom techniques, we will explore our relationship with the world around us. The course will follow historical techniques in photography from photograms and pinhole photography to plastic cameras to large format photography. Along the way, we will learn the basics of black and white photography and printing in the darkroom as well as gain insight into the history of the medium.

ARTO 394 Topics in Photography (1-3 credits)
Hours: 1-3 classroom + 1-3 lab/studio
Prerequisites: ARTO 210, ARTO 310 or consent of instructor.
Taught: Variable, check with department
Group or individual projects in photography. Topics vary from semester to semester and
include technical, conceptual and aesthetic issues in photography and are listed in Schedule of Classes. Repeatable up to 6 semester hours as topics vary and used as electives in Photography.

**ARTO 410 Advanced Concepts in Photography (3 credits)**
Hours: 3 classroom + 3 lab/studio  
Prerequisites: ARTO 311.  
Taught: Fall and spring  
Student is expected to work towards a personal visual statement; relationship of student’s work with past and contemporary photographs; final development of a body of work suitable for exhibition as a one-person show. To be repeated a minimum of 6 semester hours or a maximum of 12 semester hours.

**ARTO 411 Summer Workshop in Photography (3 credits)**
Hours: 3 classroom + 3 lab/studio  
Prerequisites: ARTO 210.  
Taught: Summer only  
Intensive summer workshop in photography covering a variety of approaches and techniques. Repeatable up to 6 credit hours.

**ARTO 413 Advanced Location Photography (3 credits)**
Hours: 3 classroom + 3 lab/studio  
Prerequisites: ARTO 311 and ARTO 312.  
Taught: Spring only  
Overview of commercial photography; studio illustration and architectural photography.

**ARTO 414 Advanced Studio Photography (3 credits)**
Hours: 3 classroom + 3 lab/studio  
Prerequisites: ARTO 311 and ARTO 312.  
Taught: Fall only  
Commercial photography techniques, studio portraits, environmental portraiture, fashion, color and industrial photography.

**ARTO 415 Documentary Photography (3 credits)**
Hours: 3 classroom + 3 lab/studio  
Prerequisites: ARTO 210.  
Taught: Fall only  
The photo-documentary as an expression of history, sociology, and the human condition. Can be repeated for a total of 6 semester hours.

**ARTO 418 Study Abroad Photography III (3 credits)**
Hours: 3 classroom + 0 lab/studio  
Taught: Variable, check with department  
Advanced photography course for students traveling abroad. Instruction in exposure, composition, and traditional photographic techniques with self-directed projects. Students are encouraged to shoot digitally although film-based cameras acceptable. Critiques while traveling and finished project of artist book or album at completion of trip.

**Painting Courses (ARTP)**

**ARTP 230 Painting I (3 credits)**
Hours: 3 classroom + 3 lab/studio  
Prerequisites: ART 131 and ART 132.  
Taught: Fall and spring  
Use of oil painting media; focusing on fundamental painting techniques from direct observation; criticism and contemporary concepts.

**ARTP 330 Painting II (3 credits)**
Hours: 3 classroom + 3 lab/studio  
Prerequisites: ARTP 230.  
Taught: Fall and spring  
Fundamental issues of figurative painting; sophistication of technique; continued development of personal expression and creative invention based on observation and compositional concerns; exposure to professional standards for craft and conceptual responsibility. Repeatable up to 6 semester hours.

**ARTP 333 Materials and Techniques in Painting (3 credits)**
Hours: 3 classroom + 3 lab/studio  
Prerequisites: ART 131, ART 132, ART 133 and ARTP 230.  
Taught: Fall only-even years  
Various Paint media techniques; professional studio methods; conceptual and craft development.

**ARTP 430 Painting III (3 credits)**
Hours: 3 classroom + 3 lab/studio  
Prerequisites: ARTP 330.  
Taught: Fall and spring  
Individual problems in painting; specialization in techniques suited to personal expression; independent painting under staff guidance; development of a consistent body of work suitable for a graduating senior show. To be repeated a minimum of 6 semester hours or a maximum of 12 semester hours.

**Printmaking Courses (ARTR)**

**ARTR 272 Printmaking I (3 credits)**
Hours: 3 classroom + 3 lab/studio  
Prerequisites: ART 131 and ART 132.  
Taught: Fall and spring  
Basic concepts in printmaking procedures: preparation of blocks and plates, inking, registration, printing by hand and with the press; relief, monoprint, and etching techniques.

**ARTR 373 Printmaking II (3 credits)**
Hours: 3 classroom + 3 lab/studio  
Prerequisites: ARTR 272.  
Taught: Fall and spring  
Continuation of introductory printmaking; further development of technique and personal imagery in various printmaking disciplines; relief, intaglio, monoprint, silkscreen, or collography. Repeatable to 6 semester hours.

**ARTR 374 Techniques in Printmaking (3 credits)**
Hours: 3 classroom + 3 lab/studio  
Prerequisites: ART 131, ART 132, ART 133 and ART 134.  
Taught: Fall and spring  
Methods and processes in fine art printmaking in one or more of the following: relief, collography; intaglio, lithography, mixed media, monotype, photo printmaking, screen printing; development of personal imagery. Repeatable to 12 semester hours.

**ARTR 473 Advanced Printmaking (3 credits)**
Hours: 3 classroom + 3 lab/studio  
Prerequisites: ARTR 373 or ARTR 374.  
Taught: Fall and spring  
Advanced techniques in printmaking; development of personal imagery, refinement of technical skills, experimentation in mixed techniques; color printing. Repeatable for a maximum of 12 semester hours.

**ARTR 474 Workshop in Printmaking (3 credits)**
Hours: 3 classroom + 3 lab/studio  
Prerequisites: Consent of instructor. Repeatable to 12 hours.  
Taught: Fall and spring  
Independent study in advanced printmaking.

**Spatial Arts and Sculpture Courses (ARTS)**

Also see Ceramics (ARTC courses)

**ARTS 262 Sculpture I (3 credits)**
Hours: 3 classroom + 3 lab/studio  
Prerequisites: ART 131 and ART 132 or consent of instructor for non-majors.  
Taught: Fall and spring  
Introduction to sculpture concepts, media, and techniques.

**ARTS 360 Techniques in Sculpture (3 credits)**
Hours: 3 classroom + 3 lab/studio  
Prerequisites: ART 131, ART 132, ART 133 and ART 134 or consent of instructor.  
Taught: Variable, check with department  
Methods and processes in sculpture with an emphasis on fabrication and casting techniques,
personal artistic development and discipline awareness.

**ARTS 362 Topics in Spatial Arts (3 credits)**
Hours: 3 classroom + 3 lab/studio
Prerequisites: ARTC 240 or ARTS 262 or permission of instructor.
Taught: Fall only
Group or individual projects in spatial arts; topics vary and include technical, conceptual and aesthetic issues and are listed in the schedule of classes. Repeatable up to 9 semester hours. Possible Topics include: The Figure in Space Nature Art Public Art.

**ARTS 460 Advanced Spatial Arts (3 credits)**
Hours: 3 classroom + 3 lab/studio
Prerequisites: 9 credits of 300 level chosen from ARTC or ARTS classes or permission of instructor.
Taught: Fall and spring
Development of a body of work suitable for a senior exhibition based upon a personal vision. Independent development in technical areas; conceptual development. Repeatable for a maximum of 12 semester hours.

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**Visual Communication Design Courses (ARTV)**

**ARTV 101 Adobe Creative Cloud: Vis. Design Basics (3 credits)**
Hours: 3 classroom + 3 lab/studio
Taught: Fall and spring
Exposure to digital imaging tools with focus on Adobe Creative Cloud software including Photoshop, Illustrator, Indesign and Bridge for creating visual graphics for potential use in layout, interactive, print and other multi-media production scenarios. Application of learning is for general creative and academic contexts. A primer in elementary concepts of layout, design and typography principles. For students outside of Visual Communication Design major.

**ARTV 201 Intro to Computer Graphics for Design (3 credits)**
Hours: 3 classroom + 3 lab/studio
Prerequisites: ART 131 and ART 132.
Co-requisites: ART 133.
Taught: Spring only
Introduction to industry-standard software used for vector illustration, raster image composition, and hybrid layouts. May be substituted by CEP 300 with consent of instructor or academic adviser.

**ARTV 215 Visual Communication Design (3 credits)**
Hours: 3 classroom + 3 lab/studio
Prerequisites: ART 131, ART 132, and ART 133.
COREQ. ARTV 217 and ARTV 283.
Taught: Fall only
Introduction to the principles and theory of visual communication design; studio development of techniques and approaches for creative conceptualization, design aesthetics and information design; exploration through the design process; exploration of media/materials; presentational development.

**ARTV 217 Typography I (3 credits)**
Hours: 3 classroom + 3 lab/studio
Prerequisites: ARTV 201.
Co-requisites: ARTV 215 and ARTV 283.
Taught: Fall only
Studio introduction to principles, theory, and history of typography for communication and visual expression. Design aesthetics and functional dimensions of the fundamentals of typography are explored.

**ARTV 283 Graphic Design Admittance Review (0 credits)**
Hours: 0 classroom + 0 lab/studio
Prerequisites: ART 131, ART 132, ART 133, ART 134, and ARTV 201.
Co-requisites: ARTV 215 and ARTV 217.
Taught: Fall only
Admittance review into the visual communication design program. Students present work from the introductory design and foundations-level courses for review by the design faculty for consideration in declaring the major.

**ARTV 315 Visual Communication Design II (3 credits)**
Hours: 3 classroom + 3 lab/studio
Prerequisites: ARTV 215, ARTV 217, ARTV 283.
Taught: Fall only
Development of skills for design systems thinking and applications; principles of information design and visual semantics; design with multiple forms of media for generating bodies of branded visual communication materials and sequential graphics.

**ARTV 317 Typography II (3 credits)**
Hours: 3 classroom + 3 lab/studio
Prerequisites: ARTV 201, ARTV 215, ARTV 217, ARTV 283.
Taught: Spring only
The application of typographic fundamentals to visual communication design contexts and systems; aesthetics, form, functionality and experimentation with typography in increasingly complex contexts. Exploration of formal expressions of meaning and message.

**ARTV 325 Techniques in Visual Communication Design (3 credits)**
Hours: 3 classroom + 3 lab/studio
Prerequisites: ARTV 283, ARTV 317 and ARTV 315.
Taught: Spring only
Imaging, prototyping, sustainable production methodologies and techniques for producing high-quality visual design across print and interactive media. Studio-based course that instructs on best practices and experiments with new tools in proposing and actualizing design ideas.

**ARTV 326 Illustration (3 credits)**
Hours: 3 classroom + 3 lab/studio
Prerequisites: ART 131, ARTP 230 and ARTD 310.
Taught: Spring only
Techniques of creative rendering.

**ARTV 330 Interaction Design for Visual Communication Design I (3 credits)**
Hours: 3 classroom + 3 lab/studio
Prerequisites: ARTV 283, ARTV 317.
Taught: Fall only
This course focuses on the fundamental designing of websites and interfaces for visual communication through studio-based inquiry and visual problem-solving. This includes visual, conceptual, and creative strategies and processes for design for web, digital media and human experiences; information architecture; the aesthetics of interaction design; screen-based typography; human factors, usability, and web standards. Students learn web authoring tools and technology in addition to basic animation software to engage in challenges that build competencies in visual communication design contexts.

**ARTV 396 Portfolio Prep Visual Communication Des. (1 credit)**
Hours: 1 classroom + 0 lab/studio
Prerequisites: ARTV 283 and ARTV 317.
Taught: Fall and spring
Portfolio package creation for Visual Communication Design majors preparing to enter into industry—professional internship or employment. Digital, interactive or print portfolios are prepared in relation to current practices and individual student career orientation. Students entering into course are responsible for having a sufficient number of works prior to entering course—this course focuses on portfolio creation, not project development. Repeatable 1 time.

**ARTV 415 Visual Communication Design III (3 credits)**
Hours: 3 classroom + 3 lab/studio
Prerequisites: ART 298, ARTV 315, ARTV 317, ARTV 325, ARTV 330, ARTV 417.
Taught: Spring only
Comprehensive graphic designing in project form across media; critical thinking on formal, functional, and professional levels; the social impact of design; client and agency skills directed toward individual areas of specialization and professionalism.
ARTV 417 Typography III (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ART 299, ARTV 215, ARTV 217, ARTV 283, ARTH 321, ARTV 315, ARTV 317 and ARTV 325.
Taught: Fall only
Advanced explorations, applications of and innovations with typography in complex visual communication contexts; functional and aesthetic design considerations in varied media and formats; exploration of organizational systems for the design of large amounts of varied/sequential content.

ARTV 421 Topics in Visual Communication Design (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ARTV 283 and ARTV 317.
Taught: Spring only
Topics listed in Schedule of Classes as topics change. Repeatable to 9 semester hours toward a major in visual communication design.

ARTV 425 Information Design (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ART 299, ARTV 317, ARTV 315, ARTV 325, and ARTV 330.
Taught: Fall only
Transformation of complex data into understandable forms of information through clear visual presentations, systems and experiences; User-centered visual design principles and aesthetics are applied across media to time-based, diagrammatic, pictographic, navigational/wayfinding, instructional, and educational topics.

ARTV 427 Motion Design (3 credits)
Hours: 0 classroom + 3 lab/studio
Prerequisites: ART 299, ARTV 317, ARTV 315, ARTV 325, and ARTV 330.
Taught: Variable, check with department
This course focuses on designing motion, animation and time-based experiences for visual communication design contexts through studio inquiry and visual problem-solving. This includes visual, conceptual, technical, and creative strategies and processes to produce animations for multimedia environments. Students build competencies with motion design tools, technology and software.

ARTV 428 Visual Communication Design Capstone (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ART 298, ARTV 417 and ARTV 425.
Co-requisites: ART 497.
Taught: Fall and spring
Development of a comprehensive, student-devised project reflecting cumulative knowledge in visual communication design strategies and media; planning, creation, direction, and execution of that design project; development of professional practice skills, personal portfolio, exhibition, and public presentation.

ARTV 430 Interaction Design for Vis Com Des II (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: ARTV 283, ART 299 and ARTV 330.
Taught: Fall and spring
Advanced studio inquiry in interaction design through a framework of visual communication strategies for mobile and environmental media.

ARTV 496 Visual Communication Design Internship (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ARTV 283, ARTV 315, ARTV 325, and ARTV 330.
Taught: Fall and spring
Experiential Component for Visual Communication Design majors. Students arrange a design internship or similar experience that acclimates them to the profession of visual communication design before graduation. Students must make arrangements with instructor before beginning this course. Repeatable up to 6 hrs. (or CEP 300 Coop. Education)

Astronomy Courses (AST)

AST 110 Solar System Astronomy with Laboratory - SL (4 credits)
Hours: 3 classroom + 2 lab/studio
Taught: Fall, spring, and summer
Integrated lecture and laboratory; survey of the solar system with emphasis on application of scientific method; current thought on structure, dynamics, origin, and evolution of sun and planets; laboratory activities on observational techniques and astrophysical problems. Knowledge of elementary algebra is helpful.
General education credit: Natural Science

AST 115 Stars, Galaxies, and Cosmology with Laboratory - SL (4 credits)
Hours: 3 classroom + 2 lab/studio
Taught: Fall, spring, and summer
Integrated lecture and laboratory; structure, structure, dynamics, origin, and evolution of stars, galaxies, and the universe within a framework of scientific methodology; laboratory activities on observational techniques and astrophysical processes. Knowledge of elementary algebra is helpful.
General education credit: Natural Science

AST 210 Backyard Astronomy (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: MAHD 099, AST 110 or AST 115.
Taught: Variable, check with department
Introduction to observational astronomy, including naked-eye observing, observing with binoculars, and telescopic observing. Topics such as amateur astronomy, star charts, coordinates, time, binoculars, telescopes, eyepieces, filters, mountings, site selection, observations of solar system objects, deep-sky observations, astrophotography and imaging may also be included.

AST 294 Topics: Astronomy (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of department chair.
Taught: Variable, check with department
Special topics in astronomy. Repeatable for a maximum of 12 semester hours.

AST 310 Astronomical Techniques (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: PHY 224 or PHY 213, and MAT 129 or MAT 227.
Taught: Variable, check with department
Lecture/lab course introduces the techniques of observational astronomy. Topics may include: celestial sphere, coordinate systems, time measurements, charts, catalogs and databases, spherical trigonometry, optical telescopes, atmospheric effects, detectors and calibration, astronomical photometry, spectroscopy and spectographs, and astronomical imaging.

AST 315 Introductory Astrophysics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MAT 129 or MAT 227, and C- or better in PHY 222 or PHY 213.
Taught: Variable, check with department
Quantitative application of physical principles to subjects of astronomical interest, such as the interaction of radiation with matter, analysis of stellar atmospheres, origin and evolution of the elements, and cosmology. Same as PHY 315.

AST 325 Geology of the Planets (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: GLY 110 or AST 110.
Taught: Variable, check with department
Geologic features and history of the inner planets, satellites of the gas giants, asteroids and other small solid bodies. Same as GLY 325.

AST 392 Directed Research: Astronomy (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Variable, check with department
Supervised research in an area of astronomy currently under investigation by one or more members of the astronomy faculty. Repeatable for a maximum of 9 semester hours.

AST 394 Topics: Astronomy (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: AST 115 or consent of instructor.
Taught: Variable, check with department
Topics of current astronomical interest or significant physical and philosophical importance, e.g., cosmology, black holes, relativity, stellar
evolution, the interstellar medium, observational techniques, space flight, and exobiology.

**AST 397 Special Projects: Astronomy (1-3 credits)**
- **Hours:** 1-3 classroom + 0 lab/studio
- **Prerequisites:** Junior standing.
- **Taught:** Variable, check with department
- Completion of an independent project in astronomy. Repeatable for a maximum of 6 semester hours.

**AST 399 Independent Study in Astronomy (1-3 credits)**
- **Hours:** 1-3 classroom + 0 lab/studio
- **Prerequisites:** AST 394.
- **Taught:** Variable, check with department
- Directed projects for advanced students.

**AST 492 Directed Research: Astronomy (1-3 credits)**
- **Hours:** 1-3 classroom + 0 lab/studio
- **Prerequisites:** 8 semester hours of upper division physics or astronomy courses.
- **Taught:** Variable, check with department
- Supervised research in an area of astronomy currently under investigation by one or more members of the astronomy faculty. Repeatable for a maximum of 9 semester hours.

### Athletic Training Program Courses (ATP)

#### ATP 101 Concepts of Athletic Training (1 credit)
- **Hours:** 1 classroom + 0 lab/studio
- **Taught:** Variable, check with department
- This course is designed to provide students with an understanding of Athletic Training educational and professional requirements.

#### ATP 200 Medical History and Documentation (1 credit)
- **Hours:** 1 classroom + 0 lab/studio
- **Co-requisites:** ATP 201 and ATP 280.
- **Taught:** Fall and spring
- Knowledge, skills, and values required for an entry-level certified athletic trainer to conduct a patient history, identify the parts of the evaluation entry level certified athletic trainer to conduct the basic physical assessments skills associated with orthopedic evaluation.

#### ATP 280 Pre-Athletic Training (1 credit)
- **Hours:** 0 classroom + 1 lab/studio
- **Prerequisites:** Permit of ATEP Director.
- **Co-requisites:** ATP 200 and ATP 201.
- **Taught:** Fall and spring
- Knowledge, skills, and values necessary for a student entering the Athletic Training Education Program (ATP). The lab portion of the course emphasizes skill development in areas including but not limited to: immediate injury treatment, application of orthopedic appliances, and taping/wrapping. The course includes 50 hours observation with athletic trainers in a variety of employment settings. Students applying to the ATP must take this course simultaneously with KIN 280.

#### ATP 296 Athletic Training Clinical I (2 credits)
- **Hours:** 2 classroom + 0 lab/studio
- **Prerequisites:** HEA 135, PHE 280.
- **Taught:** Spring only
- A laboratory instruction and evaluation of NATA education competencies and clinical proficiencies associated with the topics presented in PHE 280 and other pre-professional courses. The course has an associated clinical assignment that provides a supervised practical experience in an athletic training setting.

#### ATP 300 Equipment Intensive Field Experience Program (1 credit)
- **Hours:** 0 classroom + 2 lab/studio
- **Taught:** Fall only
- The primary focus is the application of sport related equipment and includes knowledge and skills associated with high-risk sports medical coverage. Athletic Training students must complete a minimum of 60 clock hours.

#### ATP 320 Emergency Care in Athletic Training (1 credit)
- **Hours:** 0 classroom + 1 lab/studio
- **Prerequisites:** ATP 280 and KIN 280.
- **Taught:** Fall and spring
- This laboratory course will prepare the athletic training students to recognize, monitor and administer the appropriate emergency medical care to an injured or ill athlete. This laboratory course emphasizes knowledge and skill development in areas including, but not limited to recognition and management of emergency situations, such as cardiac, respiratory, heat related illnesses, diabetic and spinal cord injuries.

#### ATP 333 Lower Extremity Evaluation (2 credits)
- **Hours:** 2 classroom + 0 lab/studio
- **Prerequisites:** KIN 280, ATP 280, ATP 201, ATP 201, BIO 208 and BIO 208L.
- **Co-requisites:** ATP 333L
- **Taught:** Spring only
- Knowledge, skills, and values required for an entry level certified athletic trainer to assess lower extremity injuries associated with athletes and the physically active. The course will focus on pathology, etiology, clinical skills for assessment, proper care, and referral to other health care personnel when necessary.

#### ATP 333L Lower Extremity Evaluation Lab (1 credit)
- **Hours:** 0 classroom + 2 lab/studio
- **Co-requisites:** ATP 333.
- **Taught:** Variable, check with department
- Knowledge, skills, and values required for an entry level certified athletic trainer for evaluation of lower extremity injuries associated with athletes and the physically active. The course will focus on the clinical skills needed for the examination and clinical diagnosis of injuries to the lower extremity.

#### ATP 334 Upper Extremity Evaluation (2 credits)
- **Hours:** 2 classroom + 0 lab/studio
- **Prerequisites:** ATP 200, ATP 201, ATP 280, KIN 280, BIO 208, and BIO 208L.
- **Co-requisites:** ATP 334L
- **Taught:** Fall only
- Knowledge, skills, and values required for an entry level certified athletic trainer to assess upper extremity injuries associated with athletes and the physically active. The course will focus on pathology, etiology, clinical skills for assessment, proper care, and referral to other health care personal when necessary.

#### ATP 334L Upper Extremity Evaluation Lab (1 credit)
- **Hours:** 0 classroom + 2 lab/studio
- **Co-requisites:** ATP 334.
- **Taught:** Variable, check with department
- Knowledge, skills, and values required for an entry level certified athletic trainer for evaluation of upper extremity injuries associated with athletes and the physically active. The course will focus on the clinical skills needed for the examination and clinical diagnosis of injuries to the upper extremity.

#### ATP 335 Head and Spine Evaluation (3 credits)
- **Hours:** 3 classroom + 0 lab/studio
- **Prerequisites:** ATP 201, ATP 201, ATP 280, KIN 280, BIO 208, and BIO 208L.
- **Taught:** Spring only
- Knowledge, skills, and values required for an entry-level certified athletic trainer to assess spine and core injuries associated with athletes and the physically active. The course focuses on pathology, etiology, clinical skills for assessment, proper care, and referral to other health care personnel when necessary.
ATP 350 Athletic Training Junior Seminar (1 credit)
Hours: 1 classroom + 0 lab/studio
Co-requisites: ATP 367.
Taught: Variable, check with department
This course involves discussion of student experiences in clinical athletic training and laboratory practice of skills required for clinical athletic training. This course has an associated clinical assessment that provides a supervised practical experience in an athletic training setting.

ATP 366 Athletic Training Clinical Practicum I (1 credit)
Hours: 0 classroom + 0 lab/studio
Prerequisites: ATP 202, ATP 201, ATP 280, KIN 280, BIO 208, BIO 208L, and permission from instructor.
Taught: Fall and spring
The purpose of this course is to provide students a guided application of knowledge, skills, clinical decision making, and professional behaviors in a real world patient care setting. The course reflects introductory content including but not limited to: taping, wrapping, triage, first-aid, injury recognition, initial treatment, and SOAP note writing. Students complete a total of 50 clock hours with a clinical education preceptor. For more details on clinical assignment requirements and eligibility please contact the Athletic Training Education Program.

ATP 367 Athletic Training Clinical Practicum II (3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Permission of instructor.
Co-requisites: ATP 350.
Taught: Fall and spring
The purpose of this course is to provide students a guided application, knowledge, skills, clinical decision making, and professional behaviors in a real world patient care setting. The course reflects content including but not limited to examination of common injuries and conditions associated with the physical activity patient. Students complete 10 hours/per week (150 total) with a clinical education preceptor. For more details on clinical assignment requirements and eligibility please contact the Athletic Training Education Program.

ATP 394 Athletic Training Practicum II (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: Admission to the Athletic Training Program; ATP 333.
Taught: Fall only
A laboratory instruction and evaluation of NATA education competencies and clinical proficiencies associated with the topics presented in ATP 333, PHE 280 and other athletic training major courses. Course has an associated clinical assignment that provides a supervised practical experience in an athletic training setting.

ATP 396 Athletic Training Clinical III (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: Admission to the Athletic Training Program; ATP 334, 420, and KIN 370.
Taught: Spring only
A laboratory instruction and evaluation of NATA education competencies and clinical proficiencies associated with the topics presented in ATP 334, 420, and PHE 370 and other athletic training major courses. Course has an associated clinical assignment that provides a supervised practical experience in an athletic training setting.

ATP 420 General Medical for Athletic Training (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: KIN 280, BIO 208, BIO 208L, BIO 209, and BIO 209L.
Taught: Fall only
The principles necessary for an entry level certified athletic trainer to identify, assess, and provide appropriate care and referral of general medical (non-orthopedic) conditions commonly seen by sports medicine specialists.

ATP 425 Therapeutic Modalities (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ATP 280, BIO 208, BIO 208L, BIO 209, and BIO 209L.
Co-requisites: ATP 425L.
Taught: Fall only
Provides the knowledge, skills, and values that an entry level certified athletic trainer must possess to plan, implement, document, and evaluate the efficacy of therapeutic exercise programs for the prevention and rehabilitation of the injuries and illnesses of athletes and other involved in physical activity. The course has a 1 hour mandatory lab.

ATP 425L Therapeutic Modalities Lab (1 credit)
Hours: 0 classroom + 2 lab/studio
Co-requisites: ATP 425.
Taught: Variable, check with department
This course employs peer teaching, which allows the senior level student to disseminate knowledge to underclassmen. The student will assist the course instructor in teaching the students in the hands on skills associated with either ATP 333L, 334L, 425L, or 440L.

ATP 430 Pharmacology for Athletic Training (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: KIN 280, BIO 208, BIO 208L, BIO 209, and BIO 209L.
Taught: Fall only
Exploration of legal, physiological, and ethical parameters governing the use of pharmacological agents commonly used in the athletic training settings.

ATP 435 Administration of Athletic Health Care (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: KIN 280.
Taught: Fall only
Provides the athletic training student with information that will enhance his/her ability to function effectively as a professional and to enhance awareness of current administrative, professional, and legal issues pertaining to athletic training and sports medicine.

ATP 440 Rehabilitation of Athletic Injuries (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ATP 334, ATP 334L, BIO 208, BIO 208L, BIO 209, BIO 209L, and KIN 370.
Co-requisites: ATP 440L.
Taught: Spring only
Provides the knowledge, skills, and values that an entry level certified athletic trainer must possess to plan, implement, document, and evaluate the efficacy of therapeutic exercise programs for rehabilitation and reconditioning of the injuries and illnesses of athletes and other involved in physical activity.

ATP 440L Rehabilitation of Athletic Injuries Lab (1 credit)
Hours: 0 classroom + 2 lab/studio
Co-requisites: ATP 440.
Taught: Variable, check with department
This course employs peer teaching, which allows the senior level student to disseminate knowledge to underclassmen. The student will assist the course instructor in teaching the students in the hands on skills associated with either ATP 333L, 334L, 425L, or 440L.

ATP 450 Senior Teaching and Research Seminar (1 credit)
Hours: 0 classroom + 0 lab/studio
Prerequisites: ATP 350.
Co-requisites: ATP 467.
Taught: Fall and spring
This course applies peer teaching, which allows the senior level student to disseminate knowledge to underclassmen. The student will assist the course instructor in teaching the students in the hands on skills associated with either ATP 333L, 334L, 425L, or 440L.

ATP 455 Athletic Training Senior Capstone (3 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: Permission from instructor.
Taught: Spring only
Provides a comprehensive review of modern athletic training issues. The course is also designed to provide the student with an introduction to research methods for health sciences/athletic training.
ATP 466 Athletic Training Clinical Practicum IIIA (12 credits)
Hours: 0 classroom + 0 lab/studio
Taught: Variable, check with department
The purpose of this course is to provide students a guided application, knowledge, skills, clinical decision making, and professional behaviors in a real world patient care setting. The course reflects content including but not limited to the treatment, rehabilitation, and reconditioning of injuries/conditions associated with the physical active patient. This is a culminating clinical education experience in which students are required to 40 hours per/week with a clinical education preceptor. As a result of the clinical demands students are not allowed to enroll in more than 3 additional credit hours.

ATP 467 Athletic Training Clinical Practicum IIB (1 credit)
Hours: 0 classroom + 0 lab/studio
Prerequisites: ATP 366, ATP 367, ATP 425, ATP 425L, ATP 440 and ATP 440L.
Taught: Variable, check with department
The purpose of this course is to provide students a guided application, knowledge, skills, clinical decision making, and professional behaviors in a real world patient care setting. The course reflects content including but not limited to the professional service, organizational/administrative and pharmacology. This is a culminating clinical education experience in which students are required to complete a total of 50 clock hours with a clinical education preceptor.

ATP 494 Athletic Training Practicum IV (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: Admission to Athletic Training Program; ATP 430, 425, KIN 260, 340.
Taught: Fall only
A laboratory instruction and evaluation of NATA education competencies and clinical proficiencies associated with the topics presented in ATP 430, 425, PHE 260 and 440. The course has an associated clinical assignment that provides a supervised practical experience in an athletic training setting.

ATP 496 Athletic Training Clinical V (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: Admission to Athletic Training Program; ATP 435, 440, PSY 405 and KIN 349.
Taught: Spring only
A laboratory instruction and evaluation of NATA education competencies and clinical proficiencies associated with the topics presented in ATP 435, 440, PSY 405, PHE 465 and other athletic training major courses. The course has an associated clinical assignment that provides a supervised practical experience in an athletic training setting.

ATP 499 Independent Study in Athletic Training (1-6 credits)
Hours: 1-6 classroom + 0 lab/studio
Prerequisites: Junior or senior standing.
Taught: Variable, check with department
The purpose of this course is to provide students a guided application, knowledge, skills, clinical decision making, and professional behaviors in a real world patient care setting. The course reflects content including but not limited to the treatment, rehabilitation, and reconditioning of injuries/conditions associated with the physical active patient. This is a culminating clinical education experience in which students are required to 40 hours per/week with a clinical education preceptor. As a result of the clinical demands students are not allowed to enroll in more than 3 additional credit hours.

Biological Sciences Courses (BIO)

BIO 120 Understanding the Living World - NS (4 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: A minimum ACT score of 19 in each division (or SAT equivalent) or completion of all precollege curriculum courses.
Co-requisites: BIO 120L.
Taught: Fall, spring, and summer
Cell biology, genetics, ecology, biological evolution, and diversity. Not applicable to the major or minor in biological sciences.
General education credit: Natural Science

BIO 120H Honors Understanding the Living World - NS (4 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: A minimum ACT score of 24 in each division (or SAT equivalent) or accepted admission to the honors program.
Co-requisites: BIO 120L.
Taught: Spring only
Cell biology, genetics, ecology, biological evolution, and diversity. Not applicable to major or minor in biological sciences.
General education credit: Natural Science

BIO 120L Understanding the Living World Laboratory - SL (0 credits)
Hours: 0 classroom + 2 lab/studio
Co-requisites: BIO 120 or BIO 120H.
Taught: Fall, spring, and summer
Lab to accompany BIO 120 or BIO 120H.
General education credit: Natural Science

BIO 121 Diseases and the Systems they Affect - NS (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: A minimum ACT score of 19 in each division (or SAT equivalent), or completion of all precollege curriculum courses.
Taught: Fall and spring
Anatomy and physiology, including skeletal, muscular, nervous, endocrine, circulatory, respiratory, digestive, urinary, and reproductive systems and diseases that affect each. Not applicable to major or minor in biological sciences.
General education credit: Natural Science

BIO 121L Diseases and the Systems they Affect Laboratory - SL (1 credit)
Hours: 0 classroom + online 2 lab/studio
Prerequisite OR Co-requisite: BIO 121.
Taught: Fall and spring
Laboratory to accompany BIO 121. Microscopy, anatomy, and physiology.
General education credit: Natural Science

BIO 123 Human Ecology - NS (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: A minimum ACT score of 19 in each division (or SAT equivalent) or completion of all precollege curriculum courses.
Taught: Spring only
Applications of ecological science to human impacts on natural ecosystems and use of natural resources; human population dynamics; conservation of biological diversity and ecosystem function. Not applicable to the major or minor in biological sciences.
General education credit: Natural Science

BIO 125 Biological Perspectives of Wellness - NS (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: A minimum ACT score of 19 in each division (or SAT equivalent), or completion of all precollege curriculum courses.
Taught: Fall, spring, and summer
Covers mental health, including depression, panic disorders, and addictions, as well as physical health, including eating disorders, heart attacks, and sexually transmitted diseases, among other topics. Not applicable to major or minor in biological sciences.
General education credit: Natural Science

BIO 126 Human Nutrition - NS (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: A minimum ACT score of 19 in each division (or SAT equivalent), or completion of all precollege curriculum courses.
Taught: Fall, spring, and summer
Human nutritional requirements; physiology of digestion and absorption; world food crises; food faddism and miracle diets. Not applicable to major or minor in biological sciences.
General education credit: Natural Science

**BIO 150 Introduction to Biology I - NS (4 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: A minimum ACT score of 22 in math and 19 in each remaining division (or SAT equivalent), or completion of all precollege curriculum courses.
Co-requisites: BIO 150L.
Taught: Fall and spring
The chemistry of life; cell structure and function; photosynthesis and respiration; cellular reproduction and Mendelian genetics; gene regulation and DNA technology. Suggested only for students majoring or minoring in biological sciences, other natural sciences or other pre-professional programs. GENERAL STUDIES: Science inquiry.

General education credit: Natural Science

**BIO 150L Introduction to Biology I Laboratory - NS (0 credits)**
Hours: 0 classroom + 3 lab/studio
Co-requisites: BIO 150.
Taught: Fall and spring
Laboratory to accompany BIO 150. Suggested only for students majoring or minoring in biological sciences, natural sciences, or other pre-professional programs.

General education credit: Natural Science

**BIO 151 Introduction to Biology II (4 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 150 with a C- or better.
Co-requisites: BIO 151L.
Taught: Spring and summer
Population genetics and evolution; systematics and diversity of life; organismal systems anatomy and physiology; interrelationships among organisms and between organisms and their environment.

**BIO 151L Introduction to Biology II Laboratory (0 credits)**
Hours: 0 classroom + 3 lab/studio
Co-requisites: BIO 151.
Taught: Spring and summer
Laboratory to accompany BIO 151.

**BIO 155 Orientation to Biology (1 credit)**
Hours: 1 classroom + 0 lab/studio
Prerequisite OR Co-requisite: BIO 150.
Taught: Fall and summer
Biological issues and applications, methodology, career opportunities, and postgraduate options. Classroom discussions, faculty panels, and written essays.

**BIO 158 Biological Evolution - NS (3 credits)**
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Survey of the principles of heredity of biological change, diversity of life, evidence for evolution, forms of selection, speciation, co-evolution, life history strategies, extinctions, human evolution, and evolution of social behavior. Not applicable to the major or minor in biological sciences.

General education credit: Natural Science

**BIO 202 Microbiology for Health Professionals (4 credits)**
Hours: 2 classroom + 0 lab/studio
Prerequisites: One semester of college biology and one semester of college chemistry (CHE 115 or above).
Co-requisites: BIO 202L.
Taught: Fall, spring, and summer
Bacteriological techniques; control, epidemiology, and pathogenicity of microorganism; pathogen-host relationships; disease states. Not applicable to major or minor in biological sciences.

**BIO 202L Microbiology for Health Professionals Laboratory (0 credits)**
Hours: 0 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Fall, spring, and summer
Laboratory to accompany BIO 202. Bacteriological techniques.

**BIO 208 Human Anatomy and Physiology I - NS (4 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: Composite ACT of 19 or any college biology or chemistry course with a grade of C- or better.
Co-requisites: BIO 208L.
Taught: Fall, spring, and summer
Introduction to human structure and function. Not applicable to major or minor in biological sciences.

General education credit: Natural Science

**BIO 208L Human Anatomy and Physiology I Laboratory - SL (0 credits)**
Hours: 0 classroom + 2 lab/studio
Co-requisites: BIO 208.
Taught: Fall, spring, and summer
Laboratory to accompany BIO 208. Gross and microscopic morphology and application of physiological principles.

**BIO 209 Human Anatomy and Physiology II (4 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 208.
Co-requisites: BIO 209L.
Taught: Fall, spring, and summer
Continuation of BIO 208 with emphasis on structure and function of organ systems. Students should complete both BIO 208 and 209 for an overall survey of human structure and function. Not applicable to a major or minor in biological sciences.

**BIO 209L Human Anatomy and Physiology II Laboratory (0 credits)**
Hours: 0 classroom + 2 lab/studio
Co-requisites: BIO 209.
Taught: Fall, spring, and summer
Laboratory to accompany BIO 209. Gross and microscopic morphology and application of physiological principles.

**BIO 235 Costa Rican Natural History - AH (3 credits)**
Hours: 2 classroom + 3 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Overview of political, ecological, developmental, and cultural interactions in Costa Rica. Pre- and post-Columbian natural history. Stress on ecological problems and solutions. Required field trip to Costa Rica during spring break.

General education credit: Global Viewpoints

**BIO 272 Medical and Biological Terminology (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 150 or BIO 208.
Taught: Fall only
Derivatives, prefixes, roots, and suffixes.

**BIO 291W Advanced Writing in Biology - WC (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or ENG 151, and BIO 151.
Taught: Fall, spring, and summer
Introduction to scientific literature and writing, experimental design, research, and proposal development. Advanced techniques in information search and retrieval, scientific writing, and effective presentation.

General education credit: Written Communication II

**BIO 292 Introduction to Research in Biology (0 credits)**
Hours: 0 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Introduction to research in the biological sciences by participating in a special project or original research directed by a member of the biology faculty. Course intended for science majors interested in biological sciences research but not ready or able to enroll in more advanced research courses. Pass/fail grade only.

**BIO 294 Topics: Biological Sciences (1-5 credits)**
Hours: 0-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Intensive study of specialized subject matter in biological sciences. May be repeated for credit when topic varies.
BIO 300 Comparative Vertebrate Anatomy (4 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 151.
Co-requisites: BIO 300L.
Taught: Fall only-even years
Organs and organ systems of representative vertebrates; phylogenetic relationships among vertebrate classes.

BIO 300L Comparative Vertebrate Anatomy Laboratory (0 credits)
Hours: 0 classroom + 3 lab/studio
Co-requisites: BIO 300.
Taught: Fall only-even years
Laboratory to accompany BIO 300.

BIO 301 Invertebrate Zoology (4 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: BIO 151.
Co-requisites: BIO 301L.
Taught: Fall only-odd years
Classification, anatomy, physiology, ecology, and preservation of invertebrate animals.

BIO 301L Invertebrate Zoology Laboratory (0 credits)
Hours: 0 classroom + 4 lab/studio
Co-requisites: BIO 301.
Taught: Fall only-odd years
Laboratory to accompany BIO 301. Field trips.

BIO 302 General Microbiology (4 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: C- or better in BIO 151 and CHE 120 or CHE 120H.
Co-requisites: BIO 302L.
Taught: Fall and spring
Microbiological techniques; classification and morphology of microorganisms; biochemistry and control of growth; pathogenic microorganisms.

BIO 302L General Microbiology Laboratory (0 credits)
Hours: 0 classroom + 4 lab/studio
Co-requisites: BIO 302.
Taught: Fall and spring
Laboratory to accompany BIO 302. Microbiological techniques.

BIO 303 Vertebrate Zoology (4 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: BIO 151.
Co-requisites: BIO 303L.
Taught: Fall only-even years
Classification, evolution, life histories, ecology, and distribution of vertebrates.

BIO 303L Vertebrate Zoology Laboratory (0 credits)
Hours: 0 classroom + 4 lab/studio
Co-requisites: BIO 303.
Taught: Fall only-even years
Laboratory to accompany BIO 303. Field trips, including one weekend field trip.

BIO 304 General Ecology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 150 and BIO 151.
Taught: Fall, spring, and summer
Interrelationships between organisms and their environment.

BIO 304L Ecology Laboratory (1 credit)
Hours: 0 classroom + 3 lab/studio
Prerequisite OR Co-requisite: BIO 304.
Taught: Fall, spring, and summer
Sampling techniques, experimental design, and data analyses in ecological research. Field trips.

BIO 305 Developmental Biology (4 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 151.
Co-requisites: BIO 305L.
Taught: Fall only-odd years
Principles of embryonic development, mainly using animal model organisms and focused on the cellular and molecular mechanisms of development.

BIO 305L Developmental Biology Laboratory (0 credits)
Hours: 0 classroom + 2 lab/studio
Co-requisites: BIO 305.
Taught: Variable, check with department
Laboratory to accompany BIO 305.

BIO 306 Plant Ecology (4 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: BIO 150.
Co-requisites: BIO 306L.
Taught: Fall only-odd years
Interrelationships of plants and their environment; classification, distribution, structure, and analysis of vegetation; plant succession; ecological methods. Field trips.

BIO 306L Plant Ecology Laboratory (0 credits)
Hours: 0 classroom + 3 lab/studio
Co-requisites: BIO 306.
Taught: Fall only-odd years
Laboratory to accompany BIO 306. Field trips.

BIO 309L Mycology Laboratory (0 credits)
Hours: 0 classroom + 2 lab/studio
Co-requisites: BIO 309.
Taught: Fall only-odd years
Laboratory to accompany BIO 309. Field trips.

BIO 310 Mycology (3 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: BIO 150.
Co-requisites: BIO 310L.
Taught: Variable, check with department
Morphology, identification, evolution, ecology, and culturing techniques of fungi.

BIO 311L Mycology Laboratory (0 credits)
Hours: 0 classroom + 2 lab/studio
Co-requisites: BIO 311.
Taught: Variable, check with department
Laboratory to accompany BIO 311.

BIO 312 Dendrology (3 credits)
Hours: 1 classroom + 0 lab/studio
Prerequisites: BIO 151.
Co-requisites: BIO 312L.
Taught: Fall only-even years
Identification and vegetational aspects of woody plants, especially those of eastern U.S.

BIO 312L Dendrology Laboratory (0 credits)
Hours: 0 classroom + 6 lab/studio
Co-requisites: BIO 312.
Taught: Fall only-even years
Laboratory to accompany BIO 312. Field trips.

BIO 313 General Botany (4 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: BIO 151.
Co-requisites: BIO 313L.
Taught: Spring only
Morphology; taxonomy; physiology; genetics; ecology; evolution.

BIO 313L General Botany Laboratory (0 credits)
Hours: 0 classroom + 4 lab/studio
Co-requisites: BIO 313.
Taught: Spring only
Laboratory to accompany BIO 313. Field trips.

BIO 320 Entomology (4 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: BIO 151.
Co-requisites: BIO 320L.
Taught: Fall only-even years
Anatomy, physiology, ecology, behavior, life cycles, classification, and economic effects of insects.

BIO 320L Entomology Laboratory (0 credits)
Hours: 0 classroom + 4 lab/studio
Co-requisites: BIO 320.
Taught: Fall only-even years
Laboratory to accompany BIO 320.

BIO 342 Biometrics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 151, BIO 151L, and STA 205.
Taught: Fall and spring
Statistical techniques for biological sciences. Fundamental experimental design, exploratory data analysis, parametric and non-parametric tests, and selected multivariate procedures as applied to biological data. Use of statistical software.

BIO 349 Genetics (4 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 151 and CHE 121.
Co-requisites: BIO 349L.
Taught: Fall and spring
Essential concepts in genetics and genomics; DNA and chromosomes, DNA replication, recombination and repair, mitosis and meiosis, Mendelian and non-Mendelian genetics, epigenetics, gene expression, and bioinformatics.
BIO 349L Genetics Laboratory (0 credits)
Hours: 0 classroom + 3 lab/studio
Co-requisites: BIO 349
Taught: Fall and spring
Laboratory to accompany BIO 349. Hands-on experience with basic genetics, bioinformatics, and molecular biology techniques.

BIO 358 Evolution of Organisms (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 349
Taught: Fall and spring
Experiential learning credits)
Mechanisms; historical and philosophical perspectives; empirical evidence; contemporary application.

BIO 360 Advanced Biology of the Cell (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 151, MAT 112 or 129 and STA 205.
Taught: Spring only
Application of basic mathematical models to biological topics such as population growth, Hardy-Weinberg principles and population genetics, competition and predation. Mathematical models include curve fitting, discrete and continuous models, separable differential equations and individual based models.

BIO 374 Biomathematics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 151, MAT 112 or 129 and STA 205.
Taught: Fall only
Structure and function of cellular organelles; role of energy, membranes, nucleic acids, and proteins in cellular regulation; nature of nerve impulse.

BIO 380 Human Cadaver Dissection (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: BIO 151 or BIO 208, and consent of instructor.
Taught: Summer only
Preparation of human cadavers for use in anatomy labs via surgical techniques of sharp and blunt dissection. This course is designed to enhance the student’s knowledge of anatomy but is not intended as a replacement for an anatomy course.

BIO 394 Externship: Biological Sciences (1-2 credits)
Hours: 1-2 classroom + 0 lab/studio
Prerequisites: BIO 151 and consent of instructor.
Taught: Fall, spring, and summer
Experiential learning at institutions, universities, or businesses specializing in a biological field. Course may be repeated for new externship project; up to 4 semester hours may be earned in this course. For students majoring or minoring in biological or environmental sciences.

BIO 395 Study Abroad in the Biological Sciences (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
An opportunity for students to engage in one or more departmentally-approved courses abroad; topic listed in schedule of classes when course is offered. May be repeated for credit when topics vary.

BIO 396 Practicum: Veterinary Medicine (1-2 credits)
Hours: 0 classroom + 4 lab/studio
Prerequisites: BIO 151 and consent of instructor and a local veterinarian.
Taught: Fall and spring
Work with a veterinarian specializing in large/small animals to learn skills and acquire practical information about this profession; up to 4 semester hours may be earned in this course. For pre-veterinary students.

BIO 399 Techniques of the Biological Sciences (1-2 credits)
Hours: 0 classroom + 3-6 lab/studio
Prerequisites: BIO 150 and consent of instructor prior to registration.
Taught: Fall, spring, and summer
Experience in media preparation; in herbarium, museum, and field techniques; in use of laboratory equipment; or in other practical facets of biology. Topics decided upon in consultation between student and instructor. Up to 4 semester hours may be earned in this course.

BIO 400 Advanced Molecular Biology (4 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: BIO 349 and CHE 311.
Co-requisites: BIO 400L. CHE 482 recommended.
Taught: Fall only
Introduction to principles of modern molecular biology; DNA and RNA structure and synthesis; protein synthesis; gene structure, expression, and regulation; recombinant DNA techniques; plant and animal models; transgenics; contemporary bioethics issues.

BIO 400L Advanced Molecular Biology Laboratory (0 credits)
Hours: 1-2 classroom + 0 lab/studio
Co-requisites: BIO 400.
Taught: Fall only
Laboratory to accompany BIO 400. DNA and RNA purification; DNA cloning and restriction enzyme analysis; plasmid vector screening and purification; Southern blotting; hybridization; polymerase chain reaction (PCR); bacterial cell transformation; fusion proteins.

BIO 402 Evolutionary Neurobiology (4 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 291W or PSY 311.
Co-requisites: BIO 402L.
Taught: Spring only-even yrs
Evolution, genetics and function of animal nervous systems from sponges to humans. Includes experience with classic models in neurobiology.

BIO 402L Evolutionary Neurobiology Laboratory (0 credits)
Hours: 0 classroom + 3 lab/studio
Co-requisites: BIO 402.
Taught: Spring only-even yrs
Laboratory to accompany BIO 402.

BIO 404 Herpetology (4 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 151. BIO 300 or BIO 303 recommended.
Co-requisites: BIO 404L.
Taught: Spring only-odd yrs
Evolution, classification, anatomy, physiology, behavior, and ecology of reptiles and amphibians; identification of local species.

BIO 404L Herpetology Laboratory (0 credits)
Hours: 0 classroom + 3 lab/studio
Co-requisites: BIO 404.
Taught: Spring only-odd yrs
Laboratory to accompany BIO 404. Field trips, including one weekend field trip.

BIO 406 Ecosystem Ecology (4 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 304.
Co-requisites: BIO 406L.
Taught: Fall only-even years
Interactions among living and nonliving components of ecosystems; ecosystem functions, services, and processes; trophic dynamics; temporal and spatial dynamics; climate change; pollution; ecosystem techniques and methods in field and lab.

BIO 406L Ecosystem Ecology Laboratory (0 credits)
Hours: 0 classroom + 3 lab/studio
Co-requisites: BIO 406.
Taught: Fall only-even years
Laboratory to accompany BIO 406.

BIO 407 Ornithology (4 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: BIO 151 with a grade of C- or better, or consent of instructor.
Co-requisites: BIO 407L.
Taught: Spring only-even yrs
Classification, anatomy, physiology, behavior, ecology, and field identification of birds. Field trips.
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<th>Course Code</th>
<th>Course Title</th>
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<td>BIO 407L</td>
<td>Ornithology Laboratory</td>
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<td>classroom + 4 lab/studio</td>
<td>BIO 407.</td>
<td>Spring only-odd yrs</td>
<td>Laboratory to accompany BIO 407. Field trips, including one weekend field trip.</td>
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<td>BIO 425L</td>
<td>Mammalian Anatomy and Physiology I Laboratory</td>
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<td>BIO 291W and CHE 121.</td>
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<td>BIO 441 Animal Physiological Ecology</td>
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<td>Animal Physiological Ecology Laboratory</td>
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<td>BIO 441.</td>
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**Course Descriptions**

**BIO 407L Ornithology Laboratory (0 credits)**

Hours: 0 classroom + 4 lab/studio

Co-requisites: BIO 407.

Taught: Spring only-odd yrs

Laboratory to accompany BIO 407. Field trips, including one weekend field trip.

**BIO 409 Biogeography (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 304.

Taught: Spring only-odd yrs

Present and past geographical distribution of organisms.

**BIO 410 Conservation Biology (4 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 304.

Co-requisites: BIO 410L.

Taught: Spring only-odd yrs

Study of biological diversity and the modern extinction crisis: history, ecology and evolutionary biology, population genetics, wildlife and environmental management.

**BIO 410L Conservation Biology Laboratory (0 credits)**

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 410.

Taught: Spring only-odd yrs

Laboratory to accompany BIO 410.

**BIO 422 Limnology (4 credits)**

Hours: 2 classroom + 0 lab/studio

Prerequisites: C- or better in BIO 151, BIO 304, and CHE 121. BIO 291W recommended.

Co-requisites: BIO 422L.

Taught: Variable, check with department

Physical, chemical, and biological properties of inland waters; organization of aquatic communities, phytoplankton, zooplankton, benthos, trophic dynamics, and eutrophication; limnological methods and techniques.

**BIO 422L Limnology Laboratory (0 credits)**

Hours: 2 classroom + 0 lab/studio

Co-requisites: BIO 422.

Taught: Variable, check with department

Laboratory to accompany BIO 422. Field trips.

**BIO 425 Mammalian Anatomy and Physiology I (4 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 291W and CHE 121; or consent of instructor.

Co-requisites: BIO 425L.

Taught: Fall only

Anatomical, histological, and physiological mechanisms of integumentary, skeletal, muscular, and nervous systems. First semester of a one-year course; students should follow this course with BIO 426.

**BIO 425L Mammalian Anatomy and Physiology I Laboratory (0 credits)**

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 425.

Taught: Fall only

Laboratory to accompany BIO 425.

**BIO 426 Mammalian Anatomy and Physiology II (4 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 425 or consent of instructor.

Co-requisites: BIO 426L.

Taught: Spring only

Regulation of physiological processes. Continuation of BIO 425.

**BIO 426L Mammalian Anatomy and Physiology II Laboratory (0 credits)**

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 426.

Taught: Spring only

Laboratory to accompany BIO 426.

**BIO 430 Immunology (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 302 and BIO 302L.

Taught: Spring only-odd yrs

Laboratory to accompany BIO 430.

**BIO 430L Immunology Laboratory (1 credit)**

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 302 and BIO 302L.

Taught: Spring only-odd yrs

Laboratory to accompany BIO 430.

**BIO 440 Animal Behavior (4 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisite OR Co-requisite: BIO 291W or PSY 311. COREQ: BIO 440L.

Taught: Spring only-odd yrs

Nervous systems and neurophysiology; classification, genetics, evolution, and ecology of behavior; developmental and social behavior.

**BIO 440L Animal Behavior Laboratory (0 credits)**

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 440.

Taught: Spring only-odd yrs

Laboratory to accompany BIO 440.

**BIO 441 Animal Physiological Ecology (4 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 304.

Co-requisites: BIO 441L.

Taught: Fall only-odd yrs

Internal adjustments by animals to physical changes at the organism-environment interface. Influence of the physical and biological characteristics of the external milieu on geographic, evolutionary, and temporal distribution of animals. Energetics, homeostasis, and adaptation, including role of behavior.

**BIO 441L Animal Physiological Ecology Laboratory (0 credits)**

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 441.

Taught: Fall only-odd years

Laboratory to accompany BIO 441.

**BIO 446 Plant Physiology (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 291W or ENV 291W and CHE 121.

Co-requisites: BIO 446L.

Taught: Spring only-odd yrs

Photosynthesis, cellular respiration, carbohydrate and protein metabolism, mineral nutrition, hormonal controls, and related topics in physiology of green plants.

**BIO 446L Plant Physiology Laboratory (1 credit)**

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 446.

Taught: Spring only-odd yrs

Laboratory to accompany BIO 446.

**BIO 452 Cancer Genetics (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 291W and BIO 349.

Taught: Fall only-odd years

Molecular and cellular bases of cancer; genetic changes that disrupt cell division, chromosome stability, cell movement, cell communication, and a variety of other essential cellular processes toward cancer development.

**BIO 455 Scanning Electron Microscopy (3 credits)**

Hours: 0 classroom + 6 lab/studio

Prerequisites: C- or better in BIO 151 or consent of instructor.

Taught: Spring only

Lecture-laboratory; theory and applications; phase contrast, polarizing, and transmission microscopes discussed for comparative purposes.

**BIO 460 Marine Biology (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 151 and BIO 291W.

Taught: Variable, check with department

Survey of physical, chemical, and biological oceanography; marine ecology, primary productivity, biodiversity, and marine ecosystems.

**BIO 460L Marine Biology Laboratory (1 credit)**

Hours: 0 classroom + 3 lab/studio

Prerequisite OR Co-requisite: BIO 460.

Taught: Summer only

Exercises and intensive field trip to coastal marine research laboratory.
BODY PROCESSES, AND HORMONAL DISORDERS.

HUMAN ENDOCRINE SYSTEM, HORMONAL CONTROL OF

PREREQUISITES: BIO 151 AND CHE 310.

HOURS: 3 CLASSROOM + 0 LAB/STUDIO

BIO 467 ENDOCRINOLOGY (3 CREDITS)

HOURS: 3 CLASSROOM + 0 LAB/STUDIO

PREREQUISITES: BIO 304.

TAUGHT: SPRING ONLY

UNIQUE FEATURES OF TROPICAL ECOSYSTEMS, ABIOTIC CHARACTERISTICS, GAP DYNAMICS BIODIVERSITY, PLANT-ANIMAL INTERACTIONS, ECONOMIC IMPORTANCE OF TROPICAL FORESTS, CAUSES AND CONSEQUENCES OF TROPICAL DEFORESTATION. BIO 303 RECOMMENDED.

BIO 468 TROPICAL ECOLOGY LABORATORY (1 CREDIT)

HOURS: 0 CLASSROOM + 10 LAB/STUDIO

PREREQUISITES: BIO 151. BIO 462 RECOMMENDED.

TAUGHT: VARIABLE, CHECK WITH DEPARTMENT

PRACTICAL EXPERIENCE IN STUDYING TROPICAL BIOTA. TAUGHT DURING SPRING BREAK AT LOCATION IN TROPICS EVERY OTHER YEAR.

BIO 469 REGIONAL BIOLOGY (3-4 CREDITS)

HOURS: 3-4 CLASSROOM + 0 LAB/STUDIO

PREREQUISITES: C- OR BETTER IN BIO 304 AND CONSENT OF INSTRUCTOR.

TAUGHT: VARIABLE, CHECK WITH DEPARTMENT

INTENSIVE STUDY OF FLORA AND/OR FAUNA OF A PARTICULAR REGION. MAY BE REPEATED ONCE FOR A DIFFERENT REGION.

BIO 470 MEDICAL MICROBIOLOGY (4 CREDITS)

HOURS: 3 CLASSROOM + 0 LAB/STUDIO

PREREQUISITES: BIO 302.

CO-REQUISITES: BIO 470L.

TAUGHT: FALL ONLY-ODD YEARS

PATHOGENIC BACTERIA AND VIRUSES; TECHNIQUES FOR ISOLATION, IDENTIFICATION, AND CONTROL OF SPECIFIC DISEASE AGENTS; FUNCTIONS OF THE IMMUNE RESPONSE IN PREVENTING AND PROMOTING DISEASE.

BIO 470L MEDICAL MICROBIOLOGY LABORATORY (0 CREDITS)

HOURS: 0 CLASSROOM + 2 LAB/STUDIO

PREREQUISITES: BIO 470.

TAUGHT: FALL ONLY-ODD YEARS

LABORATORY TO ACCOMPANY BIO 470.

BIO 475 VIROLOGY (3 CREDITS)

HOURS: 3 CLASSROOM + 0 LAB/STUDIO

PREREQUISITES: BIO 302.

TAUGHT: FALL ONLY-ODD YEARS

CLASSIFICATION, CHEMICAL COMPOSITION, MORPHOLOGY, GENETICS, AND REPLICATION OF VIRUSES, ACTION OF PHYSICAL AND CHEMICAL AGENTS ON VIRUSES; HOST RESPONSE TO VIRTUAL INFECTION.

BIO 491 COMPREHENSIVE EXAMINATION (0 CREDITS)

HOURS: 0 CLASSROOM + 0 LAB/STUDIO

PREREQUISITES: 20 HOURS OF UPPER-DIVISION COURSES IN BIOLOGICAL SCIENCES.

TAUGHT: FALL, SPRING, AND SUMMER

REQUIRES THE SUBMISSION OF A PROGRAM REFLECTION AND A WRITING SAMPLE FROM AN UPPER-DIVISION COURSE AS WELL AS COMPLETION OF AN EXAMINATION OF GENERAL CONCEPTS IN BIOLOGICAL SCIENCES. (PASS/FAIL)

BIO 492 DIRECTED RESEARCH: BIOLOGICAL SCIENCES (1-3 CREDITS)

HOURS: 0 CLASSROOM + 0-9 LAB/STUDIO

PREREQUISITES: BIO 291W AND CONSENT OF INSTRUCTOR.

TAUGHT: FALL, SPRING, AND SUMMER

DEVELOPMENT AND COMPLETION OF A SCIENTIFIC RESEARCH PROJECT CHOSEN IN CONSULTATION WITH INSTRUCTOR. FINAL PROJECT REPORT IS REQUIRED. UP TO 6 SEMESTER HOURS MAY BE EARNED IN THIS COURSE FOR STUDENTS MAJORING OR MINORING IN BIOLOGICAL SCIENCES AND ESPECIALLY FOR THOSE PLANNING FURTHER STUDY IN GRADUATE SCHOOL.

BIO 494 TOPICS: BIOLOGICAL SCIENCE (1-3 CREDITS)

HOURS: 1-3 CLASSROOM + 0 LAB/STUDIO

PREREQUISITES: JUNIOR OR SENIOR STANDING IN BIOLOGICAL SCIENCES.

TAUGHT: VARIABLE, CHECK WITH DEPARTMENT

IN-DEPTH STUDY OF SPECIALIZED SUBJECT MATTER. MAY BE REPEATED FOR CREDIT ONCE WHEN TOPIC VARIES.

BIO 496 ASSISTANT: BIOLOGY UNDERGRADUATE LABORATORY (1-2 CREDITS)

HOURS: 0 CLASSROOM + 2-4 LAB/STUDIO

PREREQUISITES: BIO 150, BIO 151, OVERALL GPA OF AT LEAST 3.00, AND CONSENT OF INSTRUCTOR PRIOR TO REGISTRATION.

TAUGHT: FALL, SPRING, AND SUMMER

PARTICIPATION IN PLANNING, SETTING-UP, TEACHING, CONDUCTING REVIEWS, AND TESTING IN AN UNDERGRADUATE LABORATORY COURSE. FOR STUDENTS MAJORING OR MINORING IN BIOLOGICAL SCIENCES. UP TO 4 SEMESTER HOURS MAY BE EARNED IN THIS COURSE.

BUSINESS INFORMATICS COURSES (BIS)

BIS 101 COMPUTER LITERACY AND INFORMATICS (3 CREDITS)

HOURS: 3 CLASSROOM + 0 LAB/STUDIO

TAUGHT: FALL, SPRING, AND SUMMER

UNDERSTANDING THE BASIC CONCEPTS OF INFORMATICS IN A CONTEXT INCLUDING COMPUTER TECHNOLOGY; EXAMINATION OF HARDWARE AND SOFTWARE; IMPACT COMPUTERS HAVE ON SOCIETY INCLUDING EMPLOYMENT, PRIVACY, ETHICS, AND SECURITY; WORKING WITH INFORMATION AS A RESOURCE. THE COURSE INCLUDES COMPUTER LABORATORY EXERCISE IN OFFICE (WORD, EXCEL, POWERPOINT, ACCESS) AND INTERNET TECHNOLOGY APPLICATIONS.

BIS 111 PROBLEM SOLVING AND CREATIVEITY (3 CREDITS)

HOURS: 3 CLASSROOM + 0 LAB/STUDIO

TAUGHT: FALL, WINTER, SPRING AND SUMMER

THIS CLASS WILL INTRODUCE STUDENTS TO THE CONCEPTUAL MODELS (SCRIPTS, TEMPLATES, ETC.) USED IN UNDERSTANDING HOW WE THINK AND THEREFORE HOW TO STIMULATE THINKING. STUDENTS WILL BE ASKED TO APPLY TOOLS AND TECHNIQUES BOTH INDIVIDUALLY AND IN GROUPS. TOOLS AND TECHNIQUES WILL BE APPLIED TO Legitimate problems in a problem based learning environment.

GENERAL EDUCATION CREDIT: INDIVIDUAL AND SOCIETY

BIS 275 INTRODUCTION TO BUSINESS ANALYSIS (3 CREDITS)

HOURS: 3 CLASSROOM + 0 LAB/STUDIO

TAUGHT: SPRING ONLY

INTRODUCES STUDENTS TO THE UNDERLYING CONCEPTS AND TOOLS OF BUSINESS OPERATIONS AND DATA ANALYSIS. THESE CONCEPTS AND TOOLS ARE THE FOUNDATION OF AN INFORMATICS PROFESSIONAL’S ABILITY TO ASSESS BUSINESS OPERATIONS AND ANALYZE DATA FOR BUSINESS DECISIONS.
BIS 300 Management Information Systems (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing, STA 212 or STA 205 or STA 250 or BIS 275 and demonstrated competency in Word, Excel and PowerPoint, e.g., completion of INF 101 or equivalent transfer work or placement.
Taught: Fall, Spring, and Summer
Principles of MIS designed to introduce students to the fundamentals of Management Information Systems and to apply problem-solving skills in Excel, Access, and Web development.

BIS 305 Advanced Business Programming (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: INF 110 or INF 120.
Taught: Fall only
Computer software design and programming in an applications development environment; systems design, programming techniques, and language syntax for developing computer-based business systems; programming system methodologies.

BIS 310 Information Systems Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: INF 110 or INF 120 and junior standing.
Taught: Spring only
The systems development life cycle; systems analysis and general design; analysis strategies, tools, and techniques for documenting current systems and developing proposed systems; systems modeling, data modeling, design criteria, cost/benefit trade-offs, and project management; development of a comprehensive systems analysis project.

BIS 330 IT Project Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing or consent of chair.
Taught: Fall and Spring
This course provides students knowledge and skills pertaining to IT Project Management. It exposes students to the knowledge requirements for managing information technology projects and fosters development of skills pertaining to the use of computer software for project management.

BIS 357 Enterprise Resource Planning Using SAP (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIS 300 or permission of the department.
Taught: Spring only-even yrs
Enterprise Resource Planning Using SAP. The class provides a basic understanding of business processes and integrates the knowledge from other functional areas such as marketing, finance, and accounting. Students will gain an appreciation for the role of an enterprise system in managing business processes spanning multiple functional perspectives.

BIS 380 Quantitative Analysis with Excel (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: INF 101 (or equivalent), ACC 200, STA 212, or permission of instructor.
Taught: Spring only
Business decisions require the basic skills of analyzing data to understand the problem more completely and to produce better answers. The business environment uses tools and techniques to accomplish this analysis. This course is designed to introduce students to those tools and techniques and how they can be automated.

BIS 382 Principles of Information Security (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIS 300 or equivalent.
Taught: Fall only
An introduction to the various technical and administrative aspects of Information Security and Assurance. This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features.

BIS 384 Business Analytics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: STA 205, or STA 212, or STA 250.
Taught: Fall only
Will examine real world application of statistical, information systems, and decision science methodologies for descriptive, prescriptive and predictive analysis in business planning and decision making. Students will be exposed to an integrated set of computer-based business analytical tools.

BIS 386 Business Analytics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: STA 205, or STA 212, or STA 250.
Taught: Fall only
Will examine real world application of statistical, information systems, and decision science methodologies for descriptive, prescriptive and predictive analysis in business planning and decision making. Students will be exposed to an integrated set of computer-based business analytical tools.

BIS 389 Independent Study (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: junior standing, declared BIS minor or business major or College of Informatics major or permission of the BIS department.
Taught: Variable, check with department
Student investigation of a topic or completion of a project. Meeting times arranged with instructor.

BIS 402 Programming for E-Business (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIS 305 or equivalent; junior standing.
Taught: Variable, check with department
Employ technologies, tools, and practices for development of corporate Intranets and the Internet for information management and electronic commerce; coverage of Internet working technologies, site design, content development languages and components, and data management techniques; development of web-based sites for business and commercial operations.

BIS 420 Business Intelligence & Enterprise Applications (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing; certified major in business informatics or consent of department.
Taught: Variable, check with department
This course explores business intelligence concepts and technologies and their application in business organizations. It also focuses on enterprise systems that facilitate the planning and use of organizational databases to implement decision support systems, data warehousing and data mining systems and executive support systems to improve organizational performance.

BIS 430 Workflow Design and Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Declared BIS minor, or certified business major or College of Informatics major or permission of the BIS department.
Taught: Variable, check with department
This course provides learners a managerial introduction to ideas pertaining to the analysis, design and management of both organizational and inter-organizational business processes. It focuses on workflow management issues at the individual, group and organizational levels. Business methodologies and practices from industry such as business process reengineering, customer relationship management, and supplier chain management are used to contextualize theoretical ideas pertaining to process analysis and workflow management. The relationship between process innovation methods and strategic business models is also explored and learners are exposed to software and optimization tools pertaining to process modeling and workflow simulation.
BIS 435 Database Management Systems (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: INF 282 and certified major in business informatics or consent of chair.
Taught: Fall only
Concepts and techniques of data organization and access; basic data structures, file organization and processing, database modeling and processing, database management systems, database analysis and design, data administration, and implementing databases in a client/server architecture.

BIS 440 Global Information Technology Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing; certified major in business informatics or consent of instructor.
Taught: Variable, check with department
This course provides insight into issues relating to international information systems that serve global markets and facilitate expansion and entry of businesses into global information systems and the management of international outsourcing projects are also emphasized. Cross-cultural and ethical issues pertaining to international information systems are emphasized.

BIS 485 Strategic Information Systems Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
This course enables future managers of MIS to better utilize information technologies for competitive advantage. It also focuses on managerial techniques for setting the direction for organizational IT resource planning and the development of IT policies and strategies for complex business environments. By integrating pertinent theories and business cases the following topics will be explored: effects of IT on competition;

BIS 494 Topics: Information Systems (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Senior standing; certified major in business informatics.
Taught: Variable, check with department
Selected topics in computer based information systems. Offered periodically with topics announced in advance. Open only to students certified as majoring in information systems. May be repeated to a maximum of 6 semester hours.

BIS 499 Independent Study: Information Systems (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Senior standing; declared BIS minor, or certified business major, or College of Informatics major, or permission of the BIS department.
Taught: Variable, check with department
Student investigation of a topic or completion of a project. Meeting times arranged with instructor.

BIS 594 Topics in Business Informatics (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Varies by topic.
Taught: Variable, check with department
Topics on business analytics and other areas of business informatics. Topics vary by semester. Repeatable for a maximum of up to 6 semester hours when topics vary.

MBI 599 Independent Study (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Independent project or intensive study/research with faculty guidance. Open only by consent of advisor/instructor. Meeting times arranged with instructor.

Black Studies Courses (BLS)

BLS 100 Introduction to Black Studies - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
This course is designed to engage students in the study of the seven core areas of Black studies: Black History, Black Sociology, Black Religion, Black Economics, Black Politics, Black Psychology, and the humanities (Black Literature, Art, and Music).

General education credit: Cultural Pluralism

BLS 494 Topics: Black Studies (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Study of selected topics. Subfields will be chosen in keeping with the interest of the instructor in charge and will be listed in the Schedule of Classes. May be repeated for credit when topics vary.

Business Courses (BUS)

BUS 101 Introduction to Business (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Basic knowledge of organizational structures, business functions, and types of business enterprises; assistance in decisions about majors and careers; socialization to expectations and behaviors associated with careers in business. Open only to students with fewer than 45 earned hours, or by consent of instructor.

BUS 101H Honors Introduction to Business (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Basic knowledge of organizational structures, business functions, and types of business enterprises; assistance in decisions about majors and careers; socialization to expectations and behaviors associated with careers in business. Open only to students with fewer than 45 earned hours, or by consent of instructor.

BUS 230 Legal Environment (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Fall and spring
Concepts in legal environment; ethical considerations in business decisions; broad overview of judicial process, legal systems, contracts, torts, environmental and international issues, employment law, and consumer protection.

BUS 250 Selected Business Topics in International Settings (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing and others as determined by instructor.
Taught: Variable, check with department
Learning experiences outside the United States sponsored by Cooperative Center for Study Abroad, the COB’s International Business Center or the Office of International Programs. Includes preparatory assignments, international travel and, if applicable, follow-up meetings or assessment activities.

BUS 330 Ethics: Managerial Decision Making (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BUS 230 and junior standing.
Taught: Fall and spring
Application of ethics to decision-making in business; case method, discussion and presentations. BUS 230 and junior standing.

BUS 360 Selected Business Topics in International Settings (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing and other as determined by topic and instructor.
Taught: Variable, check with department
Learning experience outside the United States sponsored by the Cooperative Center for Study Abroad, the COB’s International Business Center or the Office of International Programs. Includes preparatory assignments, international travel and, if applicable, follow-up meetings or assessment activities.
BUS 394 Topics: Legal Environment (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Variable, check with department
Topics vary and will be listed in the Schedule of Classes. Repeatable to 6 semester hours.

BUS 396 Internship: Business (2-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior or senior standing and consent of instructor; declared major in any bachelor's program.
Taught: Variable, check with department
Supervised non-paid work experience at corporations in Greater Cincinnati related to student major or minor, and coordinated by a member of the participating organization and a member of the department faculty. Interested students must submit applications to the department chair.

College of Arts and Sciences Courses (CAS)

CAS 101 Cultivating Academic Success (0-1 credits)
Hours: 0-1 classroom + 0 lab/studio
Prerequisites: Permit required by the College of Arts & Sciences Advising Center.
Taught: Variable, check with department
This course is designed for students to cultivate academic skills that will assist them in becoming successful in the College of Arts & Sciences. It will provide information on topics with which many students constantly struggle such as time management, study and test taking strategies, money management and grade management.

Cooperative Education Courses (CEP)

CEP 101 Career Development (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: Completion of one semester of college coursework.
Taught: Fall and spring
Comprehensive overview of the career planning process; techniques of self assessment and career exploration; skills of decision making and job search.

CEP 300 Cooperative Education (1-3 credits)
Hours: 0 classroom + variable lab/studio
Taught: Fall, spring, and summer
Supervised work experience relating to a student's academic major; employment learning experience planned, supervised, and coordinated by employer, faculty coordinator, and a member of the Career Services staff. Cooperative Education is open to most majors on campus. Students must complete an informational session in the Career Services prior to enrollment. Academic credits are awarded for the cooperative work experience on a variable scale. Repeatable for up to 12 hours.

Chemistry Courses (CHE)

CHE 102 Introduction to Chemistry (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: A minimum score of 19 on the ACT math section or equivalent.
Taught: Fall and spring
Selected essential topics in chemistry, including solutions, reactions, stoichiometry, and properties of gases, liquids, and solids. Prerequisite for CHE 115 and CHE 120 for those who did not study chemistry in high school or are not prepared for CHE 115 or CHE 120. NOT a general education course. (Formerly CHE 110)

CHE 105 Discovering Chemistry with Laboratory - SL (4 credits)
Hours: 3 classroom + 2 lab/studio
Taught: Fall and spring
Integrated lecture and laboratory; basic principles of chemistry and their applications in daily life; promotion of reasoning and problem-solving skills by utilizing computer-based technologies and hands-on, discovery/inquiry, and cooperative learning approaches. For all non-science students and students majoring in education. Cannot be taken for credit by students who have passed CHE 112.
General education credit: Natural Science

CHE 112 Chemistry and Society - NS (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
Basic principles of chemistry and their applications in society. For students not majoring in science. Enrollment in CHE 112L is recommended but not required. Cannot be taken for credit by students who have passed CHE 105.
General education credit: Natural Science

CHE 112L Chemistry and Society Laboratory - SL (1 credit)
Hours: 0 classroom + 2 lab/studio
Prerequisite OR Co-requisite: CHE 112.
Taught: Fall and spring
Simple laboratory techniques in experiments designed to study the properties of model compounds and consumer products; synthesis and analysis of common materials.
General education credit: Natural Science

CHE 115 Physiological Chemistry - NS (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: High school chemistry and a minimum score of 19 on ACT math section or equivalent; or a C- or better in CHE 102.
Co-requisites: CHE 115L
Taught: Fall, spring, and summer
General, organic, and biological chemistry of the body. Not applicable toward a major or minor in the natural sciences.
General education credit: Natural Science

CHE 115L Physiological Chemistry Laboratory - SL (1 credit)
Hours: 0 classroom + 2 lab/studio
Co-requisites: CHE 115.
Taught: Fall, spring, and summer
Laboratory examination of chemical and biochemical principles.
General education credit: Natural Science

CHE 120 General Chemistry I - NS (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: High school chemistry and a minimum score of 22 on the ACT math section or equivalent; OR a B- or better in CHE 102.
Co-requisites: CHE 120L.
Taught: Fall and spring
Principles of chemistry; physical and chemical properties of elements and compounds.
General education credit: Natural Science

CHE 120L General Chemistry I Laboratory - SL (1 credit)
Hours: 0 classroom + 3 lab/studio
Co-requisites: CHE 120.
Taught: Fall and spring
Experiments describing principles of chemistry as well as those describing physical and chemical properties of elements and compounds.
General education credit: Natural Science

CHE 120H Honors General Chemistry I - NS (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: High school chemistry and a minimum score of 25 on the ACT math section and 26 on the ACT English section or equivalent.
Co-requisites: CHE 120 HL.
Taught: Fall only
Principles of chemistry; physical and chemical properties of elements and compounds.
General education credit: Natural Science

CHE 120HL Honors General Chemistry I Lab - SL (1 credit)
Hours: 0 classroom + 3 lab/studio
Co-requisites: CHE 120H.
Taught: Fall only
Experiments describing principles of chemistry as well as those describing physical and chemical properties of elements and compounds.
General education credit: Natural Science...
CHE 121 General Chemistry II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CHE 120 or CHE 120H.
Taught: Spring and summer
Continuation of CHE 120. Enrollment in CHE 121L is strongly encouraged but is not required.

CHE 121L General Chemistry II Laboratory (1 credit)
Hours: 0 classroom + 3 lab/studio
Prerequisites: C- or better in CHE 120L or CHE 120HL.
Prerequisite OR Co-requisite: CHE 121.
Taught: Spring and summer
Continuation of CHE 120L.

CHE 121H Honors General Chemistry II - NS (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CHE 120H or consent of instructor.
Co-requisites: CHE 121HL.
Taught: Spring only
Continuation of CHE 120H.

General education credit: Natural Science

CHE 125 Introduction to Chemistry & Biochemistry (1 credit)
Hours: 1 classroom + 0 lab/studio
Prerequisites: Major in chemistry or biochemistry.
Co-requisites: CHE 120 or CHE 120H.
Taught: Fall and spring
Introduction to chemistry and biochemistry majors, careers in chemical and related fields, introduction to department research opportunities.

CHE 292 Introductory Chemical Research (0 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Fall and spring
Introduction to chemical research by participating in a special project or original research directed by a member of the chemistry faculty. Course intended for science majors interested in chemistry research but not ready or able to enroll in CHE 492. May only be taken once; pass/fail grade only.

CHE 305 Main Group Chemistry (1 credit)
Hours: 1 classroom + 0 lab/studio
Prerequisites: C- or better in CHE 121 or 121H.
Taught: Variable, check with department
Detailed study of the elements found in groups 1, 2, 13-18; sources, reactions, representative compounds.

CHE 310L Organic Chemistry I Laboratory (1 credit)
Hours: 0 classroom + 3 lab/studio
Prerequisites: C- or better in CHE 121 or 121H.
Prerequisite OR Co-requisite: CHE 310.
Taught: Fall and spring
Introduction to the laboratory practice of organic chemistry; techniques and separations.

CHE 310L Organic Chemistry I Laboratory (1 credit)
Hours: 0 classroom + 3 lab/studio
Prerequisites: C- or better in CHE 121 or 121H.
Prerequisite OR Co-requisite: CHE 310.
Taught: Fall and spring
Introduction to the laboratory practice of organic chemistry; techniques and separations.

CHE 311L Organic Chemistry II Laboratory (1 credit)
Hours: 0 classroom + 3 lab/studio
Prerequisites: C- or better in CHE 121L or 121HL.
Prerequisite OR Co-requisite: CHE 310.
Taught: Fall and spring
Introduction to the laboratory practice of organic chemistry; techniques and separations.

CHE 311L Organic Chemistry II Laboratory (1 credit)
Hours: 0 classroom + 3 lab/studio
Prerequisites: C- or better in CHE 121L or 121HL.
Prerequisite OR Co-requisite: CHE 310.
Taught: Fall and spring
Introduction to the laboratory practice of organic chemistry; techniques and separations.

CHE 320L Inorganic Chemistry Laboratory (2 credits)
Hours: 0 classroom + 6 lab/studio
Prerequisites: C- or better in CHE 310L.
Co-requisites: CHE 320L.
Taught: Spring only
Advanced laboratory synthesis, purification, and characterization of inorganic compounds; application of techniques in primary literature.

CHE 325 Organometallic Chemistry (1 credit)
Hours: 1 classroom + 2 lab/studio
Prerequisites: C- or better in both CHE 310L and CHE 310L.
Taught: Variable, check with department
Properties and uses of organometallic compounds; synthesis, purification, and characterization of organometallic compounds using current methods.

CHE 330 Chemistry of Materials (1 credit)
Hours: 1 classroom + 2 lab/studio
Prerequisites: C- or better in CHE 121 or 121H.
Taught: Variable, check with department
Introduction to the chemistry of materials. Structure-property relations, including self-organization, magnetic properties, and nanostructures. Introduction to characterization methods used in the chemistry of materials.

CHE 340 Analytical Chemistry (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CHE 121 or CHE 121H.
Prerequisites: CHE 340L.
Taught: Fall only
Chemical and stoichiometric principles; gravimetric, volumetric, and spectrophotometric analysis.

CHE 340L Analytical Chemistry Laboratory (2 credits)
Hours: 0 classroom + 6 lab/studio
Prerequisites: CHE 121L or 121HL.
Co-requisites: CHE 340L.
Taught: Fall only
Quantitative determination of the elements; traditional chemical methods and some instrumental methods of analysis.

CHE 345 Electronics for Scientists and Engineers (1 credit)
Hours: 1 classroom hour; 0 lab/studio
Prerequisites: CHE 340 and CHE 350 OR EGT 161.
Taught: Summer only
Study of analog and digital circuitry, including the usage of Arduino and raspberry pi technology. Application of these technologies for the design and construction of basic scientific instrumentation for chemical analysis.

CHE 350 Instrumental Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CHE 340 and CHE 340L.
Co-requisites: CHE 350L.
Taught: Spring only
Analytical techniques involving modern chemical instruments.
CHE 350L Instrumental Analysis Laboratory (2 credits)
Hours: 0 classroom + 6 lab/studio
Prerequisite OR Co-requisite: CHE 391W.
Co-requisite: CHE 350.
Taught: Spring only
Experiments designed to familiarize students with modern analytical instruments.

CHE 360 Physical Chemistry I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in both CHE 121 and MAT 229 or equivalent.
Prerequisite OR Co-requisite: PHY 222 or PHY 213.
Taught: Fall only
Emphasis on specific writing methods used in the chemistry faculty. May be repeated for different lab courses for a total of no more than three credit hours. May not be used for the chemistry minor.

CHE 361 Physical Chemistry II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CHE 360 and MAT 228 or MAT 229 and PHY 222 or PHY 213.
Taught: Spring only
Kinetic molecular theory of gases, chemical kinetics, transport processes, elementary quantum chemistry, and spectroscopy.

CHE 362L Physical Chemistry Laboratory (2 credits)
Hours: 0 classroom + 6 lab/studio
Prerequisite OR Co-requisite: CHE 361 and CHE 391W.
Taught: Spring only
Experiments in thermodynamics, chemical kinetics, transport properties, spectroscopy, and elementary quantum chemistry.

CHE 365 Molecular Modeling (1 credit)
Hours: 1 classroom + 2 lab/studio
Prerequisites: C- or better in CHE 310.
Taught: Variable, check with department
Introduction to computer-based molecular modeling using molecular mechanics, molecular orbital theory, and density functional theory. Calculation of equilibrium and transition-state geometries, spectroscopic properties, and reaction energies. Modeling of structures of biopolymers and docking of ligands into protein binding sites.

CHE 391W Chemical Information and Writing - WC (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or ENG 151H, Chemistry major and one upper division chemistry course.
Taught: Fall and spring
Use and analysis of chemical information sources. Emphasis on specific writing methods used in chemistry such as abstracts, reports, grants and grant reviews.

CHE 392 Advanced Laboratory Projects (1-3 credits)
Hours: 0 classroom + 3-9 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
The study of published syntheses and other chemical reactions and experiments to develop usable protocols, procedures, or laboratory experiments. Directed by a member of the chemistry faculty. May be repeated for different lab courses for a total of no more than three credit hours. May not be used for the chemistry minor.

CHE 394 Topics: Chemistry (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: C- or better in CHE 310 or consent of instructor.
Taught: Variable, check with department
Various topics of interest in chemistry. Can be repeated for up to 6 hours as topics vary.

CHE 396 Practicum: Chemistry (1 credit)
Hours: 1 classroom + 0 lab/studio
Prerequisites: Consent of instructor and completion of the designated course with a grade of B or better.
Taught: Variable, check with department
Participation in planning, teaching, and testing in a designated undergraduate chemistry course. Designed especially for students majoring in chemistry and in science education. Up to 2 semester hours may be earned in this course. Does not count toward a major or minor in chemistry.

CHE 397 Independent Study in Chemistry (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: 20 semester hours of chemistry and consent of instructor.
Taught: Variable, check with department
Independent study of literature; written reports on selected topics. Repeatable for a maximum of 4 semester hours.

CHE 400 Chemistry Seminar (1 credit)
Hours: 1 classroom + 0 lab/studio
Prerequisites: CHE 391W and an additional 20 semester hours of chemistry.
Taught: Fall and spring
Use of chemical literature searching and analysis techniques to prepare and present seminars and written reports.

CHE 410 Spectrometric Identification of Compounds (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CHE 310.
Taught: Spring only-odd yrs
Interpretation of data obtained by mass spectrometric analysis and by infrared, ultraviolet/visible, and nuclear magnetic resonance spectroscopic analyses as applied to the establishment of structure.

CHE 440 Environmental Chemistry (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in both CHE 311 and CHE 340.
Taught: Spring only-odd yrs
Chemistry as it applies to environmental problems and their solutions; analytical methods, energy needs, and biochemical application.

CHE 450 Advanced Chemical Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CHE 340 and junior standing.
Taught: Fall only-even yrs
Investigation of sample preparation, surface science, microfabrication and advanced electrochemical techniques required for advanced chemical analyses.

CHE 460 Molecular Spectroscopy (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: C- or better in CHE 311, C- or better in CHE 350, C- or better in CHE 350L.
Co-requisites: CHE 460L.
Taught: Fall only-even yrs
Principles of molecular spectroscopy, including group theory. Modern spectroscopic techniques and their applications.

CHE 460L Molecular Spectroscopy Laboratory (2 credits)
Hours: 0 classroom + 6 lab/studio
Co-requisites: CHE 460.
Taught: Fall only-even yrs
Experiments using modern molecular spectroscopic techniques.

CHE 482 Biochemistry I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CHE 311.
Taught: Fall only-even yrs
Introduction to the chemistry of the molecules of life: carbohydrates, proteins, lipids; protein structure and function; enzyme mechanisms; membrane structure and function; introduction to metabolism.

CHE 482L Biochemistry I Laboratory (1 credit)
Hours: 0 classroom + 3 lab/studio
Prerequisite OR Co-requisite: CHE 482 and CHE 391W or BIO 291W.
Taught: Fall only-even yrs
Introduction to basic laboratory techniques and concepts in biochemistry, such as the preparation of buffers, spectroscopic determination of protein concentration, gel electrophoresis, column chromatography, and enzyme kinetics.
CHE 483 Biochemistry II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CHE 482.
Taught: Spring only
Metabolism, biosynthesis of cell components, nucleic acid replication, protein synthesis, DNA recombination, hormone action.

CHE 483L Biochemistry II Laboratory (1 credit)
Hours: 0 classroom + 3 lab/studio
Prerequisites: CHE 482L.
Co-requisites: CHE 483.
Taught: Spring only
Application of modern biochemical techniques in a research setting. Students will conduct experiments on various topics from defined categories, prepare a detailed plan using the scientific literature, perform the experiments independently, and present their findings in a formal report and poster presentation.

CHE 492 Research: Chemistry (1-3 credits)
Hours: 0 classroom + 6-18 lab/studio
Prerequisites: Consent of both instructor and chair of chemistry.
Taught: Fall, spring, and summer
Special project or original research directed by a member of the chemistry faculty. Most projects require at least two semesters of work. Upon agreement of student, instructor, and chair, some of the work may be completed outside of the normal semester calendar. Repeatable for a combined maximum of 12 semester hours. Does not apply toward a minor in chemistry.

CHE 505 The History of Chemistry (2-3 credits)
Hours: 2-3 classroom + 0 lab/studio
Prerequisites: CHE 310.
Taught: Variable, check with department
Survey of chemistry's significance in ancient and modern times. Investigation of key individuals and concepts in chemistry of the past and present.

CHE 511 Natural and Medicinal Product Synthesis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CHE 311.
Taught: Variable, check with department
Analysis and design of complex syntheses, including total synthesis of natural products; stereochemical aspects of synthesis; asymmetric synthesis, spectroscopy in structure elucidation.

CHE 512 Physical Organic Chemistry (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CHE 360 and a C- or better in CHE 311.
Taught: Variable, check with department
Current topics in spectroscopy, reaction mechanisms, and structure function correlations.

CHE 560 Quantum Mechanics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CHE 361 or PHY 361.
Taught: Variable, check with department
Principles of quantum mechanics, the hydrogen atom, variational methods, and simple perturbation theory. Same as PHY 460.

CHE 594 Topics in Chemistry (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Discussion of topics in analytical, environmental, inorganic, nuclear, organic, and physical chemistry; chemistry-related topics: laboratory experience with operation and application of instruments and the computer. May be repeated as topics vary.

Chinese Courses (CHI)

CHI 101 Elementary Chinese - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Fundamentals; introduction to Chinese culture; basic skills in conversation, pronunciation, reading, and writing in pinyin (Romanized Chinese) and ideograms traditional and simplified.
General education credit: Culture and Creativity

CHI 102 Elementary Chinese II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CHI 101 or equivalent.
Taught: Spring only
Continuation of CHI 101; additional practice in conversation, pronunciation, reading, writing, and use of ideograms.

CHI 199 Independent Study: Chinese (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Variable, check with department
Practice in Chinese language.

CHI 201 Intermediate Chinese I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CHI 102 or equivalent.
Taught: Variable, check with department
Review and extension of basic language skills learned in CHI 101 and CHI 102; reading and discussion of cultural, linguistic, and literary subject.

CHI 202 Intermediate Chinese II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CHI 201 or equivalent.
Taught: Variable, check with department
Continuation of grammar review and enhancement of language skills begun in CHI 201; consideration of cultural, linguistic, and literary subjects.

CHI 299 Independent Study: Chinese (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: CHI 101 and CHI 102.
Taught: Fall and spring
Intermediate practice in Chinese Language.

CHI 350 Methods of Teaching Chinese (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CHI 202 or equivalent.
Taught: Variable, check with department
Theoretical and practical considerations of teaching Chinese in American schools; required of all students seeking teaching certification in Chinese.

CHI 380 Topics in Advanced Chinese (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CHI 202 or consent of instructor.
Taught: Variable, check with department
Advanced study of Chinese language, literature, and culture. May be repeated for credit when topics vary.

CHI 499 Independent Study: Chinese (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Readings in language, literature and culture.

CHI 520 Readings in Chinese (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CHI 380 or equivalent.
Taught: Variable, check with department
Various literary, linguistic, cultural, and pedagogical topics. May be repeated for credit when topic varies.

Cinema Studies Courses (CIN)

CIN 200 Introduction to Cinema Studies (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Basic elements of movie form, narrative structure, and style; concepts of genre; strategies of analyzing and writing about cinema.

CIN 201 Survey of World Cinema (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
Origins and development of cinema as an international medium of expression. Relation of form and content to specific global cultures and contexts.

CIN 202 Survey of US Cinema (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Origins and development of cinema as a multicultural medium of expression in the U.S.
CIT 299 Independent Study (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Directed study.

CIT 494 Studies in Cinema (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CIT 200 or CIT 201 or CIT 202.
Taught: Variable, check with department
Advanced study of a particular genre, national cinema, director, or other topic in cinema studies.
May be repeated for credit when topics vary.

Computer Information Technology Courses (CIT)

CIT 130 Information Technology Fundamentals (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: C- or better in MAHD 089 or placement.
Taught: Fall and spring
Introduction to the organization of computers, operating systems, and networks; comparison of common operating systems; hands-on experience in PC construction and configuration; command-line usage of Windows and Unix/Linux systems; data representation; overview of the information technology industry and its societal context.

CIT 247 Networking Fundamentals (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CIT 130.
Taught: Fall and spring
Data link control, communications network techniques, network protocols (IP, TCP, UDP); planning and deploying a LAN; wireless networking; routing; security; introduction to Cisco IOS.

CIT 271 Windows Administration (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CIT 247 and INF 120.
Taught: Fall and spring
Organization of the Windows operating system; installation, configuration and recovery; scripting using batch files; user management; basic server administration and directory services.

CIT 292 Research Experience in CIT (0 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Varies.
Taught: Variable, check with department
Introduction to research in computer information technology by participation in a special project or research directed by an appropriate faculty member. Course intended for computer information technology majors interested in CIT research but not ready or able to enroll in more advanced research courses. Pass/fail grade only. Course may be repeated twice.

CIT 299 Independent Study (3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: consent of instructor.
Taught: Variable, check with department
Directed study.

CIT 371 Unix Systems (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in INF 120 and C- or better in either CIT 247 or INF 284.
Taught: Fall and spring
Advanced usage and basic administration of Unix/Linux systems, including management of files, users and processes, tools for editing and pattern matching, shell scripting, and software installation.

CIT 383 Scripting I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in INF 120, either MAT 185 or MAT 385 and either CIT 271 or CIT 371.
Taught: Fall and spring
Programming in a dynamically typed scripting language, including interfacing to operating system and network services and automation of common system administration tasks.

CIT 394 Intermediate Topics: Computer Information Technology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Various topics in Computer Information Technology.

CIT 396 Computer Information Technology Practicum (1-3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: CIT major, junior standing and approval of instructor.
Taught: Variable, check with department
Students work on information technology projects and make use of project management techniques that allow them to apply academic knowledge to real world situations. Up to 3 hours can count toward the data science major.

CIT 399 Independent Study (3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: consent of instructor.
Taught: Variable, check with department
Directed study.

CIT 430 Computer Forensics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CIT 480.
Taught: Fall and spring
Computer and network forensics principles; incident response process; forensic duplication and analysis; reconstruction of computer activities; network-based evidence for intrusions; forensics tools.

CIT 436 Web Server Administration (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in INF 286 and CIT 371.
Taught: Fall and spring
Web server administration concepts; installing and configuring a web server; proxy server; name resolution; web server security and maintenance; server-side technologies and tools; monitoring and analyzing the web environment.

CIT 447 Network Design/Troubleshooting (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CIT 247.
Taught: Fall and spring
Network and transport protocols; switch and router configuration; network topologies, network design, and routing; VLANs; capacity planning and redundancy; routing protocols; wide-area networks; layer 2 and layer 3 troubleshooting; IPv4 and IPv6; network management and security.

CIT 451 Advanced Windows System Administration (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CIT 271.
Taught: Variable, check with department
Active directory configuration, network infrastructure configuration, application infrastructure configuration; specific topics include Active Directory and its security, Domain Name System, DHCP infrastructure, routing, remote access, advanced firewall and network access protection, IIS security, FTP, SMTP, Media Server.

CIT 465 Storage Administration (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CIT 371.
Taught: Variable, check with department
This course covers information storage and management, storage system environment, disks, RAID, logical volume management, storage networking fundamentals, direct attached storage, storage area networks, network attached storage, content addressed storage, storage virtualization, data backup and recovery.

CIT 470 Advanced Network and System Administration (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CIT 371 and CIT 382.
Taught: Fall and spring
Administrating networks of computer systems as a team; user account management and LDAP; network file systems; e-mail servers; automated installs; help desk software and management; and data centers.
CIT 472 Database Administration (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in INF 282, CIT 271 and either CSC 260 or CIT 383.
Taught: Fall and spring
Database administration concepts; procedural extensions to SQL; installing and configuring a database server; creating and configuring database instances; user management and security; backup and monitoring activities.

CIT 480 Securing Computer Systems (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CIT 371.
Taught: Fall and spring
An introduction to the concepts and technologies of computer security, with a focus on the practical aspects of securing computers, including common security threats and computer crime, authentication, cryptography, malware, operating systems security, and network security.

CIT 481 Cybersecurity Capstone (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in STA 205 and INF 282 and CIT 480.
Taught: Variable, check with department
Advanced security topics including system hardening; cloud security; information assurance architectures; secure network design; and penetration testing. Students will research an advanced topic of their choice in information security and write a research paper on that topic.

CIT 483 Scripting II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CIT 371 and CIT 383.
Taught: Fall only
Advanced programming in a dynamically typed language, including techniques such as passing blocks, dynamic dispatch, and domain specific languages. The class will apply these techniques to IT applications, including interfacing to network services and parsing complex data formats like HTML and XML.

CIT 484 Network Security (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Grade of C- or better in CIT 480 and CIT 447.
Taught: Fall and spring
In-depth study of firewalls and intrusion detection/prevention systems; incident response; security protocols and VPNs; network server security; viruses and worms; wireless security; network security architecture and policy development.

CIT 494 Advanced Topics: Computer Information Technology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Various advanced topics in Computer Information Technology.

CIT 499 Advanced Independent Study (1-3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department

CIT 500 Information Technology Fundamentals (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of MSCIT director.
Taught: Variable, check with department
Introduction to programming in a scripting language, including applications to both system administration and web development.

CIT 501 Scripting (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Permission of MSCIT director.
Taught: Variable, check with department
This course covers information storage and management, storage system environment, disks, RAID, logical volume management, storage networking fundamentals, direct attached storage, storage area networks, network attached storage, content addressed storage, storage virtualization, data backup and recovery.

CIT 502 Procedural Programming (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CIT 500 or consent of MSCIT director.
Taught: Variable, check with department
Advanced topic of their choice in information security and write a research paper on that topic.

CIT 503 Database Administration (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CIT 500.
Prerequisite OR Co-requisite: CIT 501 or consent of MSCIT director.
Taught: Variable, check with department
Database administration concepts; procedural extensions to SQL; installing and configuring a database server; creating and configuring database instances; user management and security; backup and monitoring activities.

CIT 515 Computer Forensics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CIT 500 or consent of MSCIT director.
Taught: Variable, check with department
Incident response process; forensic duplication and analysis; reconstruction of computer activities; network-based evidence for intrusions; forensics tools.

CIT 520 System Administration (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CIT 500 or consent of MSCIT director.
Taught: Fall and spring
Network and transport protocols; switch and router configuration; network topologies, network design, and routing; VLANs; capacity planning and redundancy; routing protocols; wide-area networks; layer 2 and layer 3 troubleshooting; IPv4 and IPv6, network management and security.

CIT 521 Advanced Windows System Administration (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CIT 500.
Taught: Variable, check with department
Active directory configuration, network infrastructure configuration, application infrastructure configuration; specific topics include Active Directory and its security, Domain Name System, DHCP infrastructure, routing, remote access, advanced firewall and network access protection, IIS security, FTP, SMTP, Media Server.
CIT 580 Securing Computer Systems (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CIT 500 or consent of MSCIT director.
Taught: Fall and spring
An introduction to the concepts and technologies of computer security, with a focus on the practical aspects of securing computers, including common security threats and computer crime, authentication, cryptography, malware, operating systems security, and network security.

CIT 581 Cybersecurity Capstone (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CIT 580.
Taught: Variable, check with department
Advanced security topics including system hardening; cloud security; information assurance architectures; secure network design; and penetration testing. Students will research an advanced topic of their choice in information security and write a research paper on that topic.

CIT 583 Scripting II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CIT 580 and CIT 501 or consent of the MSCIT director.
Taught: Fall only
Advanced programming in a dynamically typed language, including techniques such as passing blocks, dynamic dispatch, and domain specific languages. The class will apply these techniques to IT applications, including interfacing to network services and parsing complex data formats like HTML and XML.

CIT 584 Network Security (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CIT 547 and CIT 580 or consent of MSCIT director.
Taught: Variable, check with department
In-depth study of firewalls and intrusion detection/prevention systems; incident response; security protocols and VPNs; network server security; viruses and worms; wireless security; network security architecture and policy development.

CIT 594 Intermediate Graduate Topics: Computer Information Technology (3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Various intermediate graduate topics in Computer Information Technology.

CIT 596 CIT Practicum (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of MSCIT director.
Taught: Variable, check with department
Students will work on information technology projects and make use of project management techniques that allow them to apply academic knowledge to real world situations. Course does not count as a regular elective in the MSCIT program.

CIT 599 Intermediate Independent Study (1-3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Regular admission to MSCIT program and consent of instructor.
Taught: Variable, check with department
Intermediate Independent Study.

Construction Management Courses (CMGT)

CMGT 101 Introduction to Construction Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
A general survey of the construction industry with its three major segments (Residential, Commercial, and Heavy/Civil.) This class provides an introduction to careers in the construction industry with an emphasis on the project phases, project participants and their interaction, and the importance of the construction industry to the US and global economies.

CMGT 120 Construction Materials and Methods I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisite OR Co-requisite: CMGT 101.
Taught: Fall and spring
Properties, characteristics, and methods of installation of major construction materials used in the skeleton and shell construction of modern buildings including concrete, asphalt, structural steel, and masonry (Bricks and blocks). Physical and operational properties of these materials are to be investigated including their behavior under loading and their stress/strain performance.

CMGT 121 Construction Materials and Methods II (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisite OR Co-requisite: CMGT 101 and CMGT 120.
Taught: Fall and spring
Properties, characteristics, methods and practices involved in the finishing of building construction including wood construction, roofing and cladding, thermal and moisture protection, glazing, interior partitions, doors and windows, flooring, and wall and ceiling covering. Applications of these materials to residential and commercial construction will be investigated.

CMGT 122 Architectural Design and Drafting (2 credits)
Hours: 1 classroom + 2 lab/studio
Prerequisites: CMGT 101.
Taught: Fall and spring
Techniques and procedures used in designing and drafting working drawings for residential structures.

CMGT 220 Plane Surveying (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: CMGT 101 and MAT 119.
Taught: Fall and spring
Procedures involved in the proper operation and care of traditional and modern surveying equipment and instruments. Students learn about accurate generation, interpretation, and presentation of surveying data through lab reports and layout plans.

CMGT 222 Architectural Drafting and CAD (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 121.
Taught: Fall and spring
Techniques and procedures used for manual and computerized drafting and detailing. Students are introduced to proper dimensioning, layering, and graphical presentations using architectural CAD including the production of 2 and 3 dimensional graphical representations of architectural and structural details.

CMGT 225 Construction Safety (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 121.
Taught: Fall and spring
Maintaining and operating a safe work environment on construction sites through the understanding and application of the OSHA standards as represented in the 29 CFR 1926. Students learn about hazard identification and mitigation through a properly designed safety program including recording and reporting of construction accidents.

CMGT 228 Soil and Foundation Interaction (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 121, MAT 119, GLY 120, and GLY 120L.
Taught: Fall and spring
Understanding the physical and operational properties of different soils including visual identification and inspection, and lab testing. Students learn about soil classifications and structural performance under different types of loads, the interaction between different soil types, and proper selection of the suitable type of foundation.
CMGT 300 Cooperative Education (0 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: CMGT 222 and CMGT 225.
Taught: Fall, spring, and summer
A cooperative education program provides students an opportunity to apply the knowledge and skills they are learning in the classroom to an employment position in business or industry. This type of work experience is valuable to students for many reasons. It allows students to (1) test and refine career plans and interests; (2) gain experience in their field of specialty before they begin searching for a permanent position; and (3) build a network of professional contacts from which they may draw technical and employment information. A co-op experience can also be financially rewarding. The cooperative education program referred to in this handbook includes all co-op positions in the Department of Construction Management. Please be sure to read this syllabus and address all concerns or questions to the Department of Construction Management.

CMGT 301 Cooperative Construction Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 222, CMGT 225, and department consent.
Taught: Fall, spring, and summer
Supervised, objective-based work experience related to the construction management major. This experience is to be coordinated by faculty, employer, coop coordinator, and student. Minimum of 20 hours on the job per week (300 hours per semester) are required of every student. Open to all students majoring in construction management. Applications are to be made to the Department of Construction Management.

CMGT 303 Construction Contracts, Documents, and Administration (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisite OR Co-requisite: CMGT 301.
Taught: Fall and spring
Review of the project life cycle during its phases of development including different project parties and their interaction. Students learn about project delivery methods and their applicability to a variety of project structuring and teaming agreements. Students are exposed to project scope coordination and verification through a thorough review of the project documents including drawings, specifications, and regulatory requirements including insurance and bonding, as well as bidding procedures and contract termination.

CMGT 305 Mechanical Systems for Construction (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 222.
Taught: Fall and spring
A review of the fundamental principles and materials of plumbing, heating, ventilating and air conditioning systems. Students will be exposed to the selection and sizing of different types of piping and HVAC equipment, including calculations of quantities from drawings and rules of thumb for sizing, capacities, and volumes.

CMGT 306 Electrical Systems for Construction (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 222.
Taught: Fall and spring
A review of the fundamental principles and materials for electrical work including, lighting, low voltage, and power supply for building construction. Students will be exposed to the selection and installation of electrical components including conduits, light fixtures, power, fire alarm, communications, and low voltage networks.

CMGT 320 Construction Estimating (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 303.
Prerequisite OR Co-requisite: CMGT 305 and CMGT 306.
Taught: Fall and spring
Interpretation of Construction drawings and specifications, quantity take-off, types of estimates and their uses, estimating direct and indirect job costs, impact of project delivery system on cost and price, and introduction to bidding strategies. Computer applications in construction estimating.

CMGT 322 Structural Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 228 and CMGT 301.
Taught: Fall only
Introduction to concepts used in statics, strength of materials and structural analysis as they relate to providing stability for structural components used for determinate temporary load support systems, bracing, shoring/restoring, and other determinate construction load circumstances. Topics include equilibrium, stability/instability, free body diagrams, the calculation of loads resulting in compressive and tensile forces on elements used to support temporary load conditions; assessment of the strength of components to resist such loads; analysis of components’ behavior under varying load conditions, basic design considerations of common temporary construction structures such as formwork, bracing of vertical elements, and retaining walls. Treatment of load path for statically determinate structures will also be introduced in this course.

CMGT 323 Land Planning and Development (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: CMGT 220, CMGT 222 and CMGT 303.
Taught: Spring only
Practices in land planning and subdivision development. Topics include subsurface utility system planning, environmental protection and controls, project financing and marketing.

CMGT 324 Construction Scheduling (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 320 and CMGT 329.
Taught: Spring only
Applications of time management in construction projects including project planning and scheduling techniques. Topics include development of bar charts, critical path method (CPM), resource allocation, probabilistic scheduling, schedule updating, cash flow baseline, time-cost tradeoff, linear project scheduling, and computer applications in schedule development and control.

CMGT 329 Construction Equipment (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 322.
Prerequisite OR Co-requisite: CMGT 303 and CMGT 322.
Taught: Variable, check with department
Investigation of issues related to the functions and use of construction equipment. Topics related to productivity calculation and improvement, sizing and cycle times, coordination and mixing and matching. Topics also include equipment costing issues and economic considerations on buying, leasing, and/or renting construction equipment. Applications to earthwork operations, concrete mixing and placement, lifting, and piling equipment. Application to civil design and earth structures.

CMGT 383 Advanced Technical Study (3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: CMGT 222.
Taught: Variable, check with department
Participation in an employer based technical study program, in a technical seminar, or in a company based practicum. Supervision arranged by the instructor and the agency sponsoring the program. Application must be made with instructor in semester preceding experience. Forty hours of work for each semester hour.

CMGT 399 Independent Study in Construction Management (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of department chair.
Taught: Variable, check with department
For advanced students seeking to study selected problems.
CMGT 400 Building Codes (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 303.
Taught: Fall only
Understanding the use and applications of the building codes for Residential Construction and Commercial Construction.

CMGT 415 Construction Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 324.
Taught: Fall and spring
Principles of Project management and administration applied to construction projects. Integrating the triple constraint (Time, Cost, and Quality) together with other project management functions (Scope, Risk, Communication, Procurement, Human Resources) in a comprehensive project management plan. Topics include computer applications in project administration.

CMGT 420 Construction Cost Control (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 324.
Taught: Fall and spring
A study of project costing elements and their relationship with other project characteristics (Time and Quantity). Applications of Value Engineering in Construction. Investigation of the effect of construction methods on project cost. Project cash flow projections and project financing. Major emphasis on project cost allocation, reporting, tracking, and control for labor, material, equipment, subcontractors, as well as job and general overheads.

CMGT 422 Advanced Project Controls (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 320, CMGT 324 and CMGT 329.
Co-requisites: CMGT 415 and CMGT 420.
Taught: Fall only
This course provides computer applications in estimate and schedule development and control, together with integrated change management as related to the project triple constraint; time, cost, and scope. The course is delivered through a project-based approach focusing on building the electronic schedule and estimate, base-lining, updating, revising, and modifying the schedule, as well as the integration of other project documents (Drawings, contracts, change orders, correspondence, etc.) through an electronic documentation system.

CMGT 424 Construction Renovation and Restoration (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: CMGT 324.
Taught: Fall only
Procedures and techniques for renovating and restoring existing structures. Guidelines for historical preservation, preparation, implementation and utilization of project documents for the renovation of historic projects.

CMGT 426 Heavy Construction Techniques and Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 220, CMGT 222, and CMGT 303.
Taught: Variable, check with department
Latest Concepts, procedures, and techniques used in analyzing the processes of heavy construction.

CMGT 427 Construction Law and Legal Contracts (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 303.
Taught: Fall and spring
Contract law principles, mechanics liens, tort law, labor and employment law, insurance and suretyship, arbitration, and contract license law.

CMGT 429 Civil Design (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: CMGT 329.
Taught: Fall and spring
Concepts, techniques and procedures involved in managing heavy construction and civil work projects. Emphasis on Highway construction estimating, linear project scheduling, underground utilities layout, retention and detention structures, and traffic control and management.

CMGT 430 Design Build (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 320 and CMGT 328.
Taught: Spring only
Major commercial/industrial contractors and their customers want building on a fast tract. The design of the building is taking place as the building as the building is being built. Construction design techniques and procedures of fast track building.

CMGT 431 Capstone Project Residential and Commercial Construction (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: CMGT 324.
Prerequisite OR Co-requisite: CMGT 420.
Taught: Spring only
Developing a comprehensive project management response to a Request for Proposals related to developing a residential development or a commercial construction project. Production of project documents including estimates, schedules, and other documents including quality, safety, risk, site utilization, constructability, and sustainability plans.

CMGT 494 Seminar: Construction Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMGT 222.
Taught: Variable, check with department
Readings and discussion of critical questions. Topics vary according to interests and needs of students. May be repeated two times (6 sem. hrs.).

Communication Studies Courses (CMST)

CMST 101 Public Speaking - UC (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Development of understanding of the oral communication process; aid in improving oral communication skills; idea and message development; effective delivery of ideas; Offered every semester. A prerequisite to all other CMST courses.
General education credit: Oral Communication

CMST 101H Honors Principles of Speech Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Development of understanding of the oral communication process; aid in improving oral communication skills; idea and message development; effective delivery of ideas; Offered every semester.
General education credit: Oral Communication

CMST 110 Introduction to Communication Studies - UC (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Introduction to various theoretical perspectives for understanding human communication. CMST110 has been designed to introduce students to the study of human communication from a wide range of viewpoints. The course introduces foundational principles of communication theory: general principles and the elements of speech communication, perception, language and verbal symbols, nonverbal activities, and listening. Next, the course applies these principles to the various levels of communicating, i.e. interpersonal, small group, organizational, and intercultural. The course also covers communication and persuasion in public forums such as public speaking and mediated contexts.
General education credit: Oral Communication
CMST 220 Interpersonal Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Fall and spring
Theories and skills of dyadic interaction in professional and personal contexts; perception, self-concept, nonverbal communication, listening, assertiveness, relationships, conflict management and problem solving.

CMST 230 Small Group Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Fall and spring
Theories and activities that increase understanding of skills of communication in groups; decision-making, problem-solving, leadership, listening, cohesiveness, climate-setting, conflict management, groupthink, and systems theory.

CMST 300 Research Methods in Communication Studies (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Fall and spring
Course provides an overview of the concepts, methods, and tools by which research in Communication Studies is designed, conducted, interpreted, and critically evaluated. The course will specifically examine quantitative and qualitative research procedures, research question and hypothesis generation and testing, measurement, sampling, research design, and data analysis techniques.

CMST 303 Organizational Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Fall and spring
Organizational communication theories, models, and processes with practical application of these principles in organizational communication speaking exercises; management and leadership communication skills.

CMST 310 Argumentation (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Fall and spring
Theories of argument; practical applications of argument, in numerous contexts, including academic policy debate.

CMST 317 Gender and Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Variable, check with department
This course will focus on principles, concepts and characteristics defining gendered communication. It is designed to enhance your knowledge and understanding of the elements key to successful communication across genders, whether they are business, personal, social, familial or intimate. Also, the role of socialization in gendered development will be explored.

CMST 320 Advanced Interpersonal Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 220.
Taught: Variable, check with department
Theories, research, and issues relevant to human interaction and interpersonal relationships.

CMST 330 Political Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Variable, check with department
Communication strategies and tactics employed by candidates seeking public office; political audiences, campaign phases, political debates, political language, advertising campaigns, media coverage, and campaign speeches.

CMST 333 Lifespan Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Variable, check with department
This course overviews issues related to communication and aging across the lifespan. Topics include attitudes about aging, intergenerational and intragenerational communication, enhancing communication with older adults, social construction of the aging process, older adults’ media use, effects of mass media on older adults, health communication and the older adult population, as well as issues related to communication and technology among older adults.

CMST 335 Communication and Conflict (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Spring only
Theories and strategies of communication will be examined to help explain how people behave in conflict and suggest means of improving communication in order to facilitate a more collaborative process and the production of win-win outcomes.

CMST 340 Strategies of Persuasion (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Fall and spring
Persuasion theory practice, and ethics in preparing and presenting persuasive messages and campaigns.

CMST 345 Family Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Fall only
Course explores the communication processes associated with families. Students will examine theories of communication and family life cycles, different family forms, understudied families, power and conflict in families, and communication and stress in families.

CMST 355 Culture and Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Fall and spring
Theory, criticism, and practice of culture and communication, individual experience in communicating interculturally, and strategies in cross-cultural communication situations.

CMST 360 Interviewing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Fall and spring
Theory and principles related to a variety of interviewing settings; employment, information, and advising; role of interviewer and interviewee; use of role playing; outside class exercises such as real interviews and written reports.

CMST 370 Advanced Public Speaking (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Fall and spring
Organization, style and delivery of speeches for social occasions, non-classroom settings, and complex setting; speech writing.

CMST 381 Computer-Mediated Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Variable, check with department
This seminar examines communication occurring between two or more individual people who interact and/or influence each other via the internet or network connection using social software. Topics include identity, social information processing, online romance, social network sites, Internet communities, web blogs, wikis, and workplace considerations.

CMST 394 Topics in Communication Studies (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Focused study of a specific and significant topic from a communication orientation. Topics vary from semester to semester. May be repeated once for credit.
CMST 396 Internship: Communication (3 credits)
Hours: 0 classroom + 12 lab/studio
Prerequisites: Written consent of supervising faculty member; junior or senior standing; and a GPA of at least 2.75.
Taught: Fall, spring, and summer
Selected placement of qualified students in off-campus communication studies related professions; experience in corporate training, speech writing, interviewing, sales, and groups, communication.

CMST 403 Health Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Variable, check with department
This course is designed to provide students with knowledge related to the field of health communication. Specifically, the course overviews major theories used in health communication research and intervention planning, as well as contemporary issues including patient-provider communication, cultural beliefs and health, influence of mass media on health beliefs and behaviors, and the impact of interpersonal relationships on health. Students also learn about the evolution of the U.S. healthcare system, and the role of communication in improving healthcare in the country. Social inequities in health and access to healthcare are also addressed in the course. Throughout the semester, students work in small groups to develop an intervention designed to address a health issue in the community.

CMST 410 Rhetorical Theory and Criticism (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Variable, check with department
This course is designed to provide students with knowledge related to the field of rhetorical study. The role of rhetoric to modern practice of rhetorical criticism.

CMST 430 Communication Theories (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110.
Taught: Fall and spring
Theories of interpersonal, group, public, and mass communication; historical developments, paradigms, and research that shape communication theory construction.

CMST 440 Communication Training and Development (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CMST 101 or CMST 110 and junior standing.
Taught: Variable, check with department
Instruction in design and delivery of communication training programs for specific business contexts; adult learning principles, proposal development, needs assessments, presentation skills, audio/visual aids, and evaluation procedures.

CMST 495 Study Abroad (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Varies by topic.
Taught: Variable, check with department
Varies by topic. Course includes a classroom portion and a trip abroad.

CMST 499 Independent Study (1-3 credits)
Hours: 0 classroom + 4-12 lab/studio
Prerequisites: Junior or senior majoring or minor in Communication Studies; a GPA of at least 2.50 or consent of instructor; approved independent study proposal.
Taught: Variable, check with department
Individually supervised work involving research, study, and/or practice examining and enacting advanced communication processes. Class may explore relational theories, concepts, and evaluation procedures. Communication in developing, sustaining, and terminating social and personal relationships. Class may explore relational theories, concepts, and self-application.

COM 500 Communication Proseminar (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to the Communication Graduate Program.
Taught: Variable, check with department
Designed to introduce students to the communication discipline and graduate studies at NKU. Students explore graduate-level analysis, writing, and thought. Inquiry and discussion pivot around key departmental areas of scholarly emphasis, emerging fields of Informatics, NKU faculty research programs.

COM 520 Relational Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-odd yrs
Relationship-centered understandings of interpersonal communication. The role of communication courses.

COM 550 Digital Media (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Technical and aesthetic processes in the production of media, including new media and integrated media.

COM 560 Rhetorical Criticism (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-odd yrs
Advanced seminar in the history, theory, methods and practice of rhetorical criticism.

COM 571 Critical Ethnography (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Hands-on research seminar examining and practicing ethnographic research methods used to empower communities. Students travel to another culture to enact ethnographic research designs. Digital ethnography, service learning, field study, educational, and interactive research explorations.

COM 575 Intercultural Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Students must have a 3.0+ GPA to enroll in the course.
Taught: Variable, check with department
The examination of advanced cross-cultural, intercultural, multicultural, and international communication in relation to communication perceptions and practices.

COM 580 Sexuality and Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Students must have a 3.0+ GPA to enroll in the course.
Taught: Variable, check with department
Exploration of topics, concepts, and theories related to communication and human sexuality. Relationships, sexual literacy, sexual identities, sexual practices, sex representations, and social control of sexuality.

COM 594 Intermediate Topics in Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Special topics course with readings and writings at the intermediate level. Course varies by instructor and section. Students must have a 3.0 or higher GPA to enroll in this course.
Counseling Courses (COU)

COU 545 Children and Families in Health Care (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior or graduate standing.
Taught: Variable, check with department
This course introduces the theory and practice of Child Life, demonstrating how child life specialists provide emotional care and meet the developmental needs of pediatric patients and their families.

COU 575 Mindfulness and Contemplative Practices (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior or graduate standing.
Taught: Variable, check with department
This course invites students to explore mindfulness and contemplative practices. Research indicates these practices can benefit individuals in the helping professions by strengthening concentration and insight as well as enhancing empathy and compassion. These practices have the potential to prevent burnout and foster resilience for professionals whose daily work involves emotional engagement and caring.

COU 580 Research Tools in Counseling (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Research, technology, and communication competencies required for graduate-level coursework in counselor education: use of library resources for researching the counseling literature; written communication using APA style; basic data analysis and interpretation; computer competencies expected for incoming counseling students.

COU 594 Special Topics in Counseling (1-6 credits)
Hours: 1-6 classroom + 0 lab/studio
Prerequisites: Junior or graduate standing.
Taught: Variable, check with department
In-depth study of contemporary topics in counseling. Topic listed in Schedule of Classes; may be repeated for credit when topics differ.

Computer Science Courses (CSC)

CSC 260L Object-Oriented Programming Laboratory (1 credit)
Hours: 0 classroom + 2 lab/studio
Co-requisites: CSC 260.
Taught: Fall and spring
Laboratory to accompany CSC 260 in which students gain hands-on experience in programming and using programming tools such as debuggers.

CSC 260 Object-Oriented Programming I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in INF 110 or INF 120 or placement.
Taught: Fall and spring
Elementary object-oriented programming concepts and practice: types, decisions, loops, methods, arrays, classes; design and problem-solving. An intensive introduction intended for students with programming experience.

CSC 260L Object-Oriented Programming Laboratory (1 credit)
Hours: 0 classroom + 2 lab/studio
Co-requisites: CSC 260.
Taught: Fall and spring
Laboratory to accompany CSC 260 in which students gain hands-on experience in programming and using programming tools such as debuggers.

CSC 270 Mathematics Software Programming (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 128 or 129.
Taught: Fall and spring
Programming and problem solving with a high-level mathematical software package; variables, control, modularity, processing of lists and vectors; recursion; visualization of functions; basic numerical and symbolic computation; simulation.

CSC 292 Research Experience in CSC (0 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Varies.
Taught: Variable, check with department
Introduction to research in computer science by participation in a special project or research directed by an appropriate faculty member. Course intended for computer science majors interested in CS research but not ready or able to enroll in more advanced research courses. Pass/fail grade only. Course may be repeated twice.

CSC 299 Directed Readings/Independent Study (1-3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Various topics in computer science.

CSC 301 Web Programming (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in INF 282 and INF 286 and either CSC 260 or CIT 383.
Taught: Spring only
Design of interactive web applications and web sites containing dynamic content; software design for web-based client-server applications and database interaction; client-side and server-side techniques; language-specific design issues.

CSC 325 Introduction to Neural Networks and A.I. (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 260 or BIO 370 or PSY 311, or consent of instructor.
Taught: Variable, check with department
Survey of concepts in artificial neural networks for associative memory and learning; software simulations applied to sample problems; logic-based artificial intelligence; approximate reasoning; search concepts and problems; the limits of machine intelligence. Not open to students who have passed CSC 425.

CSC 360 Object-Oriented Programming II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 260 and B- or better in MAT 119 or C- or better in MAT 128 or C- or better in MAT 129.
Taught: Fall and spring
Intermediate object-oriented programming concepts and practice: inheritance, basic graphical user interface elements; introduction to recursion; implementation of linked lists; use of basic container types.

CSC 362 Computer Systems (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 360.
Taught: Fall and spring
ANSI C, pointers, pointer arithmetic; dynamic memory allocation; introduction to instruction sets, registers, addressing modes and assembly language; binary representations and bit manipulations; computer organization concepts.

CSC 364 Data Structures and Algorithms (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 360.
Taught: Fall and spring
Analysis and efficient implementation of container types such as stacks, queues, hash tables, search trees, and graphs; sorting algorithms.

CSC 394 Intermediate Topics: Computer Science (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Various topics in computer science.

CSC 396 Computer Science Practicum (1-3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: CSC major, junior standing and consent of department.
Taught: Variable, check with department
Students work on real-world software engineering projects whether through a work environment or with guidance of a computer science faculty member. Up to 3 hours can count toward the computer science major.
CSC 399 Intermediate Directed Readings and Independent Study: Computer Science (1-3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: consent of instructor.
Taught: Variable, check with department

CSC 402 Advanced Programming Methods (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 362 and 364.
Taught: Fall and Spring
High-performance OO and generic programming in C++; concurrent and distributed programming; STL; multi-paradigm design patterns; extensive practice with sophisticated programming projects.

CSC 407 Concepts of Programming Languages (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 362.
Taught: Variable, check with department
History of high-level languages; grammars and the compilation process; axiomatic semantics; language design and implementation issues; procedural, object-oriented, functional, and logic programming paradigms; case studies in important contemporary languages.

CSC 415 Android Mobile App Development (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 362 or CSC 364.
Taught: Variable, check with department
Introduces, explores and reinforces the Android app development language, environment and software development kit; examination of mobile applications and data sources; leveraging GUIs; examination of Android onboard sensors and hardware.

CSC 416 iOS Mobile App Development (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 362 or CSC 364.
Taught: Variable, check with department
Introduces, explores and reinforces the iOS app development language for iPhones, environment and software development kit; examination of mobile applications and data sources; leveraging GUIs; examination of iPhone onboard sensors and hardware.

CSC 425 Artificial Intelligence (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 364.
Taught: Variable, check with department
Concepts and techniques of artificial intelligence; heuristic search, expert systems, AI languages, natural language processing, and elementary neural networks.

CSC 433 Computer Networks (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 362 and INF 284.
Taught: Variable, check with department

CSC 439 Software Testing and Maintenance (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 364 and senior standing.
Taught: Fall and Spring
Techniques in computer software implementation, testing, configuration management and maintenance. Testing and maintenance of a large-scale software project by students working in teams.

CSC 440 Software Engineering (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 402, CSC 439 and senior standing.
Taught: Fall and Spring
Techniques in computer software specification, design, implementation, testing, documentation, and maintenance; development of a large-scale software project by students working in teams.

CSC 450 Database Management Systems (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 360 and INF 282.
Taught: Variable, check with department
Design and implementation of relational database applications; implementation of various parts of a relational database management system; Structured Query Language, entity-relationship model, normal forms, concurrency control, crash recovery, indexing, evaluation of relational operators, relational query optimization.

CSC 456 Advanced Web Application Development (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 301 and CSC 360.
Taught: Variable, check with department
Advanced technologies for developing web applications for business and industry. Focus on the design and development of scalable, robust, and extensible web applications; different frameworks for developing web applications and the software build process. Web component design and programming, data access, product packaging, and application deployment.

CSC 460 Operating Systems (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 362 and CSC 364.
Taught: Spring only
Internal structures and algorithms for file systems, I/O, memory management and process scheduling; examples drawn from contemporary operating systems such as UNIX and Windows NT.

CSC 462 Computer Architecture (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 362.
Taught: Variable, check with department
Implementation of control unit and arithmetic-logic unit, microprocessor organization and design, main memory and cache organizations, I/O subsystem; RISC vs. CISC instruction sets, pipelining, parallel processing; mechanisms for evaluating computer architectures and microprocessor performance.

CSC 464 Design and Analysis of Algorithms (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 364 and MAT 385.
Taught: Variable, check with department
Proofs of time and space bounds on important algorithms; advanced algorithms on graphs, sequences and sets; divide-and-conquer and dynamic programming; randomized algorithms; parallel algorithms.

CSC 480 Computer Graphics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 364 and MAT 234.
Taught: Variable, check with department
Real-time graphics programming using a contemporary 3D API; affine and projective transformations; illumination and shading algorithms; representation and rendering of meshes; 3D picking; clipping and frame-buffer techniques; object-oriented scene graphics.

CSC 482 Computer Security (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CSC 362.
Taught: Variable, check with department
Theory and algorithms of computer security, including security policies, access control, secure programming, identity and authentication, information flow, and information assurance techniques.

CSC 483 Cryptology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 234 or CSC 362 or CSC 364.
Taught: Variable, check with department
Cryptology of classical ciphers, mathematical foundations of cryptology, Hill cipher, DES and AES, cryptography of public key cryptosystems.

CSC 485 Theory of Computation (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 385.
Taught: Fall only
Regular and context-free grammars; Turing machines; recursive and recursively enumerable
languages; uncomputability; the Chomsky hierarchy; complexity classes such as P, NP, and NP-complete.

**CSC 493 Research Seminar in Computer Science (1-3 credits)**  
Hours: 1-3 classroom + 0 lab/studio  
Prerequisites: C- or better in MAT 385 and CSC 364, and consent of instructor.  
Taught: Variable, check with department  
Examination and presentation of contemporary research work in computer science.

**CSC 494 Advanced Topics: Computer Science (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Varies with topic (see Schedule of Classes).  
Taught: Variable, check with department  
Various advanced topics in computer science.

**CSC 499 Advanced Directed Readings/Independent Study (1-3 credits)**  
Hours: 0 classroom + 0 lab/studio  
Prerequisites: Consent of instructor.  
Taught: Variable, check with department

**CSC 501 Intermediate Programming Workshop (1-3 credits)**  
Hours: 1-3 classroom + 0 lab/studio  
Prerequisites: graduate standing; background in computer programming and data structures.  
Taught: Variable, check with department  
Intensive review of programming and data structures from an object-oriented perspective using the C++ language. Intended for students whose computer programming skills need refreshing or updating.

**CSC 502 Advanced Programming Methods (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Regular admission to MSCS program or admission to Secure Software Engineering certificate program.  
Taught: Variable, check with department  
High-performance OO and generic programming in C++; concurrent and distributed programming; STL: multi-paradigm design patterns; extensive practice with sophisticated programming projects.

**CSC 507 Concepts of Programming Languages (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Regular admission to MSCS program.  
Taught: Variable, check with department  
History of high-level languages; grammars and the compilation process; axiomatic semantics; language design and implementation issues; procedural, object-oriented, functional, and logic programming paradigms; case studies in important contemporary languages.

**CSC 515 Android Mobile App Development (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Regular admission to the MSCS program.  
Taught: Spring only  
Introduces, explores and reinforces the Android app development language, environment and software development kit; examination of mobile applications and data sources; leveraging GUIs; examination of Android onboard sensors and hardware.

**CSC 516 iOS Mobile App Development (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Regular admission to the MSCS program.  
Taught: Spring only  
Introduces, explores and reinforces the iOS app development language for iPhones, environment and software development kit; examination of mobile applications and data sources; leveraging GUIs; examination of iPhone onboard sensors and hardware.

**CSC 525 Artificial Intelligence (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Regular admission to MSCS program.  
Taught: Variable, check with department  
Concepts and techniques of artificial intelligence; heuristic search, expert systems, AI languages, natural language processing, and elementary neural networks.

**CSC 533 Computer Networks (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Regular admission to MSCS program.  
Taught: Variable, check with department  
Networks and communication media, media access control, main memory and cache memory, microprocessor organization and instruction sets, pipelining, parallel processing, recovery, security, relational model, Structured Query Language, hierarchical and network models.

**CSC 539 Software Testing and Maintenance (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Regular admission to MSCS program or consent of MSCIT director.  
Taught: Variable, check with department  
Techniques in software testing and maintenance; examples drawn from contemporary operating systems such as Unix and Windows.

**CSC 550 Database Management Systems (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Regular admission to MSCS program.  
Taught: Variable, check with department  
Database design, normal forms, concurrent processing, recovery, security, relational model, Structured Query Language, hierarchical and network models.

**CSC 556 Advanced Web Application Development (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Regular admission to MSCS program.  
Taught: Variable, check with department  
Advanced technologies for developing web applications for business and industry. Focus on the design and development of scalable, robust, and extensible web applications; different frameworks for developing web applications and the software build process. Web component design and programming, data access, product packaging, and application deployment.

**CSC 559 Software Testing and Maintenance (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Regular admission to MSCS program.  
Taught: Variable, check with department  
Techniques in software testing and maintenance; examples drawn from contemporary operating systems such as Unix and Windows.

**CSC 560 Operating Systems (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Regular admission to MSCS program.  
Taught: Spring only  
Internal structures and algorithms for file systems, I/O memory management and process scheduling; examples drawn from contemporary operating systems such as Unix and Windows.

**CSC 562 Computer Architecture (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Regular admission to MSCS program.  
Taught: Variable, check with department  
Implementation of control unit and arithmetic-logic unit, microprocessor organization and design, main memory and cache organizations, I/O subsystem; RISC vs. CISC instruction sets, pipelining, parallel processing; mechanisms for evaluating computer architectures and microprocessor performance.

**CSC 564 Design and Analysis of Algorithms (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Regular admission to MSCS program.  
Taught: Variable, check with department  
Proofs of time and space bounds on important algorithms; advanced algorithms on graphs, sequences and sets; divide-and-conquer and dynamic programming; randomized algorithms; parallel algorithms.
CSC 580 Computer Graphics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Regular admission to MSCS program and MAT 234 or equivalent.
Taught: Variable, check with department
Real-time graphics programming using a contemporary 3D API; affine and projective transformations; illumination and shading algorithms; representation and rendering of meshes; 3D picking; clipping and frame-buffer techniques; object-oriented scene graphs.

CSC 582 Computer Security (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Regular admission to the MSCS program or admission to the Secure Software Engineering certificate program.
Taught: Variable, check with department
Theory and algorithms of computer security, including security policies, access control, secure programming, identity and authentication, information flow, and information assurance techniques.

CSC 584 Cryptography (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Cryptography of classical ciphers, DES and AES, public key cryptosystems, authentication and cryptographic hash functions.

CSC 585 Theory of Computation (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Regular admission to MSCS program.
Taught: Fall only
Regular and context-free grammars; Turing machines; recursive and recursively enumerable languages; uncomputability; the Chomsky hierarchy; complexity classes such as P, NP, and NP-complete.

CSC 584 Topics: Computer Science (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Regular admission to MSCS program and consent of instructor.
Taught: Variable, check with department
Various advanced topics.

CSC 589 Intermediate Independent Study (1-3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Regular admission to MSCS Program, consent of instructor.
Taught: Variable, check with department
Intermediate Independent Study.

Career and Technical Education Courses (CTE)

CTE 180 Foundations: Career/Technical Education (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Principles, objectives, historical perspective, purposes, and roles of career and technical education as related to technological, societal, and educational influences.

CTE 181 Instructional Systems Development (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
Design and development of instructional systems; performance objectives, appropriate content, instructional media, teaching learning strategies, and curricula analysis in specialized industrial education programs at all educational levels.

CTE 195 Vocational Pre-Certification Experience (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Verification of eligibility by Kentucky Department of Education.
Taught: Summer only
Completion of Kentucky Teacher Internship and Kentucky Department of Education Management by Instruction workshop. Graded pass/fail.

CTE 280 Instructional Methods: Career and Technical Education (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CTE 181.
Taught: Fall only
Methods and strategies for the implementation or presentation of instructional systems in specialized career and technical education programs at all educational levels.

CTE 281 Evaluation in Career/Technical Education (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CTE 181.
Taught: Spring only
Principles and procedures in evaluating student and teacher behavior including preparation of measuring devices, methods of assessing technical competency, interpretation of standardized tests and introduction to statistical analysis of test data.

CTE 285 Competency Testing Examination (3-6 credits)
Hours: 3-6 classroom + 0 lab/studio
Taught: Variable, check with department
National Occupational competency Testing Institute Examination in a specific career/technical area. Students must register for examination with an approved NOCTI Testing Center.

Dance Courses (DAN)

DAN 120 Ballet I (3 credits)
Hours: 0 classroom + 2-4 lab/studio
Taught: Fall, spring, and summer
Introduction to technique for students with little or no dance training.
DAN 220 Ballet II (3 credits)
Hours: 0 classroom + 2-4 lab/studio
Prerequisites: Consent of instructor or chair.
Taught: Fall and spring
Intermediate level.

DAN 221 Modern Dance I (3 credits)
Hours: 0 classroom + 2-4 lab/studio
Taught: Fall and spring
Beginning level.

DAN 222 Jazz Dance I (3 credits)
Hours: 0 classroom + 2-4 lab/studio
Prerequisites: DAN 120.
Taught: Fall and spring
Introduction to jazz dance technique. For students with little or no jazz dance training.

DAN 224 Tap I (3 credits)
Hours: 0 classroom + 2 lab/studio
Taught: Fall only
Introduction to tap dance technique. No previous training necessary.

DAN 226 Foundation Seminar (2 credits)
Hours: 0-2 classroom + 0 lab/studio
Prerequisites: 2 DAN classes and consent of instructor or chair.
Taught: Variable, check with department
Execute corrective exercise by strengthening muscle tissue and skeletal connections, learning technical skills essential for all areas of dance; analyze movement strategies for proper body alignment. May be repeated for a maximum of 4 hours.

DAN 227 Special Topics in Dance (0-6 credits)
Hours: 0-2 classroom + 2-4 lab/studio
Taught: Variable, check with department
Opportunity for introductory work in specialized topics related to student’s areas of concentration. Can be repeated for credit up to 6 hours.

DAN 228 Ballet II (3 credits)
Hours: 0 classroom + 2-4 lab/studio
Prerequisites: DAN 221 or consent of instructor or chair.
Taught: Spring only
Opportunity for introductory work in specialized topics related to student’s areas of concentration. The studio technique allows the student to choose from dance student’s area of concentration. The studio technique allows the student to choose from major contributing forces, key figures, and styles that helped form contemporary dance today.

DAN 229 Dance History (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: 6 semester hours of dance.
Taught: Variable, check with department
Major contributing forces, key figures, and styles that helped form contemporary dance today.

DAN 232 Physiology of Dance (3 credits)
Hours: 2 classroom + 1 lab/studio
Taught: Variable, check with department
Provides an explanation of dance kinesiology for the dancer. Emphasis is placed on the actions of the muscles, implications of joint mechanics for technique, dance terminology, specific exercises and discussion of dance injury.

DAN 324 Tap Dance II (3 credits)
Hours: 0 classroom + 2-4 lab/studio
Prerequisites: DAN 224 or consent of instructor or chair.
Taught: Spring only
Dance work in tap dance: audition and performance preparation; techniques in choreography.

DAN 326 Advanced Dance Seminar I (2-6 credits)
Hours: 0-2 classroom + 2-6 lab/studio
Prerequisites: Consent of instructor or chair.
Taught: Variable, check with department
Advanced work in dance (all genres may be explored) for students majoring in theatre and skilled dancers.

DAN 327 Intermediate Tap II (2 credits)
Hours: 0 classroom + 2 lab/studio
Prerequisites: DAN 228 or consent of instructor or chair.
Taught: Variable, check with department
Advanced work in dance (all genres may be explored) for students majoring in theatre and skilled dancers.

DAN 328 Special Problems in Dance (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: Consent of instructor or chair.
Taught: Variable, check with department
Opportunity for additional work in dance student’s area of concentration. The studio technique allows the student to choose from among electives in specific areas of interest.

Data Science Courses (DSC)

DSC 101 Introduction to Data Science (1 credit)
Hours: 1 classroom + 0 lab/studio
Prerequisites: Data science major.
Taught: Fall only
Describes the field of data science and data science careers. Oriented students to data science in the College of Informatics, including experience with commonly used tools and labs.

DSC 194 Data Science: Introductory Topic (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Varies by topic.
Taught: Variable, check with department
Introductory topic in data science. Topic will vary by offering.

DSC 199 Data Science: Introductory Ind. Study (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Varies by topic.
Taught: Variable, check with department
Introductory independent study in data science. Topic will vary by offering.

DSC 292 Research Experience in DSC (0 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Varies.
Taught: Variable, check with department
Introduction to research in data science by participation in a special project or research directed by an appropriate faculty member. Course intended for data science majors interested in data science research but not ready or able to enroll in more advanced research courses. Pass/fail grade only. Course may be repeated twice.

DSC 311 Data Analytics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CSC 360 and STA 250.
Taught: Spring only
Study of the data analysis process; exploratory data analysis and visualization; selection of data modeling techniques; identification of important attributes; and presentation of data analysis results.

DSC 321 Data Visualization (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: DSC 311.
Taught: Fall only
Design principles and techniques for visualizing data; visualization techniques for spatial and geospatial data; visualization techniques for multivariate data; networks visualization; interaction concepts and techniques; designing effective visualizations.

DSC 396 Data Science Practicum (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Data science major, junior standing and consent of department.
Taught: Variable, check with department
Students work with big data and analytical tools to apply concepts to solve real-world problems whether through a work environment or with the guidance of a data science faculty member. Up to 3 hours can count toward the data science major.
DSC 411 Data Mining (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CSC 364 and STA 250.
Taught: Spring only
Discovering patterns in datasets; data mining concepts and methodologies including classification, clustering, associations, and anomaly detection; selecting appropriate data mining algorithms; experimenting with data mining tools, such as SPSS, R, Weka, or Oracle Data Miner.

DSC 421 Big Data (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: DSC 411 and CSC 450.
Taught: Fall only
Manipulation, storage, and analysis of large scale data; large-scale distributed file systems like HDFS (Hadoop Distributed File System); large scale databases including SQL and NoSQL; MapReduce algorithm design.

DSC 431 Network Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: STA 250 and CSC 364.
Taught: Fall only
Network analysis fundamentals; technological and information networks; social networks; network representations; network visualization; network centrality measures; network structure; random networks; models of network formation.

DSC 496 Data Science Capstone (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIS 330, DSC 321 and DSC 411.
Taught: Spring only
Student teams design, implement, and present a data science project for a client. Projects will include cleaning, processing, and analysis of data, along with oral and written presentations with appropriate data visualizations.

Economics Courses (ECO)

ECO 200 Principles of Macroeconomics - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing and completion of one college-level mathematics course.
Taught: Fall, spring, and summer
Introductory macroeconomics; national income and employment; economic growth, business cycles and inflation; economic role of government; role of money and banking system; international trade.
General education credit: Individual and Society

ECO 201 Principles of Microeconomics - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing and completion of one college-level mathematics course.
Taught: Fall, spring, and summer
Individual market behavior in capitalistic economy; role of supply and demand in determination of value and resource allocation; monopoly and its regulation; problems of economic growth; population growth, and environment.
General education credit: Individual and Society

ECO 205 Economics for Teachers (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Examines essential concepts of macroeconomics and microeconomics with an emphasis on concepts appropriate for elementary, middle, and high schools. Not applicable to a major or minor in business. Will not substitute for ECO 200 and/or ECO 201.

ECO 300 Intermediate Macroeconomics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ECO 200 and ECO 201, and STA 205 or STA 212.
Taught: Fall only
Theory of economic aggregates; advanced analysis of national income determination and employment; development of policy on inflation, unemployment, and economic growth; the internet and data sources available on the World Wide Web.

ECO 301 Intermediate Microeconomics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ECO 200 and ECO 201, STA 205 or STA 212.
Taught: Spring only
Theory of optimal price; output and employment decisions of firms under varying market structures; individual and market demand; general equilibrium; case studies of major topics.

ECO 302 Money and Banking (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ECO 200 and ECO 201, STA 205 or STA 212.
Taught: Variable, check with department
History and evolution of the American banking system; interest rates, financial instruments, and financial markets; financial institutions; central banks, monetary policy and financial stability; modern monetary economics.

ECO 305 International Context for Business (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Certified as a business major or declared major in economics.
Taught: Fall and spring
Domestic and global economic environments of organizations; interactions and interrelationships between the cultural, ethical, social, political, technological, and ecological factors constituting the international context for business.

ECO 307 Moneyball: The Economics of Sports (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in ECO 201.
Taught: Fall and summer
Challenges students to apply economic theory to the unique aspects of college and professional sports. Highlights of the course include the industrial structure of sports, public financing of sports, and labor markets in sports.

ECO 310 Introduction to Econometrics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ECO 200 and ECO 201, and STA 205 or STA 212.
Taught: Fall only
Introduction to economic measurement; review of statistics, theoretical models, analysis of economic data, forecasting and other technical considerations; gathering, analyzing, and presenting economic information.

ECO 311 Econometrics II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ECO 310.
Taught: Spring only
Second course in econometrics sequence. The course covers how to statistically address problems resulting from relaxation of assumptions underlying OLS regression; simultaneous equation models; time series models and forecasting based in EXCEL.

ECO 330 Urban and Regional Economics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ECO 200 and ECO 201.
Taught: Variable, check with department
Application of economic analysis to explain spatial patterns of economic activity within subdivisions of the larger economic system.

ECO 340 International Economics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ECO 200 and ECO 201.
Taught: Variable, check with department
Theory of international trade and finance; commercial and financial policies; foreign exchange; international monetary institutions; policies of free and controlled trade; world economic planning.
ECO 342 Labor Economics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ECO 200 and ECO 201.
Taught: Variable, check with department
Analysis of the functioning of labor markets with theoretical, empirical, and policy applications in determination of employment and wages in the U.S. economy.

ECO 340 Economic Development (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ECO 200 and ECO 201.
Taught: Variable, check with department
Covers the nature and needs of students with exceptionalities, overview of educational programming and legal issues in special education.

ECO 399 Independent Study: Economics (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: ECO 200 and ECO 201.
Taught: Variable, check with department
Directed readings, independent research, or student projects on areas of individual academic interest; topics, meeting times, and outcomes arranged with instructor.

ECO 580 Economics for Teachers (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
A conceptual framework for the study of economics and overview relating to the basic economic problem, economic systems, resource allocation, economic growth and stability, economic institutions, and goals. Foundation course intended for classroom teachers with little or no background in economics. Open only to students majoring in education. Repeatable for credit when topics vary.

ECO 594 Topics: Teaching Economics (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Summer only
Strategies and activities for teaching economics and selected economic topics at the elementary and secondary levels; instructional resources and their effective use in the classroom; sample curriculum guides; curriculum development activities. Repeatable for credit when topics vary. Open only to students majoring in education.

Education – Special Education Courses (EDS)

EDS 322 Instructional Planning for Inclusive Elementary Classrooms (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: EDS 360 or PHE 500 or permission of instructor.
Co-requisites: EDU 303, EDU 307, EDU 309, and EDU 311.
Taught: Fall and spring
This course covers the principles of applied behavior analysis as part of the course, the student will be expected to design and implement a behavior change project. REQUIRED for both IECE and Non-certification track students.

EDS 363 Behavior Mgmt Strategies for Young Child (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: EDS 360 and ECO 301.
Taught: Fall and spring
Capstone course for economics majors. Discussion and analysis of contemporary economic problems. Different topics offered each semester. Written research paper and oral presentation required.

EDS 324 Instructional Planning for Inclusive Secondary Classrooms (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: EDS 360 or PHE 500 or permission of instructor.
Co-requisites: EDU 391. Open to Middle Level Education majors only.
Taught: Fall and spring
This course covers the principles of applied behavior analysis as part of the course, the student will be expected to design and implement a behavior change project. REQUIRED for both IECE and Non-certification track students.

EDS 364 Characteristics of Learning Disabilities (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: EDS 360.
Taught: Spring only
This course covers the principles of applied behavior analysis as part of the course, the student will be expected to design and implement a behavior change project. REQUIRED for both IECE and Non-certification track students.
EDS 365 Characteristics of Emotional/Behavioral Disorder (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: EDS 364.
Taught: Fall only
Covers the nature and needs of students with Emotional/Behavioral Disorders and the development of positive classroom structures and procedures for supporting these students. Knowledge of the history of the field, definitions and causes, eligibility criteria, and examples of the learning and behavior issues associated with EBD will be presented.

EDS 464 Assessment Learning and Behavior Disorders (3 credits)
Hours: 3 classroom + 2 lab/studio
Prerequisites: EDS 364; Co-requisites: EDS 362, EDS 473, and EDS 472.
Taught: Fall only
Principles and procedures of assessment for eligibility determination of students with exceptional abilities and monitoring of student progress.

EDS 562 Early Childhood Special Education Programs (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: EDS 360 or equivalent.
Taught: Spring and summer
Building on knowledge of child development, students will learn to adapt curricula and intervention approaches to support children with special needs.

EDS 570 Working with Families of Students with Disabilities (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Undergraduates must be admitted in to Teacher Education.
Taught: Fall and spring
Information, skills, and resources for effective interaction with parents and families of children with disabilities.

EDS 572 Secondary Special Education Programs (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Undergraduates must be admitted in to Teacher Education.
Taught: Fall and spring
Characteristics of adolescents with learning and behavior disorders; educational programming for secondary students with mild disabilities.

EDS 576 Working with Families of Students with Disabilities (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Completed coursework for certification; valid teaching certificate.
Taught: Fall and spring
Classroom field experience in added area of certification; individual project.

EDU 104 Orientation: Education Profession/Program (1 credit)
Hours: 1 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Fall and spring
Designed to explore the education profession and programs of the Teacher Education Department; Teacher Education Handbook; KY New Teacher Standards; various teacher areas; and includes a field experience component. Education majors must earn a grade of C or better.

EDU 104H Orientation to the Education Profession (1 credit)
Hours: 1 classroom + 0 lab/studio
Taught: Fall only
The purpose of this course is to explore the education profession and the programs in the College of Education and Human Services. The course is intended for anyone who is interested in becoming a teacher. The course will address the KY Teacher Standards, the Teacher Education Handbook, various teaching areas, and include a field experience component. Students must complete this course before they can enroll in any other education courses.

EDU 294 Special Topics in Education (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
This course will cover special topics and current issues in education. May be repeated for credit when topics vary.

EDU 300H Human Growth and Development Honors (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall and spring
Life-span human development; physical, cognitive, social, and personal development especially as these relate to children in school and to the adults who influence them; individual study focusing on student development at specific levels of instruction.

EDU 300H Human Growth and Development (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall and spring
Life-span human development; physical, cognitive, social, and personal development especially as these relate to children in school and to the adults who influence them; individual study focusing on student development at specific levels of instruction.

EDU 301 Interpersonal Interaction and Guidance (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to the teacher education program.
Co-requisites: EDS 322, and EDU 390, EDU 314, EDU 310.
Taught: Fall and spring
Nature and underlying theories of reading processes, development, and sequences of reading
skills; effective instructional design for teaching and assessing learning in K-5 classroom.

EDU 303 Admission Field Experience IECE (2 credits)
Hours: 0 classroom + 4 lab/studio
Prerequisites: 45 semester hours completed, minimum 2.75 overall GPA and acceptable score on PRAXIS I and successfully completed FBI background check.
Co-requisites: EDU 313.
Taught: Fall and spring
Field experience for students who plan to teach elementary school; kindergarten with or without disabilities in a variety of settings.

EDU 304 Reading and Writing Across the Curriculum: Middle Grades (3 credits)
Hours: 3 classroom + 0 lab/studio
Co-requisites: EDU 318, and EDU 394.
Taught: Fall and spring
Nature of the reading and writing process in the middle grades across the curriculum; theory, instructional methods, and materials.

EDU 305 Introduction to Education (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: EDU 104.
Taught: Fall and spring
Examination of teaching as a profession and of schooling as it currently functions in the U.S.; inquiry into contemporary educational theory and practice to assist students in making realistic career decisions.

EDU 305H Introduction to Education Honors (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: EDU 104H.
Taught: Fall only
Examination of teaching as a profession and of schooling as it currently functions in the U.S.; inquiry into contemporary educational theory and practice to assist students in making realistic career decisions.

EDU 306 Teaching Elementary School Mathematics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MAT 140 and MAT 141, each with minimum grade of C; satisfactory completion of professional semester I; admission to the teacher education program.
Co-requisites: EDU 308, EDU 312, EDU 315 and EDU 392.
Taught: Fall and spring
Materials and methods for teaching problem solving, reasoning, communication, and connections of the concepts, skills, and relationships in elementary mathematics including number/computation, geometry/measurement, probability and statistics, and algebraic ideas.

EDU 307 Admission Field Experience Elementary (2 credits)
Hours: 0 classroom + 4 lab/studio
Prerequisites: 45 semester hours completed; 2.75 overall GPA; acceptable score on PRAXIS I and successfully completed FBI background check.
Co-requisites: EDU 313.
Taught: Fall and spring
Introductory field experience for students planning to teach in elementary schools; individual and group activities to assist students in making realistic career decisions.

EDU 308 Teaching Elementary School Science (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: One biology course with lab and one physical science course with lab or SCI 110 and SCI 111 (each with a minimum grade of C); satisfactory completion of Professional Semester I; admission to the teacher education program.
Co-requisites: EDU 306, EDU 315, EDU 312, and EDU 392.
Taught: Fall and spring
Theory, content, and instructional strategies for teaching elementary school science with an emphasis on inquiry-based methods.

EDU 309 Admission Field Experience Middle Grades (2 credits)
Hours: 0 classroom + 4 lab/studio
Prerequisites: 45 semester hours completed; 2.75 overall GPA; acceptable score on PRAXIS I and successfully completed FBI background check.
Taught: Fall and spring
Introductory field experience for students planning to teach in middle grade schools; individual and group activities to assist students in making realistic career decisions.

EDU 310 Teaching Language Arts in Early Grades (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 291 or ENG 151H; successful completion of the admissions practicum; admission to the teacher education program.
Co-requisites: EDU 302, EDU 314 and EDS 322.
Taught: Fall and spring
Objectives, curricula, and instructional materials related to teaching and assessing language arts, writing, and communication in a K-5 classroom.

EDU 311 Admission Field Experience Secondary (2 credits)
Hours: 0 classroom + 4 lab/studio
Prerequisites: 45 semester hours completed; 2.75 overall GPA; acceptable score on PRAXIS I; successfully completed FBI background check.
Taught: Fall and spring
Introductory field experience for students planning to teach in middle or secondary schools; individual and group activities to assist students in making realistic career decisions.

EDU 312 Teaching Social Studies in Early Grades (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 8 semester hours of history/geography; successful completion of Professional Semester I; admission to the teacher education program.
Co-requisites: EDU 306, EDU 308, EDU 315, and EDU 392.
Taught: Fall and spring
Objectives, curricula, and instructional strategies for teaching social studies in elementary schools.

EDU 313 Instructional Technology (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: EDU 104.
Co-requisites: EDU 303, EDU 307, EDU 309, or EDU 311.
Taught: Fall and spring
Materials and methods designed to use technology to enhance learning within and across content areas: emphasis on 21st century skills, technology integration strategies, Internet tools, instructional applications, and technology ethics.

EDU 314 Classroom Management (3 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: Admission to the teacher education program.
Co-requisites: EDU 390, EDU 302, EDS 322.
Taught: Fall and spring
Current research and theory related to planning, organizing, and managing student learning and behavior in the classroom.

EDU 315 Educational Assessment: Elementary Schools (2 credits)
Hours: 2 classroom + 0 lab/studio
Taught: Fall and spring
Concepts and principles of testing needed to select, construct, and interpret assessment instruments used in schools. This course is open to elementary education majors only.

EDU 316 Racism and Sexism in Educational Institutions - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Introduction to the role of educational institutions in perpetuating racism and sexism in the U.S.; theories of prejudice, assimilation, feminism, and cultural reproduction explain patterns of social, cultural, political, psychological, and economic exclusion.
General education credit: Cultural Pluralism

EDU 316H Racism and Sexism in Educational Institutions - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
Role of educational institutions in perpetuating racism and sexism in the U.S. how theories of prejudice, assimilation, feminism, and cultural reproduction explain patterns of social, cultural, political, psychological, and economic exclusion.
EDU 317 Teaching of Phonics in Elementary/Middle School (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to teacher education program.
Taught: Variable, check with department
Methods and materials to focus on phonics as part of reading instruction; use of children's literature to teach phonics in context.

EDU 318 Classroom Climate Management: Middle School (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: Admission to the teacher education program.
Co-requisites: EDU 304 and EDU 394.
Taught: Fall and spring
Current philosophies and methods for creating and sustaining a classroom climate responsive to the unique academic, physical, and social-emotional needs of middle grades students.

EDU 319 Classroom Climate Management
Secondary (1 credit)
Hours: 1 classroom + 0 lab/studio
Prerequisites: Admission to Teacher Education program.
Co-requisites: EDU 393, 324, EDS 324.
Taught: Fall and spring
Current research and theory related to developing, maintaining, and managing effective secondary grades classroom climate.

EDU 320 Family Engagement in the Home, School and Community (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Study of factors contributing to effective relationships with families of young children in home and center-based settings.

EDU 324 Fundamentals of Secondary Education (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: Admission to the teacher education program.
Co-requisites: EDU 393, EDU 319, EDS 324.
Taught: Fall and spring
Principles and strategies for effective secondary school teaching: curriculum planning, general teaching methods, and evaluation strategies.

EDU 325 Educational Assessment Secondary (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: Admission to the Teacher Education Program.
Co-requisites: EDU 386.
Taught: Fall and spring
Concepts and principles of testing needed to select, construct, and interpret assessment instruments used in schools. This course is open to secondary education majors only.

EDU 330 Teaching Science in Secondary School (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in at least 24 credit hours which vary according to major.
Taught: Fall only
Principles and methods for teaching secondary school science concepts, skills, and processes in accordance with national and state standards with emphasis on inquiry including design, implementation, assessment, and evaluation, and reflection-on-practice strategies in connection with technology, meeting all students' needs and integration across the curriculum.

EDU 331 Teaching Social Studies in Secondary School (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to the teacher education program, or concurrently with admission.
Taught: Fall only
Principles and practices related to teaching social studies in accordance with state and national standards; basic social studies skills, professional content, and planning, implementing, and evaluating instruction.

EDU 333 Teaching Math in Secondary School (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MAT 129, MAT 229, MAT 234 or MAT 128, MAT 227, MAT 228 and MAT 234.
Taught: Fall only
Principles and methods for teaching concepts, skills, and relationships in secondary mathematics in accordance with national and state standards including number/computation, geometry/measurement, probability and statistics, and algebraic ideas, and the appropriate use of manipulative and technology tools.

EDU 334 Portfolio Development (1 credit)
Hours: 1 classroom + 0 lab/studio
Taught: Fall and spring
The purpose of this course is to teach students the curriculum standards and teaching methods necessary for a professional career as a teacher.

EDU 343 Educational Assessment Middle Schools (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: Admission to Teacher Education Program.
Co-requisites: EDU 344, EDU 391, EDS 323.
Taught: Fall and spring
Concepts and principles of testing needed to select, construct, and interpret assessment instruments used in schools. This course is open to Middle Grades education majors only.

EDU 344 Fundamentals of Middle Grades Education (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: Admission to the teacher education program.
Co-requisites: EDU 343 and EDU 391.
Taught: Fall and spring
Philosophy and learning theories forming the basis of the middle grades concept; curriculum and lesson planning; including the framework of general teaching methods and motivation.

EDU 345 Teaching Language Arts in Middle Grades (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 12 semester hours of language arts content courses with a grade of C or better chosen from English, speech, or journalism and admission to the teacher education program.
Taught: Fall and spring
Theory, content, and instructional strategies for teaching language arts in the middle grades, including national and state standards.

EDU 346 Teaching Science in Middle Grades (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 12 semester hours science content of C or better chosen from biological and physical sciences (AST, CHE, GLY, PHY) or SCI 110 and 111; one of which must be CHE 105.
Taught: Fall and spring
Principles and methods for teaching middle school science concepts, skills, and processes in accordance with national and state standards with emphasis on inquiry including design, implementation, assessment and evaluation, and reflection-on-practice strategies in connection with technology, meeting all students’ needs and integration across the curriculum.

EDU 347 Teaching Math in Middle Grades (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: At least 12 semester hours in mathematics including a minimum grade of B- in MAT 140 and admission to the teacher education program.
Taught: Fall and spring
Principles and methods for teaching concepts, skills, and relationships in middle grades mathematics in accordance with national and state standards including number/computation, geometry/measurement, probability and statistics, and algebraic ideas, and the appropriate use of manipulative and technology tools.
EDU 348 Teaching Social Studies in Middle Grades (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 12 semester hours of history, geography, economics, political science each with a minimum grade of C; pursuance of middle grades certification in social studies teaching area; admission to the teacher education program.
Taught: Fall and spring
Theory, content, and instructional strategies for teaching social studies in the middle grades; including national and state standards.

EDU 390 Elementary Field Experience I (2 credits)
Hours: 0 classroom + 4 lab/studio
Prerequisites: Admission to the teacher education program; successful completion of EDU 307. Co-requisites: EDU 302, EDU 314, EDS 322.
Taught: Fall and spring
Field experiences in elementary schools; including application of instructional theory to elementary classroom settings.

EDU 391 Middle Grades Field Experience I (2 credits)
Hours: 0 classroom + 4 lab/studio
Prerequisites: successful completion of EDU 308; admission to the teacher education program. Co-requisites: EDU 343, EDU 344 and EDS 323.
Taught: Fall and spring
Field experience in middle grade schools; including application of instructional theory to middle-grade classroom settings.

EDU 392 Elementary Field Experience II (2 credits)
Hours: 0 classroom + 4 lab/studio
Prerequisites: Successful completion of Elementary Practicum I. Co-requisites: EDU 308, EDU 309, EDU 310, and EDU 315.
Taught: Fall and spring
Advanced field experience in elementary schools; including practice in planning and implementing instructional strategies and theory.

EDU 393 Secondary Field Experience I (2 credits)
Hours: 0 classroom + 4 lab/studio
Co-requisites: EDU 319, EDU 324.
Taught: Fall and spring
Field experience in secondary classroom; including application of instructional theory to secondary classroom settings.

EDU 394 Middle Grades Field Experience II (2 credits)
Hours: 0 classroom + 4 lab/studio
Prerequisites: Successful completion of Middle Grades Practicum I. Co-requisites: EDU 304, EDU 318, appropriate methods course.
Taught: Fall and spring
Advanced field experience in middle grades schools; including practice in planning and implementing instructional strategies and theory.

EDU 395 IECE Field Experience I (3 credits)
Hours: 0 classroom + 4 lab/studio
Prerequisites: Minimum 2.75 GPA. Taught: Fall and spring
Practice in assessing, planning and implementing instruction in classroom early childhood setting. Pass/Fail.

EDU 396 Secondary Field Experience II (2 credits)
Hours: 0 classroom + 4 lab/studio
Co-requisites: EDU 325.
Taught: Fall and spring
Advanced field experiences in secondary schools; including practice in planning and implementing instructional strategies and theories.

EDU 397 IECE Field Experience II (3 credits)
Hours: 0 classroom + 4 lab/studio
Prerequisites: Minimum 2.75 GPA. Taught: Fall and spring
Practice in assessing, planning and implementing instruction in non-classroom early childhood setting. Pass/Fail.

EDU 398 Non Cert Field Experience I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Minimum GPA 2.75. Taught: Fall and spring
Practice in assessing, planning and implementing instruction in a variety of non-public school preschool settings.

EDU 399 Independent Study (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: departmental permission. Taught: Variable, check with department Individualized study of a special topic under supervision of a faculty member. May be repeated for credit when topic varies.

EDU 490 Non-certification Final Field Experience (6 credits)
Hours: 0 classroom + 6 lab/studio
Prerequisites: Minimum 2.75 GPA; successful completion of EDU 395 and EDU 397, senior standing. Taught: Fall and spring
Supervised culminating experience in programs for children and their families for students completing Early Childhood Education Non-certification track.

EDU 491 Clinical Experience in IECE (12 credits)
Hours: 0 classroom + 12 lab/studio
Prerequisites: Minimum 2.75 GPA and successful completion of EDU 395 and EDU 397. Taught: Fall, winter, spring and summer
Supervised culminating classroom experience in schools for students completing Early Childhood Education IECE Certification track.

EDU 492 Clinical Experience Elementary with Special Education (12 credits)
Hours: 0 classroom + 12 lab/studio
Taught: Fall and spring
Classroom experiences through observing, planning, and teaching supervised by an experienced teacher; eight-week assignment to an elementary classroom grades K-5; eight-week assignment to a special education program grades P-12.

EDU 493 Clinical Experience Middle Grades with Special Education (12 credits)
Hours: 0 classroom + 12 lab/studio
Prerequisites: Admission to middle grades and special education student teaching program. Taught: Fall and spring
Classroom experiences through observing, planning, and teaching under supervision of an experienced teacher; eight-week assignment to a middle grades classroom, grades 5-9; eight-week assignment to a special education program grades P-12.

EDU 494 Clinical Experience Elementary (12 credits)
Hours: 0 classroom + 12 lab/studio
Prerequisites: admission to the elementary education student teaching program. Taught: Fall and spring
Classroom experiences through observing, planning, and teaching under supervision of an experienced teacher; one-half semester assignment to each of two non-consecutive elementary classroom grades P-5.

EDU 495 Clinical Experience Middle Grades (12 credits)
Hours: 0 classroom + 12 lab/studio
Prerequisites: admission to the middle grades student teaching program. Taught: Fall and spring
Classroom experiences through observation, planning, and teaching under supervision of an experienced middle-grades teacher; grades 5-9.

EDU 496 Clinical Experience Secondary (12 credits)
Hours: 0 classroom + 12 lab/studio
Prerequisites: Admission to secondary student teaching. Taught: Fall and spring
Classroom experiences through observation, planning, and teaching under supervision of an experienced secondary teacher; full semester
assignment to a secondary classroom, grades 8-12.

EDU 497 Clinical Experience Secondary with Special Education (12 credits)
Hours: 0 classroom + 12 lab/studio
Taught: Fall and spring
Classroom experiences through observing, planning, and teaching supervised by an experienced teacher; eight-week assignment in a secondary classroom grades 8-12; eight-week assignment to a special education program grades P-12.

EDU 500 Core Principles of Early Childhood Edu (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Study of development, theories and appropriate practice for children ages 0-8 years.

EDU 525 Differentiated Literacy Instruction (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Undergraduates: Admission to the Teacher Education Program; Graduates: Enrolled in the MAED Program or Permission of Instructor.
Taught: Variable, check with department
This course is designed to give pre-service and in-service teachers a more in depth understanding of the need to differentiate literacy instruction to meet the needs of increasingly diverse students. Students will survey major issues in appropriate differentiated literacy instruction, with many instructional practices that will be discussed, modeled, and/or evaluated.

EDU 530 Reading in Junior and Senior High School (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Principles and procedures related to reading in grades B-12; basic reading skills, study skills, content fields, and reading programs. For teachers of all subjects. Required of students seeking certification to teach English.

EDU 540 Teaching the Underground Railroad (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Summer only
Research about the Underground Railroad, with an emphasis on local history, to assist teachers in classroom instruction.

EDU 544 Aquatic Ecology for Teachers (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Integration of biology, geology, meteorology, chemistry, and physical sciences to examine water quality through field-based investigation of the Ohio River and streams. Students apply the content and skills learned during the course to the State/School District Science Standards and a lesson plan.

EDU 545 Fundamentals of Environmental Education (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Introduction to the field of environmental education, including the history and philosophy, methodologies, state initiatives, national standards, and current trends in the field.

EDU 546 Teaching Environmental Education (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
Principles and goals, curriculum models, teaching strategies, classroom and community resources, outdoor education, and research.

EDU 550 Current Trends in Early Childhood Education (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Examination of current issues, trends, public policy, and research in early childhood education.

EDU 551 Preschool Education and Programming (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to the teacher education program; EDU 360.
Taught: Variable, check with department
Overview of preschool curricula, history of early childhood education, and study of developmentally appropriate activities across subject areas.

EDU 552 Infant Toddler Education and Programming (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
The relationship of child development theory and developmentally appropriate practice in group settings for infants and toddlers.

EDU 554 Language Development and Emergent Literacy (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Overview of historical and theoretical concepts, assessment of early literacy development, and strategies for facilitating reading, writing, and language instruction across various early childhood settings.

EDU 555 Language Arts Methods Middle Grades (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: EDU 525, check with department
Advanced objectives, curricula, and instructional strategies to teach state and national language arts standards in the middle grades.

EDU 556 Ongoing Assessment in Early Childhood Education (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: EDUs 544, 545, 546, or equivalent.
Taught: Variable, check with department
Overview of on-going curriculum-based assessment systems for observing and documenting young children’s growth, development and learning.

EDU 567 Math and Science Exploration PreK-3rd (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-odd yrs
Integrated mathematics and science learning experiences from both the Early Childhood Education teacher and the students’ perspectives emphasizing exploration, problem-solving, and discourse. REQUIRED for IECE and Non-Certification tracks.

EDU 575 Language Arts Methods Middle Grades (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to teacher education program and EDU 360.
Taught: Variable, check with department
The study of strategies and dispositions needed for managing effective early childhood programs.

EDU 576 Science Methods Middle Grades (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: COEHS Advising Center permission.
Taught: Variable, check with department
Advanced objectives, curricula, and instructional strategies to teach state and national science standards in the middle grades.
EDMT 542 Method and Pedagogy in Middle School/Secondary Business/Marketing (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Theories, methods/techniques and technologies in designing, delivering and evaluating instruction in middle school and high school business/marketing.

EDMT 543 Method and Pedagogy in Middle School/Secondary Science (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Theories, methods, techniques and technologies in designing, delivering and evaluating instruction in middle school and high school science.

EDMT 544 Method and Pedagogy in Middle School/Secondary Math (3 credits)
Hours: 3 classroom + 0 lab/studio
Co-requisites: EDMT 696.
Taught: Fall only
Theories, methods/techniques and technologies in designing, delivering and evaluating instruction in middle school and high school mathematics.

EDMT 545 Method and Pedagogy in Middle School/Secondary Social Studies (3 credits)
Hours: 3 classroom + 0 lab/studio
Co-requisites: EDMT 696.
Taught: Fall only
Theories, methods/techniques and technologies in designing, delivering and evaluating instruction in middle school and high school social studies.

EDMT 546 Method & Pedagogy in Middle Grades LA (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 12 semester hours of language arts content course with a grade of C or better chosen from English, Speech, or Journalism and admission to the Teacher Education program.
Taught: Fall and spring
Theory, content and instructional strategies for teaching language arts in the middle grades; including national and state standards.

EDMT 594 Topics in Education (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Various advanced topics in education.

EDMT 599 Independent Study: Education (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Individual supervised readings and study of a selected topic in education. May be repeated as topics vary.

EDMT 590 Topics in Education (3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Various advanced topics in education.

Engineering Technology Courses (EGT)

EGT 110 Introduction to Engineering/Technology - NS (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MAHD 099 or ACT of 22 or higher.
Taught: Fall, spring, and summer
Provides the computational skills needed to solve design problems. The course introduces concepts from an introduction to computer graphics and parametric design, basic electronics, basic mechanics, and engineering calculations; technology computer applications; and spreadsheets for engineering calculations.
General education credit: Natural Science

EGT 111 Introduction to Manufacturing (3 credits)
Hours: 2 classroom + 2 lab/studio
Taught: Fall and spring
Fundamentals of welding and metal processing methods; metal casting, shaping, metal forming, bulk deformation processes.

EGT 161 DC Circuit Analysis (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: MAHD 099 or ACT math 22 or higher.
Taught: Fall and spring
Basic laws and theories, voltages, current, power, and resistance; resistive circuits in direct current circuits; analysis and applications. Mesh and node equations used in circuit analysis. Same as PHY 161.

EGT 211 Quality Control (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: STA 205.
Taught: Summer only
Control and assurance of quality and reliability; management of quality function in the industrial setting.

EGT 212 Computer-Aided Drafting and Design (3 credits)
Hours: 2 classroom + 2 lab/studio
Taught: Fall and spring
Fundamentals of computer-aided drafting; production of technical drawings using CAD software; working drawings; standard machine elements; tolerance dimensioning.

EGT 260 Industrial Standards, Safety, and Codes (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
This course is designed to teach an overview of the standard or occupational health systems such as: Six Sigma, ISO 9001, ISO 1400, OSHA standards, ISO 13485, or Baldrige Criteria.

EGT 261 Engineering Materials (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: CHE 120.
Taught: Fall only
Structures, properties, applications, and failure modes of materials, both metallic and nonmetallic; heat treatment and processing effects on microstructure; introduction to chemical properties; principles and applications of destructive and nondestructive testing.

EGT 265 Manufacturing Processes and Metrology (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisite OR Co-requisite: EGT 116.
Taught: Spring only
Principles and applications of precision machining, volume production, assembly methodology, advanced concepts in manufacturing operations, and introduction to metrology (e.g. calibration, documentation, and standards are discussed).

EGT 267 Programming for Engineering Applications (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: INF 120 or placement and EGT 161.
Taught: Fall and spring
Engineering programming using Integrated Development Environment. Topics include: data types, control flow, decisions, functions, routines, algorithms, real time considerations, embedded applications, and use of micro-controllers (e.g. Arduino, Raspberry Pi) for engineering applications, case studies, projects, and problems as applied to Engineering Technology applications (e.g. LabView environment).
EGT 280 Introduction to Microtechnology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PHY 211.
Taught: Summer only
Introduction to microtechnology including materials properties (physical, thermal, electrical, and mechanical), fundamentals of microfabrication including various deposition methods, photolithography, etching, LIGA electroplating, and self-assembly characterization of small structures and applications of microdevices such as MEMS sensors and actuators, accelerometers, optical switches and microfluidics.

EGT 291W Writing in Engineering Technology - WC (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or ENG 151H.
Taught: Spring only
Introduction to writing for the engineering and engineering technology professions. Definitions, descriptions, presentations, reports, manuals, and proposals are covered. Reader-centered, process-driven writing and presentation skills are developed centered on the engineering professions. Open to engineering technology, pre-engineering, or others with permission of the instructor.
General education credit: Written Communication II

EGT 292 Research Experience in Engineering Technology (0 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Consent of instructor and department chair.
Taught: Fall, spring, and summer
Original research work directed by one or more members of the engineering technology faculty. May be taken more than once. Pass/fail grade only.

EGT 300 Statics and Strength of Materials (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MAT 128 or MAT 129 and PHY 211.
Taught: Fall only
Theory and application of the mechanics of rigid bodies in equilibrium; mechanical properties of materials; stress; strain; torsion; shear force and bending moments; beam deflection; combined loading.

EGT 301 Cooperative Education in Engineering Technology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: consent of instructor.
Taught: Fall, spring, and summer
This course provides students an opportunity to apply the knowledge and skills they are learning in the classroom to an employment position in business or industry. It allows students to test and refine career plans and interests; gain experience in their field of specialty before they begin searching for a permanent position; and build a network of professional contacts from which they may draw technical and employment information.

EGT 310 Project Management and Problem Solving (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: STA 205.
Taught: Fall and spring
Industrial project management practices: project implementation methods; resource selection; risks and failures; project management tools and techniques related to manufacturing projects. Problem-solving models; quantitative and qualitative decision-making strategies, including economic analysis; ethical, environmental, and social issues; impact of creative thinking, critical thinking, and problem solving on the design and quality of products and services.

EGT 318 Introduction to Nanotechnology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: CHE 120.
Taught: Summer only
Introduction to nanotechnology, fabrication and characterization of nano-scale structures, properties of nanostructures, nanostructured materials, wires and dots, nanobiology/nanomedicine, nanomagnetics, nanotubes, nanoelectronics, and nanoelectromechanical systems.

EGT 320 Robotic Systems and Material Handling (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EGT 161.
Taught: Spring only
Structure and operational characteristics; principles and theory of robot movement, robot teach/programming, program languages, robot arm, robot controller, work station. Material handling related to manufacturing, warehousing, type of equipment used and different concepts of material handling are covered.

EGT 321 Productivity Management, Scheduling, and Planning (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MAT 119 and EGT 211.
Taught: Fall only/even years
The integration of systems required to improve work flow through the system, scheduling and coordination of projects. Systems of time management and work simplification; analysis of manufacturing and production problems including purchasing, work methods, inventory, material handling, production planning, and cost analysis.

EGT 340 Applied Dynamics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PHY 211 and MAT 129 or MAT 227.
Taught: Spring only
Theories and applications of dynamic mechanics, including Newton’s laws, work, kinetics, impulse, and momentum.

EGT 341 Integrated Resource Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: EGT 321.
Taught: Spring only-odd yrs
This course utilizes the techniques of enterprise management. The course will focus on contrast and integration strategies, JIT techniques, integration, application, and implementation.

EGT 343 AC Circuit Analysis (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EGT 161 and MAT 119.
Taught: Spring only-odd yrs
Application of basic electrical circuit analysis to alternating current systems; capacitors, inductors, transformers, and circuits using these components. Mesh and loop analysis, multiphase.

EGT 344 Analog Electronics (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EGT 161 and a B- or better in MAT 119 or placement.
Taught: Fall only/even years
Introduction to solid state, diodes, bipolar and field-effect transistors, small-signal amplifiers; power amplifiers, voltage regulators, and active filters.

EGT 345 Digital Electronics (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: B- or greater in MAT 119 or placement.
Prerequisite OR Co-requisite: EGT 161.
Taught: Fall only-even years
Digital circuits; logic, registers, counters, arithmetic circuits, and memories.

EGT 348 Electronic CAD (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EGT 212.
Taught: Variable, check with department
Computer-aided design of electrical and electronic systems; schematic capture techniques; advanced circuit simulation.

EGT 361 Fluid Power (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: MAT 129 or MAT 227; PHY 211.
Taught: Fall only
Basic laws and concepts of fluid mechanics and their applications to fluid power circuits.
EGT 362 Tool Design and Computer Aided Manufacturing (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EGT 116 and EGT 212.
Taught: Spring only
Design and selection of mechanical elements such as fasteners, cams, jigs, fixtures, and tools, utilizing Computer Aided Manufacturing software.

EGT 365 CNC & Manufacturing Process Planning (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EGT 212 and EGT 265 and a B- or greater in MAT 119 or placement.
Taught: Fall only
Course provides knowledge needed to set up and program Computer Numerical Control (CNC) machines equipped with EIA or Conversational programming formats. The general application of information will be discussed, along with practical training on CNC machines. Topics such as: Manufacturing process planning, selecting resources for use in the execution and completion of a CNC project will be covered.

EGT 367 Microprocessors (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EGT 345.
Taught: Fall only even years
Architecture and instruction sets; programming, interfacing, and designing with microprocessors.

EGT 380 Machine Design (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EGT 300 or EGT 340.
Taught: Fall only
Techniques involved in designing and selecting individual machine parts. An integrated approach to the design of machine elements.

EGT 386 Electro-Mechanical Instrumentation and Control (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EGT 161.
Taught: Fall only
Introduction to the design of instrumentation and control systems. Study of thermal, mechanical, optical, and digital sensor operations and applications. Introduction to data acquisition systems. Laboratory experimentation involving the programmable logic controls for designing different logics to control devices and selecting sensors to gather and utilize data from the equipment at hand.

EGT 394 Special Topics (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Junior standing
Taught: Variable, check with department
Focused study of a specific topic. Topics vary from semester to semester. May be repeated once for credit.

EGT 396 Undergraduate Laboratory Assistant (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Engineering Technology GPA of at least 3.0, Junior standing and consent of instructor.
Taught: Fall, spring, and summer
Participation in planning, setting-up, teaching, conducting reviews, and testing for an undergraduate laboratory course. For students majoring in engineering technology. Repeatable for a maximum of 6 semester hours. Not applicable to major or minor.

EGT 399 Independent Study: Engineering Technology (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of advisor.
Taught: Variable, check with department
For advanced students seeking to study selected problems.

EGT 404 Signals and Systems (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: EGT 343 and MAT 227 or MAT 129.
Taught: Spring only even yrs
Advanced circuit analysis techniques; time domain and frequency domain solutions; Laplace transforms; z-transforms; Fourier analysis; discrete-time systems.

EGT 405 Metrology and Geometric Tolerancing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: EGT 211 and EGT 212.
Taught: Spring only even yrs
Metrology requirements and geometric tolerancing; calibration systems, gauge studies, measurement elements, analysis and presentation of measurement data, quality implications.

EGT 408 Mechatronics Topics (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EGT 386.
Taught: Fall only even years
Design, optimization, and simulation of electronic, mechanical, and control systems. Applications and case studies in system control, electromechanical systems, and intelligent adaptive systems.

EGT 411 Quality Assurance and Auditing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: EGT 211.
Taught: Variable, check with department
Organizing and implementing the quality audit; types of audits; ISO 9000 quality standards; audit planning, execution, testing, reliability, and system appraisal.

EGT 412 Advanced CADD (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EGT 212.
Taught: Fall only
Advanced features of three dimensional and parametric modeling, using one of the common parametric (CADD) packages.

EGT 417 Senior Design in Technology (3 credits)
Hours: 1 classroom + 4 lab/studio
Prerequisites: Senior standing.
Taught: Fall, spring, and summer
Preparation and proposal for the capstone project design in an area of student's primary program major. After the preparation and proposal is prepared, with permission from their advisors, students design, build, document, demonstrate, and present the results. Must be taken within three semesters of graduation, may be repeated up to 9 semester hours.

EGT 423 Planning and Design of Industrial Facilities (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EGT 345.
Taught: Spring only
Planning, estimating, designing, and modeling industrial facilities; management, personnel, production, aesthetics, and the environment.

EGT 448 Network Hardware (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EGT 345.
Taught: Fall only even years
Concepts and examples of network hardware used in data communications, including introduction to advanced concepts. Transmission media, data links, multiplexing, carrier systems, digital transmission systems, routers, interfaces, data transmission.

EGT 450 Thermodynamics and Heat Transfer (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: MAT 129 or MAT 227, and PHY 211.
Taught: Spring only
Fundamentals of thermodynamics, first and second laws of thermodynamics, properties of liquids and gases; air-conditioning and refrigeration systems; power cycles; modes of heat transfer (conduction, convection, and radiation and their applications in technology); computer simulations of thermodynamics and heat transfer processes.

EGT 462 Finite Element Modeling (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EGT 412.
Taught: Spring only
Fundamentals of finite element modeling, creation of geometry, material selection, and problem solving. The course focuses on FEA modeling techniques utilizing CAD/CAE software.
General education credit: Cultural Pluralism

socioeconomic differences between local, international and national communities on media

white women and men and women

-interpretation of the most commonly used scripts in broadcasting; the studio interview.

-Theory and practice of directing both scripted and nonscripted types of productions.

-Introduction to and understanding of personal work experience.

-General education credit: Culture and Creativity

EMB 110 Introduction to Mass Media (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Introduction to program and profession; organization, operations, programming, audience measurement, and impact of electronic media; legal, economic and social controls of radio, TV, cable, new media, and corporate media within a historical framework.

EMB 140 Introduction to Media Aesthetics (3 credits)
Hours: 2 classroom + 4 lab/studio
Taught: Fall and spring
Introduction to the aesthetics and basic technologies of creating audio, video and interactive media. A course grounded in theoretical concepts with practical application.

EMB 210 Single Camera Production (3 credits)
Hours: 2 classroom + 4 lab/studio
Prerequisites: Completion of EMB 140 with a C or better.
Taught: Fall and spring
Theory and practice in television performance; work on the commercial, the public service announcement, the newscast, and the studio interview.

EMB 215 Audio Production (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Completion of EMB 140 with a C or better.
Taught: Fall and spring
Introduction to small format, video program design and development; theory and practice of single camera storytelling and editing.

EMB 230 Broadcast Announcing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Completion of EMB 215 with a C or better.
Taught: Variable, check with department
Theory and practice in delivery techniques for media, including work on voice, diction, and pronunciation; development of a cultural framework essential for versatility in announcing; interpretation of the commonly used scripts in broadcasting; the studio interview.

EMB 260 Writing for the Media (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Successful completion of General Education Written Communication II requirement.
Taught: Fall and spring
Non-journalistic writing techniques and styles used in television and radio including narrative and documentary modes of storytelling.

EMB 305 Multicamera Video Production (3 credits)
Hours: 2 classroom + 4 lab/studio
Prerequisites: Completion of EMB 210 and EMB 215 with a C or better.
Taught: Fall and spring
Principles and techniques of directing both scripted and nonscripted multicamera studio-based productions; examination of problems of the director and aesthetics of television; discussion, selected readings, and productions.

EMB 307 Broadcast Programming (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Completion of EMB 110 with a C or better.
Taught: Spring only
Strategies of program selection, scheduling, and evaluation; audience ratings, research, and analysis.

EMB 310 Newscast Production (3 credits)
Hours: 2 classroom + 4 lab/studio
Prerequisites: Completion of EMB 140 or JOU 230 with a C or better.
Taught: Fall and spring
Advanced electronic news gathering and electronic field production techniques with emphasis on broadcast quality scripting, tapping, and editing.

EMB 311 History of Broadcasting (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Completion of EMB 110 with a C or better.
Taught: Variable, check with department
Development of electronic media, principally in the U.S., from their origins as 19th century instruments of science to the present; broadcasting as a vehicle of expression and as an industry.

EMB 313 Media Sales, Advertising, and Promotion (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
An examination of the principles and problems associated with valuing, selling, and promoting media. Includes campaign development, the valuation of air time, working inside and outside a network environment and the use of alternative media outlets.

EMB 315 Media Performance (3 credits)
Hours: 2 classroom + 4 lab/studio
Prerequisites: Completion of EMB 230 with a C or better.
Taught: Variable, check with department
Theory and practice in television performance techniques; interpretation and use of scripts in television; various nonscripted types of performance; work on the commercial, the public service announcement, the newscast, and the interview.

EMB 317 Electronic Field Production (3 credits)
Hours: 2 classroom + 4 lab/studio
Prerequisites: Completion of EMB 215 with a C or better.
Taught: Variable, check with department
Introduction to and understanding of personal work experience.

EMB 467 Advanced Microprocessors (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EGT 345.
Taught: Spring only
Advanced architectures, multitasking, virtual memory, networking, assembly language.

EGT 465 Automated Manufacturing Systems (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EGT 320 and EGT 365.
Taught: Spring only
Integrated manufacturing automation including CIM/FMS, system controls, fixed systems, robotics, and economics of automation.

EGT 100 Media Literacy - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Fundamental concepts of mediated communication; analysis of roles, functions, and influence of media on individuals and society. This course will cast a critical eye on the media that we interact with each day: radio, television, newspapers, magazines, books, films, and the Internet. We will dissect media’s history and its vast reach into our daily lives and culture. The goal of this course is to stimulate your critical thinking concerning media and its effects, both historically and currently, and to make you as a student and consumer more aware of the power that media and media companies hold. After taking this course you should be able to recognize, interpret, encode and articulate your opinions on media messages.

EMB 100 Media Literacy - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Fundamental concepts of mediated communication; analysis of roles, functions, and influence of media on individuals and society. This course will cast a critical eye on the media that we interact with each day: radio, television, newspapers, magazines, books, films, and the Internet. We will dissect media’s history and its vast reach into our daily lives and culture. The goal of this course is to stimulate your critical thinking concerning media and its effects, both historically and currently, and to make you as a student and consumer more aware of the power that media and media companies hold. After taking this course you should be able to recognize, interpret, encode and articulate your opinions on media messages.

EMB 105 Race, Gender, and the Mass Media - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Mass Media’s influence on perceptions of race and gender in the U.S. and abroad—the local, national and international influence of economics, politics, cultural diversity, and education on your life and society as portrayed through the mass media; historical development of the portrayals of white women and men and women and men of color from diverse cultures in the U.S. and International mass media; impact of cultural and socioeconomic differences between local, national and international communities on media production and use; influence of cultural and socioeconomic differences in shaping and understanding personal world views.

EMB 260 Writing for the Media (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Successful completion of General Education Written Communication II requirement.
Taught: Fall and spring
Non-journalistic writing techniques and styles used in television and radio including narrative and documentary modes of storytelling.
EMB 320 Multitrack Audio Mixing (3 credits)
Hours: 2 classroom + 4 lab/studio
Prerequisites: Completion of EMB 215 with a C or better.
Taught: Variable, check with department
Practice in advanced audio production including multitrack recording and mixing.

EMB 325 Advanced Media Performance (3 credits)
Hours: 2 classroom + 4 lab/studio
Prerequisites: Completion of EMB 315 with a C or better.
Taught: Variable, check with department
Practicum in advanced audio production including multitrack recording and mixing.

EMB 370 International Media (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Completion of EMB 110 with a C or better.
Taught: Variable, check with department
Intensive practice in the form of television performance currently employed in both commercial and noncommercial television; the dramatic and comedy sequence, announcing, show-hosting, and news reporting.

EMB 380 Documentary Theory and History (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Completion of EMB 140 with a C or better.
Taught: Spring only
Survey and analysis of the social, cultural, economic, and political factors that influence the creation and consumption of media around the world.

EMB 394 Topics: Electronic Media & Broadcasting (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies according to topic.
Taught: Variable, check with department
Focused study of a specific and significant topic concerning electronic media and broadcasting. Topics vary from semester to semester. May be repeated for a maximum of 6 credit hours.

EMB 395 Special Topics: Study Away (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies by topic, check with department.
Taught: Variable, check with department
Course includes a classroom portion and a travel experience inside the United States.

EMB 396 Internship: Electronic Media and Broadcasting (3-6 credits)
Hours: 0 classroom + 12-24 lab/studio
Prerequisites: Written consent of the supervising faculty member; Junior or senior standing; GPA of at least 2.75.
Taught: Variable, check with department
Selected placement of qualified students in off-campus telecommunications (television, radio, or audio facilities. Work experiences include programming, writing, production, sales, promotion, and management and may involve broadcast or non-broadcast facilities.

EMB 397 Projects (3 credits)
Hours: 0 classroom + 12 lab/studio
Prerequisites: Written consent of instructor.
Taught: Variable, check with department
Practical application of various broadcasting techniques. May be repeated for a maximum of 6 semester hours.

EMB 400 Media Criticism (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Completion of EMB 110 with a C or better; Junior or senior standing.
Taught: Fall and spring
Seminar designed to develop an increased sensitivity to the effectiveness of broadcasting in fulfilling its societal role both as an art form and as a vehicle for the dissemination of information to society. Criteria of criticism are developed largely in response to broadcast programming.

EMB 421 Narrative Production (3 credits)
Hours: 2 classroom + 4 lab/studio
Prerequisites: Completion of EMB 210 with a C or better.
Taught: Spring only
Theory and practice of digital cinema production through the pre-production, production, and post-production of individual student projects. Working alone and in groups students will develop their cinematic storytelling skills while creating short films.

EMB 422 Video Editing (3 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: Completion of EMB 210 with a C or better.
Taught: Fall and spring
Concepts and techniques of digital, non-linear video editing.

EMB 423 Documentary Production (3 credits)
Hours: 2 classroom + 4 lab/studio
Prerequisites: Completion of EMB 210 with a C or better.
Taught: Fall only
This course involves planning and producing video documentaries. Students will develop the tools to tell reality-based stories, to document and give voice to ideas and perspectives on events from our shared world to raise public awareness about social matters.

EMB 424 Digital Cinema Projects (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Completion of EMB 210 with a C or better.
Taught: Variable, check with department
This course introduces students to all aspects of pre-production, production, and post-production of a single digital cinema project. Students will be immersed in a real-world production environment, allowing observation of all areas of the production process while participating in a single role, resulting in a professional-quality finished product. May be repeated for a maximum of 6 semester hours.

EMB 425 Studio 89 (3 credits)
Hours: 2 classroom + 4 lab/studio
Prerequisites: Completion of EMB 210 with a C or better.
Taught: Variable, check with department
This course is a hands-on practical class that utilizes television multi-camera skills to produce an in-studio music program for television distribution. This course augments WKU “Studio 89” live studio concert with a multicamera video production. May be repeated for a maximum of 6 semester hours.

EMB 426 Finishing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Completion of EMB 210 with a C or better.
Taught: Variable, check with department
This course introduces the theory and aesthetics elements germane to and creation of composited graphics and video. Students will create their own composite projects using provided and self-created elements.

EMB 435 Media Studies (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Completion of EMB 210 with a C or better.
Taught: Variable, check with department
This course explores a genre of media along with the historical position, development and social significance of the genre. The specific approach and genre may vary with each session.

EMB 450 Screenwriting (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Completion of EMB 260 with a C or better.
Taught: Fall and spring
Practice in creative writing for broadcast or cinema, stemming from original stories and those based upon existing works.
EMB 460 Producing Seminar (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in EMB 210.
Taught: Fall and spring
This course trains students to develop movies, documentaries and television programs. Addresses planning, organizing, budgeting, motivation, staffing, and controlling media productions of various scales.

EMB 495 Special Topics: Study Abroad (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Varies by topic.
Taught: Variable, check with department
Varies by topic. Course includes a classroom portion and a trip abroad.

EMB 499 Independent Study (1-3 credits)
Hours: 0 classroom + 4-12 lab/studio
Prerequisites: Junior or senior standing; minimum GPA of 2.50; written consent of instructor.
Taught: Variable, check with department
Individually supervised work involving reading, research and/or production in a specified area of interest. Topic selected before registration in conference with instructor. May be repeated for a maximum of 6 semester hours.

English Courses (ENG)

ENG 101 College Writing - WC (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: English and Reading ACT/SAT/COMPASS/IELTS/TOEFL scores as announced in current Schedule of Classes; OR placement test; OR, depending upon placement, completion of ENGD 090, ENGI 099 and/or RDG 091, or transfer equivalent with a C- or better.
Taught: Fall, spring, and summer
Study and practice of writing with attention to audience, purpose, and conventions appropriate to writing situation; reading, writing, and analyzing a variety of texts, including written, digital, or visual.

General education credit: Written Communication I

ENG 151H Honors Freshman Composition - WC (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 26 or above on the current ACT or comparable score on the enhanced ACT, or equivalent; evidence of writing proficiency; approval of department.
Taught: Fall and spring
Advanced study and practice of writing with attention to both narrative and rhetorical writing strategies; attention to audience, purpose, and conventions appropriate to writing situations; reading, writing, and analyzing a variety of texts, including written, digital, or visual.

ENG 200 Understanding Literature - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Students will develop skills in critical thinking and in understanding multiple perspectives and identities through the study of fiction, poetry, drama, and visual narrative.

General education credit: Culture and Creativity

ENG 201 Ideas in Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or ENG 151 or equivalent and sophomore standing.
Taught: Variable, check with department
Works representing a variety of literary forms and reflecting a common theme or motif. Topics vary.

ENG 202 Survey of British Literature I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or 151 or equivalent.
Taught: Fall and spring
Anglo-Saxon period to the 18th century; emphasis on more important writers, with attention to their cultural background.

ENG 203 Survey of British Literature II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or 151 or equivalent.
Taught: Fall only
Romantic period to the present; emphasis on more important writers with attention to their cultural background.

ENG 204 Introduction to Writing Studies (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or ENG 151.
Taught: Fall only
An introduction to the study of written communication with an emphasis on histories and models of writing, textual analysis, and technologies of writing. Students will investigate a variety of genres in professional writing, public writing, personal and autobiographical writing, writing for new media, and persuasive writing.

ENG 205 Contemporary Issues in Writing Studies (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or ENG 151 or equivalent.
Taught: Variable, check with department
Investigation into specific contemporary issues in Writing Studies, such as gender, writing for racial justice, and writing with multimedia.

ENG 206 Western World Literature I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or 151 or equivalent.
Taught: Fall only
Important works of continental European literature, in translation, from its origins to the Renaissance.

ENG 207 Western World Literature II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or 151 or equivalent.
Taught: Variable, check with department
Important works of continental European literature, in translation, from the Renaissance to the present; ideas, techniques, and influences.

ENG 208 Survey of American Literature I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or 151 or equivalent.
Taught: Fall and spring
Beginnings to the Civil War.

ENG 209 Survey of American Literature II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or 151 or equivalent.
Taught: Fall and spring
Civil War to the present.

ENG 213 Global Viewpoints in Literature - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Encourages critical thinking and the understanding of perspectives and identities in a global and historical context through the study of narrative, poetry, drama, and film.

General education credit: Global Viewpoints

ENG 214 Literature Across History - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Major works of fiction, non-fiction, poetry, and drama in American, British, or World history.

General education credit: Culture and Creativity

ENG 215 Greek and Roman Mythology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or ENG 151 or equivalent.
Taught: Variable, check with department
Survey of classical pantheon of gods and heroes and their development from early Greek civilization to imperial Rome; influence of classical mythology on later national literatures.
ENG 217 African-American Literature to 1940 (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101, 151 or equivalent.
Taught: Fall only-odd years
Works by African American authors 1746-1940. Cultural, historical, and social issues with focus on development of field as a distinct tradition.

ENG 218 African-American Literature 1940-Present (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101, 151 or equivalent.
Taught: Spring only-even yrs
Works by African American authors 1940-present. Cultural, historical, and social issues with focus on development of field as a distinct tradition.

ENG 231 Introduction to Creative Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or 151 or equivalent.
Taught: Fall and spring
Creative writing, emphasis on composing fiction, poetry, and creative nonfiction.

ENG 250 Introduction to English Studies (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or ENG 151.
Taught: Fall and spring
Explore the different fields of English Studies, and practice the skills for engaging texts as English Studies practitioners – including reading, interpretation, argumentation, research, and writing.

ENG 291 Advanced College Writing - WC (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or ENG 151.
Taught: Fall, spring, and summer
Study and practice of writing in a variety of expository forms, with attention to audience, purpose, and conventions appropriate to writing situation; emphasis on research-based writing and persuasive strategies.

ENG 292 Advanced College Writing II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 291.
Taught: Fall and spring
Class analysis of student work and the development of writing and persuasive strategies.

ENG 293 Writing and Argumentation (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or 151.
Taught: Fall and spring
Study and practice of writing in expository forms, with attention to audience.

ENG 302 Literature and Film - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or ENG 151H or equivalent.
Taught: Fall and spring
The art of film and its relationship to literature; films shown are cinematic versions of literary texts or have special relationships to literature.

ENG 303 Introduction to Post-Colonial Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 151H, ENG 291 or equivalent.
Taught: Variable, check with department
Fundamental concepts of Post-Colonial literature. A variety of literary forms and works by major postcolonial and diasporic writers. Issues of literary representation and canon formation during the latter half of the twentieth century.

ENG 304 Multicultural American Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101, 151, or equivalent.
Taught: Variable, check with department
Study of writers in two or more ethnic American literatures e.g., American Indian, African American, Asian American, and Latino.

ENG 305 American Women Writers (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 151H, ENG 291 or equivalent.
Taught: Variable, check with department
Study of American women writers, from the 17th through the 20th century.

ENG 306 American Women Writers II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 151H, ENG 291 or equivalent.
Taught: Variable, check with department
Study of writers in two or more ethnic American literatures e.g., American Indian, African American, Asian American, and Latino.

ENG 307 Shakespeare I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 151H, ENG 291 or equivalent.
Taught: Fall and spring
The early period, the English histories, the comedies, and Hamlet. TRADITIONS (PRE-1800).

ENG 308 Literature and Sexuality (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 151H, ENG 291 or equivalent.
Taught: Fall only
Literature and theory by writers who identify as lesbian, gay, bisexual, and/or trans-gendered or who represent these identities in literature.

ENG 309 Shakespeare II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 151H, ENG 291 or equivalent.
Taught: Fall and spring
Plays not studied in ENG 308, including the romances, satires, and tragedies. TRADITIONS (PRE-1800).

ENG 310 American Women Poets (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 151H, ENG 291 or equivalent.
Taught: Variable, check with department
Lives and works of selected poets, including African-Americans.

ENG 311 The Bible as Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 151H, ENG 291 or equivalent.
Taught: Variable, check with department
Nonsectarian presentation of biblical history, ideas and literary forms and techniques.

ENG 312 American Novel (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 151H, ENG 291 or equivalent.
Taught: Variable, check with department
Novels from various periods; techniques, ideas, and social implications.

ENG 313 American Short Story (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 151H, ENG 291 or equivalent.
Taught: Variable, check with department
Techniques of short story, novelette, novel, and drama in-class analysis of student work and the
subsequent revision, reevaluation, and marketing of student writing. CREATIVE WRITING.

ENG 334 Poetry Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 291.
Taught: Spring only
Practice in techniques of writing poetry in-class analysis of student poems and the subsequent revision, reevaluation, and marketing of student work. CREATIVE WRITING.

ENG 336 Creative Nonfiction Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 291.
Taught: Variable, check with department
Students hone craft and voice while writing and workingshopping creative nonfiction. CREATIVE WRITING.

ENG 338 Writing for Social Change (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 291, ENG 151, or equivalent.
Taught: Fall only
Study and practice in activist writings, with particular attention paid to the writings of social justice movements. May involve direct contact work in a local community outside the university. WRITING STUDIES.

ENG 340 Business Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 291 or equivalent.
Taught: Fall and spring
Practical experience in business writing proposals, resumes, letters, reports, and memoranda. For students majoring in business as well as other students who anticipate professional careers involving on-the-job writing tasks. WRITING STUDIES.

ENG 345 Legal Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 291 or equivalent.
Taught: Variable, check with department
The writing of legal arguments; logical reasoning, clarity, conciseness, grammar, punctuation. For those considering or pursuing careers in law or other professions involving the writing of contracts and legal documents. Counts toward literature and writing option for the English major. WRITING STUDIES.

ENG 347 Technical Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 291 or equivalent.
Taught: Fall and spring
Principles and techniques of technical writing, including proposals, lab reports, job applications, graphics, and feasibility studies. Recommended for students in sciences, public administration, social services, industry, and health and computer fields. Prepares students for cooperative writing internships in industries or agencies. WRITING STUDIES.

ENG 348 Professional Editing in the Workplace (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 291 or equivalent with C or better.
Taught: Variable, check with department
Theoretical and practical grounding in professional workplace editing as an evolving profession. Design, edit, and manage complex workplace documents using both manual means and industry-standard software. WRITING STUDIES.

ENG 349 Web Writing for the Professions (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 291 or equivalent.
Taught: Fall only
Theoretical and practical grounding in analyzing, planning, and implementing web-based publications, including integration of textualvisual materials and use of industry standard Internet publishing tools. Students will learn to assess client needs and test site usability by creating several web pages, including a multi-layer website for a real-world client. WRITING STUDIES.

ENG 350 Critical Theory (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 250 or permission of instructor.
Taught: Spring only
Introduction to theories of critical interpretation in literary studies. Various approaches to be introduced and applied to literary texts.

ENG 351 Rhetorical Theories & Writing Practices (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 204 and ENG 250.
Taught: Fall only
Introduction to rhetorical theory and the ways that rhetorical theory informs the practice of writing.

ENG 352 Literature of the 19th Century (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 151H, ENG 291 or equivalent.
Taught: Variable, check with department
Study of period literature and cultures; techniques, structures, subgenres, and themes. May be repeated when topics vary. GENRES.

ENG 353 American Folklore (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 151H, ENG 291 or equivalent.
Taught: Spring only
Study of oral, customary, and material genres of folklore in different American folk groups.

ENG 358 Writing in Creative Genres (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 291 or equivalent.
Taught: Variable, check with department
Principles and techniques of creative writing in a specialized genre such as children’s creative non-fiction, fantasy, dramatic, etc. In-class analysis of student work with subsequent revisions. May be repeated for credit when genre changes. CREATIVE WRITING.

ENG 359 Writing in Workplace Genres (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 291 or equivalent.
Taught: Variable, check with department
Principles and techniques of workplace writing in a specialized genre, such as business report writing, manual writing, grant writing, proposal writing, etc. In-class analysis of student work with subsequent revisions. Repeatable for 3 credit hours when genre changes. WRITING STUDIES.

ENG 360 Studies in Dramatic Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 151H, ENG 291 or equivalent.
Taught: Variable, check with department
Study of various periods and kinds of dramatic literature. May be repeated when topics vary.

ENG 366 Studies in Literary Genres (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 151H, ENG 291 or equivalent.
Taught: Variable, check with department
Study of one or more genres from various periods and cultures; techniques, structures, subgenres, and themes. May be repeated as topics vary.

ENG 367 The Graphic Novel (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 semester hours of literature.
Taught: Variable, check with department
This course critically examines the genre of the graphic novel, paying special attention to narrative techniques. GENRES.

ENG 371 Traditional Grammar (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or ENG 151H with a grade of C or better.
Taught: Fall and spring
This course provides an understanding of sentence parts and patterns, punctuation, usage, and sensitivity to style. Such instruction in
traditional grammar can help students (a) write correctly and effectively, (b) apply logical thinking, (c) become wise analysts of texts, and (d) teach others conventional uses of language. WRITING STUDIES.

ENG 380 Studies in Literature and Other Arts (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 151H, ENG 291 or equivalent.
Taught: Spring only-odd yrs
Literary works compared with musical compositions, with paintings, or with both music and painting. May be repeated for credit when topics vary. GENRES.

ENG 381 Introduction to Linguistics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of English; junior standing.
Taught: Fall only-odd yrs
Methods of analyzing language. Satisfies the linguistics requirement for English majors seeking secondary certification.

ENG 382 History of the English Language (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of English; junior standing.
Taught: Fall only-even yrs
Development of English from Indo-European to the present; internal and external influences resulting in change. Satisfies the linguistics requirement for those seeking secondary certification in English. GENRES.

ENG 384 Modern Poetry (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 151H, ENG 291 or equivalent.
Taught: Variable, check with department
Prosodic theory in interpretation of poetic texts. GENRES.

ENG 385 Teaching of English I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisite OR Co-requisite: Admission to Teacher Education Program or valid secondary teaching certificate; EDU 311.
Taught: Fall only
Combination of theoretical and practical problems in the teaching of writing and grammar. Required of all students majoring in English who seek secondary certification.

ENG 386 Children’s Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 semester hours of literature.
Taught: Fall and spring
For students seeking provisional certification in elementary education.

ENG 387 Teaching of English II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to teacher educational program or valid secondary teaching certificate.
Taught: Fall only
Combination of theoretical and practical problems in the teaching of literature. Required of those seeking secondary certification in English.

ENG 394 Topics (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Explores topic not included in regular English curriculum. May repeat for credit if topics vary.

ENG 399 Independent Study (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Directed study.

ENG 401 Chaucer (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Study of Geoffrey Chaucer’s poetry, including the Canterbury Tales and possibly Troilus and Criseyde, the shorter poems, and/or postmedieval transmissions of Chaucer’s works. TRADITIONS (PRE-1800, PRE-1900).

ENG 402 Middle English Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 semester hours of literature.
Taught: Variable, check with department
Comparative study of the rhetoric, contexts, and uses of pre-1800, pre-1900 exploration and travel narratives, particularly those depicting cross-cultural encounters and non-Western landscapes. TRADITIONS.

ENG 403 Old English (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Language and literature of Anglo Saxon England. TRADITIONS (PRE-1800, PRE-1900).

ENG 404 Arthurian Legend (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Advanced study of medieval origins of the legend of King Arthur. May also consider post-medieval transmission of the Arthurian tradition in literary texts, film, etc. TRADITIONS (PRE-1800, PRE-1900).

ENG 411 Elizabethan Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
The period of Marlowe, Sidney, Spenser, and Shakespeare. TRADITIONS (PRE-1800, PRE-1900).

ENG 412 Seventeenth Century Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Dramatic works written in Elizabethan and Jacobean England. TRADITIONS (PRE-1800, PRE-1900).

ENG 414 English Renaissance Drama (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Shakespeare’s predecessors and contemporaries. Pre-1800 British Literature credit. GENRES.

ENG 418 Gender and Early Modern Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Explores constructions of femininity and masculinity in literature of the early modern period (Renaissance and/or 17th and 18th centuries). IDENTITIES.

ENG 420 Pre 1800 Exploration/Travel Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 semester hours of literature.
Taught: Variable, check with department
Comparative study of the rhetoric, contexts, and uses of pre-1800, pre-1900 exploration and travel narratives, particularly those depicting cross-cultural encounters and non-Western landscapes. TRADITIONS.

ENG 421 Restoration and Eighteenth Century Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Significant works of literature written between 1660 and 1798; satire, comedy of manners, novel, and poetry in the context of social backgrounds. TRADITIONS (PRE-1800, PRE-1900).

ENG 422 Studies in Eighteenth Century Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Ideas and themes in several works, or in a single major writer, or in a circle of writers; content varies. May be repeated for credit when content varies. TRADITIONS (PRE-1800, PRE-1900).

ENG 425 Eighteenth Century British Novel (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Critical approaches to selected novels by British authors ranging from Daniel Defoe and Samuel
Richardson to Frances Burney and Jane Austen; novelistic modes such as picaresque, epistolary, gothic, and novel of manners. TRADITIONS (PRE-1800, PRE-1900).

ENG 430 Advanced Poetry Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 231.
Taught: Variable, check with department
Intensive advanced practice in poetry writing, concentrating on form and poetics. CREATIVE WRITING.

ENG 431 Screenwriting (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 231 or equivalent.
Taught: Variable, check with department
Analysis of professional and student screenplays completion of a script for feature length film, episode of a contemporary TV show, adaptation of a novel or short story, docudrama, or documentary film. CREATIVE WRITING.

ENG 432 Novel Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 231.
Taught: Fall only
Explores the particular requirements of the novel form. Examines the creation of effective characterization, setting, themes and plots. Demands substantial reading, writing, and outside research. CREATIVE WRITING.

ENG 433 Novel Writing II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 432.
Taught: Spring only-odd yrs
Continuation of Novel Writing I focusing on issues specific to writing the middle and ending of a novel. CREATIVE WRITING.

ENG 434 Studies in British Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Various regional literatures, e.g., those of Kentucky and southern Appalachia. May be repeated for credit when topics vary. IDENTITIES.

ENG 435 Victorian Poetry (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 semester hours of literature.
Taught: Fall only
An exploration of the major works of poetry in the British Victorian period. GENRES.

ENG 436 The Gothic in Literature and the Arts (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Survey of British narrative fantasy from the Middle Ages though the 21st century. GENRES.

ENG 451 British Romanticism (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 semester hours of literature.
Taught: Variable, check with department
A study of the major works and theories from the age of Blake, Wordsworth, and Byron. TRADITIONS (PRE-1900).

ENG 452 Victorian Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Poetry, fiction, prose, and myth in the age of Tennyson, Hardy, Carlyle, and Eliot. TRADITIONS (PRE-1900).

ENG 453 Victorian Poetry (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 semester hours of literature.
Taught: Variable, check with department
An analysis of the major works of poetry in the British Victorian period. GENRES.

ENG 454 American Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Analysis of professional and student screenplays completion of a script for feature length film, episode of a contemporary TV show, adaptation of a novel or short story, docudrama, or documentary film. CREATIVE WRITING.

ENG 455 British Narrative Fantasy (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Survey of British narrative fantasy from the Middle Ages through the 21st century. GENRES.

ENG 456 Twentieth Century British Novel (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Survey of British narrative fantasy from the Middle Ages through the 21st century. GENRES.

ENG 457 Studies in Regional American Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Various regional literatures, e.g., those of Kentucky and southern Appalachia. May be repeated for credit when topics vary. IDENTITIES.

ENG 459 Nineteenth Century American Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Major authors of 19th century American fiction, essays, and poetry. May be repeated once for credit when topics vary. TRADITIONS (PRE-1900).

ENG 460 Modern American Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Trends in form and content in 20th century American writing. May be repeated once for credit when topics vary. TRADITIONS (POST-1900).

ENG 461 Nineteenth Century American Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Major authors of 19th century American fiction, essays, and poetry. May be repeated once for credit when topics vary. TRADITIONS (PRE-1900).

ENG 462 Modern American Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Trends in form and content in 20th century American writing. May be repeated once for credit when topics vary. TRADITIONS (POST-1900).

ENG 463 Studies in Regional American Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Various regional literatures, e.g., those of Kentucky and southern Appalachia. May be repeated for credit when topics vary. IDENTITIES.

ENG 464 Studies in American Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Works reflecting a common theme, genre, era, or literary movement. May be repeated for credit when topics vary. TRADITIONS.

ENG 465 Studies in African-American Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 semester hours of literature.
Taught: Variable, check with department
Various periods and kinds of African American literature: issues of ethnicity/race and sex/gender; cultural, political, economic, and social issues. May be repeated when topics vary. IDENTITIES.

ENG 466 Gender in 19th-Century American Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Investigates ways in which gender informs literature in 19th century American society and how literature reflects gender. IDENTITIES.

ENG 467 Twentieth Century British Novel (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Aesthetic and analytical approach to major British novels of the 20th century. GENRES.

ENG 468 Gender in 19th-Century American Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Investigates ways in which gender informs literature in 19th century American society and how literature reflects gender. IDENTITIES.
ENG 473 Studies in Contemporary British Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Post-1950 British Literature selected by authors, reflecting aesthetic, social, political, intellectual, and economic trends. TRADITIONS (POST-1900).

ENG 474 Studies in Postmodern Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Twentieth-century literature written primarily after WWII and representing a conscious attempt to move beyond the modes and themes of the High Modernists. May be repeated once for credit. TRADITIONS (POST-1900).

ENG 475 Post-Colonial Literature and Theory (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of literature.
Taught: Variable, check with department
Development of major themes, techniques, and theories of post-colonial writing, including issues of appropriation, literary hybridity, cultural hegemony, and Otherness. IDENTITIES.

ENG 477 Irish Literary Renaissance (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of literature.
Taught: Variable, check with department
Works associated with the Irish Literary Renaissance (1880-1939), a movement dedicated to creating a literature based on Irish history, legend, and folklore. Writers may include Yeats, Joyce, Synge, Gregory, O’Casey. IDENTITIES.

ENG 494 Senior Seminar (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of literature.
Taught: Variable, check with department
Intensive study of a specific topic or problem.

ENG 496 Internship: Various (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: ENG 291, ENG 151, or equivalent, with department approval.
Taught: Variable, check with department
Duties associated with on- or off-campus, paid or unpaid, employment in business, government, education, or the nonprofit sector, which involve substantial work in writing and/or editing projects, under the supervision of a faculty member in the English Department. May be repeated to a total of 6 semester hours.

ENG 497 Projects: Writing (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: written consent of a full-time member of the Faculty of English.
Taught: Variable, check with department
Independent study for advanced students undertaking projects in creative, expository, or journalistic writing. May be taken twice for a total of 6 semester hours.

ENG 499 Independent Study of British Literature (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of literature and consent of instructor.
Taught: Variable, check with department
Open to outstanding students.

ENG 500 Poetry (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of literature at the undergraduate level or graduate standing.
Taught: Variable, check with department
Advanced study of poetry. May be repeated for credit when topics vary. GENRES.

ENG 501 Drama (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of literature at the undergraduate level or graduate standing.
Taught: Variable, check with department
Advanced study of dramatic literature. May be repeated for credit when topics vary. GENRES.

ENG 505 Medieval Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of literature at the undergraduate level or graduate standing.
Taught: Variable, check with department
Advanced study of literature from the Medieval period. May be repeated once for credit when topics vary. TRADITIONS (PRE-1800, PRE-1900)

ENG 515 Readings in Western Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of literature at the undergraduate level or graduate standing.
Taught: Variable, check with department
Advanced study of Restoration and 18th-century literature. May be repeated once for credit when topics vary. TRADITIONS (PRE-1800, PRE-1900)

ENG 525 Restoration and 18th-Century Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of literature at the undergraduate level or graduate standing.
Taught: Variable, check with department
Advanced study of Restoration and 18th-century literature. May be repeated once for credit when topics vary. TRADITIONS (PRE-1800, PRE-1900)

ENG 530 Readings in the English Language (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 8 semester hours of literature at the undergraduate level.
Taught: Fell only
Topics about the language and its use: specialized readerships, applications, and theories. May be repeated for credit when topics vary.

ENG 531 English Grammar for Teachers of ESOL (2 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 8 semester units of literature and consent of instructor.
Taught: Variable, check with department
Overview of English grammar from pedagogical point of view. Does not count toward English major.

ENG 542 Teaching and Practice/Creative Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: graduate standing or consent of instructor.
Taught: Variable, check with department
Activities, materials, objectives, theory, practice, and curricula for teaching writing at the middle and secondary school levels. Does not satisfy methods course requirements for any Kentucky teaching certificate program.

ENG 544 Research/Methods in Professional Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Graduate standing or consent of instructor.
Taught: Variable, check with department
Introduction to key theories and research methods in professional writing. WRITING STUDIES.

ENG 546 Grant Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Theory and practice of preparing and analyzing grant applications. Special focus on the grant process in academic settings. WRITING STUDIES. Open to graduate students and, with permission of instructor, advanced undergraduate students.

ENG 550 Playwriting Workshop (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Intensive exploration of playwriting theory, approach, creativity, and style. Focus on developing the individual playwright’s method
and practice through creation of drama, research, and engagement with the theater community.

**ENG 552 Screenwriting Workshop (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

*Advanced study of film production and screenwriting. Focus on style and form; camera, geography, staging, balance, timing, and rhythm; business analysis of films and screenplays; and role of the screenwriter and other personnel.*

**ENG 556 Composition Theories (1-3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Six semester hours of literature at the undergraduate level or graduate standing. Taught: Variable, check with department*

*Advanced study in composition/rhetoric. May be repeated for credit when topics vary.*

**ENG 560 American Literature Before 1865 (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Six semester of literature at the undergraduate level or graduate standing. Taught: Variable, check with department*

*Advanced study of American literature written before 1865. May be repeated once for credit when topics vary. TRADITIONS.*

**ENG 565 American Literature After 1865 (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Six semesters of literature at the undergraduate level or graduate standing. Taught: Variable, check with department*

*Advanced study of American literature written after 1865. May be repeated once for credit when topics vary. TRADITIONS.*

**ENG 575 20th Century British Literature (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Six semesters of literature at the undergraduate level or graduate standing. Taught: Variable, check with department*

*Advanced study of one or more major literary authors. May be repeated for credit when topics vary. TRADITIONS.*

**ENG 580 Studies in Literature (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Six semesters of literature at the undergraduate level or graduate standing. Taught: Variable, check with department*

*Advanced study of special topics in literary studies. May be repeated once for credit when topics vary.*

**ENG 581 Major Authors (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Six semesters of literature at the undergraduate level or graduate standing. Taught: Variable, check with department*

*Advanced study of one or more major literary authors. May be repeated for credit when topics vary. TRADITIONS.*

**ENG 582 Special Topics in Literature (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Six semesters of literature at the undergraduate level or graduate standing. Taught: Variable, check with department*

*Advanced study of special topics in literary studies. May be repeated once for credit when topics vary.*

**ENG 584 Literary Publishing and Editing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Six semesters of literature at the undergraduate level or graduate standing. Taught: Variable, check with department*

*Current trends and challenges in publishing explored through research and practical editing of literary journals and other projects.*

**English Developmental Courses (ENGD)**

**ENGD 080 Writing Laboratory (1 credit)**

*Hours: 0 classroom + 1 lab/studio*

*Co-requisites: ENG 080. Taught: Fall and spring*

*Supplementary writing instruction in small-group setting. Offered on a pass/fail basis. Not applicable toward graduation.*

**ENGI 080 Writing Laboratory for International Students (1 credit)**

*Hours: 0 classroom + 1 lab/studio*

*Prerequisites: ENGI 080. Taught: Fall and spring*

*Supplementary writing instruction in small-group setting. Offered on a pass/fail basis. Not applicable toward graduation.*

**ENGD 090 Writing Workshop (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Co-requisites: ENG 080. Taught: Fall and spring*

*Supplementary writing instruction in small-group setting. Offered on a pass/fail basis. Not applicable toward graduation.*

**ENGD 099 Writing Workshop for International Students (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Co-requisites: ENGI 080. Taught: Fall and spring*

*Practice in a variety of writing forms, selecting topics, working through the writing process. For international students needing additional preparation for ENG 101.*

**ENTP 150 Overview of Accounting (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall and spring*

*Introduction to financial information generated by typical business organizations, with special emphasis on the use and interpretation of this information in managerial and financial decision-making processes by entrepreneurs. May not be substituted for ACC 200.*

**ENTP 201 Principles of Entrepreneurship (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall and spring*

*This course is designed to provide students with an overview of the entrepreneurial thought processes of creativity, innovation, and critical thinking as well as the business planning process. It provides students with a framework in which to conduct a feasibility analysis that will help prepare them for a potential entrepreneurial venture. Not open to entrepreneurship majors or minors.*

**ENTP 305 Introduction to Entrepreneurship (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Junior standing Taught: Fall and spring*

*This course is designed to provide students with an overview of the entrepreneurial thought processes of creativity, innovation, and critical thinking as well as the business planning process. It provides students with a framework in which to conduct a feasibility analysis that will help prepare them for a potential entrepreneurial venture. Not open to entrepreneurship majors or minors.*

**ENTP 310 Enterprise Creation (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ENTP 201 and junior standing Taught: Fall and spring*

*The course focuses on the planning and creation of new business ventures. It provides students an overview of the business planning process and a framework in which to conduct a feasibility analysis that will help prepare them for their own future venture.*
ENTP 320 Social Entrepreneurship (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENTP 201.
Taught: Fall only
Introduce students to the concepts, practices, and challenges of social entrepreneurship in the U.S. and around the world. Topics include the relationship between traditional entrepreneurship and social entrepreneurship; the impact of social entrepreneurs on society; and the skills needed to be a successful social entrepreneur.

ENTP 375 Marketing Strategies for Entrepreneurial Businesses (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENTP 201.
Taught: Fall and spring
A strategic marketing process approach will be illustrated emphasizing the design of entrepreneurial marketing plans; the innovation and new product or service process; implementation of product, price, place and promotion goals; and, methods of evaluation and control.

ENTP 376 New Venture Financing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENTP 150 or ACC 200 and ACC 201, ENTP 201
Taught: Fall only
Many new ventures and innovation fail due to inadequate funding. Major sources of funding for new ventures are reviewed and evaluated in this course, including: venture capital, informal investors, banks, investment banks, suppliers, buyers and the government. Some of the topics for this course include valuation, “guerilla financing,” joint ventures, strategic alliances, private placements, IPCs and management buyouts.

ENTP 378 Emerging Enterprise Law (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENTP 201
Taught: Spring only
This course involves the study of legal issues surrounding emerging enterprises, including, new venture formation, choice of legal entity, financing, siting and leases, intellectual property, debtor-creditor relations, contracts and employment law.

ENTP 379 Technology and Innovation Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENTP 201
Taught: Variable, check with department
This course is designed to explore the concepts of change, innovation, and corporate venturing. Issues associated with entrepreneurial behavior and the development and implementation of programs to encourage entrepreneurship (creating value through innovation in midsize and large firms are explored.

ENTP 394 Topics: Entrepreneurship (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENTP 201 and junior standing.
Taught: Variable, check with department
Specialized topics of student and business community interest. Topics for current offering listed in Schedule of Classes. With department approval may be repeated for elective credit when topics change.

ENTP 396 Entrepreneurial Internship (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENTP 201.
Taught: Fall and spring
Students will intern at a nascent or early stage business venture that will provide the student an opportunity to learn to apply entrepreneurial problem solving skills and theoretical knowledge obtained through coursework to actual business situations and problems. The student should plan on spending a minimum of 10 hours per week for 10 weeks at the internship.

ENTP 433 New Venture Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENTP 201 and certification of major in business or declared minor in ENTP.
Taught: Spring only
As an integrative course in management; this class emphasizes managing growing companies in an increasingly professional manner, while maintaining a spirit of entrepreneurship. Topics will include strategic and operational planning, financial planning and measuring and controlling performance; managing innovation, marketing the entrepreneurial organization, managing human resources in rapidly growing firms, and exit strategies.

ENTP 497 Writing the Business Plan (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENTP 150 or ACC 200 and ACC 201, ENTP 201, ENTP 375 and ENTP 376; senior standing and certification of major in business or declared minor in ENTP.
Taught: Fall and spring
Students will study the basic components and varied audiences for the business plan. Each student will write a business plan and will be required to present the plan to a panel of business leaders.

ENTP 499 Independent Study (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENTP 201 and certification of major in business or declared minor in ENTP.
Taught: Variable, check with department
Students pursue a topic or project of interest to them. Meeting times arranged with instructor.

Environmental Science Courses (ENV)

ENV 110 Introduction to Environmental Science and Issues - NS (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
A non-laboratory introduction to the basic tenets of environmental science and issues including: the biological and physical components of ecosystems; human impacts on the functionality of ecosystems; and the economic, political, and legal aspects of environmental decision making. A requirement for entry into the environmental science program.

General education credit: Natural Science

ENV 115 Orientation to Environmental Science and Issues (1 credit)
Hours: 0 classroom + 3 lab/studio
Taught: Fall and spring
An introduction to environmental careers and graduate options. Activities will include visits to local businesses, corporations, agencies, and organizations specializing in environmental work.

ENV 220 Protecting Water Resources - NS (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: A minimum score of 24 on ACT.
Taught: Spring only-even yrs
A non-laboratory introduction to the basic tenets of Environmental Science and Issues including: the biological and physical components of ecosystems, human impacts on the functionality of ecosystems, and the economic, political and legal aspects of environmental decision making.

General education credit: Natural Science

ENV 220L Protecting Water Resources Laboratory - SL (1 credit)
Hours: 0 classroom + 3 lab/studio
Co-requisites: ENV 220.
Taught: Fall only
A laboratory course to accompany ENV 220. Applied exercises in water quality assessment, land use, and storm-water management.

General education credit: Natural Science
ENV 291W Advanced Writing in Environmental Science - WC (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or ENG 151, ENV 110, and BIO 151.
Taught: Fall and spring
Introduction to scientific literature, experimental design, research, and proposal development.
Advanced techniques in information search and retrieval, scientific writing, and effective presentation.
General education credit: Written Communication II

ENV 294 Topics in Environmental Science (1-5 credits)
Hours: 1-5 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Intensive study of specialized subject matter in environmental science. May be repeated for credit when topic varies.

ENV 350 Environmental Toxicology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 151 and CHE 121.
Taught: Variable, check with department
A non-laboratory course designed for students in biology, chemistry or environmental science who have completed their first-year biology and chemistry courses. The course will cover principles of toxicology and environmental genetics, the movement of toxic chemicals in the environment, and their degradation, biotransformation, or accumulation over time. Case studies will be used to examine differences across species and across habitats from the tundra to the tropics.

ENV 394 Topics: Environmental Science (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Junior or senior standing in environmental science.
Taught: Variable, check with department
In depth study of specialized subject matter in environmental science. May be repeated for credit once when topic varies.

ENV 395 Study Abroad in Environmental Science (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
An opportunity for students to engage in one or more departmentally-approved courses abroad; topic listed in schedule of classes when course is offered. May be repeated for credit when topics vary.

ENV 396 Internship: Environmental Science (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Fall, spring, and summer
Experiential learning at institutions, universities, or businesses specializing in Environmental work.
Course may be repeated for new internship project; up to 6 semester hours may be earned in this course. Open only to students majoring in Environmental science or minoring in Environmental studies.

ENV 408L Ecology of the City Laboratory (0 credits)
Hours: 0 classroom + 3 lab/studio
Co-requisites: ENV 408.
Taught: Spring only
Laboratory to accompany ENV 408.

ENV 408 Ecology of the City (4 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 304 and GEO 418.
Co-requisites: ENV 408L.
Taught: Spring only
Using ecological theory to understand the links between the structure and function of cities. Topics covered include socio-ecological frameworks, solutions to modern environmental concerns as they relate to urban areas, the role of interdisciplinary research in urban ecology, human-environment interactions, and creating sustainable cities.

ENV 492 Directed Research: Environmental Science (1-3 credits)
Hours: 0 classroom + 3-9 lab/studio
Prerequisites: ENV 291W and consent of instructor.
Taught: Fall, spring, and summer
Development and completion of a research project chosen in conjunction with instructor and approval of environmental science director. Final project report is required. Up to 6 semester hours may be earned in this course. For students majoring in environmental science.

ENV 494 Seminar: Environmental Science (1 credit)
Hours: 0 classroom + 3 lab/studio
Prerequisites: ENV 110 or BIO 123, and junior standing.
Taught: Spring only
Discussion and analysis of current environmental problems. For junior and senior students majoring in environmental science or minoring in environmental studies.

ENV 578 Environmental Issues for Educators (3 credits)
Hours: 1 classroom + 4 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Information and application of environmental issues for classroom use. Interrelationship of local issues and global issues. Required field trips.

Finance Courses (FIN)

FIN 205 Personal Financial Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Fall only
Practical and realistic methods to manage the basic concepts of personal finances effectively; covers the basics related to managing your personnel assets, credit, insurance, investments, retirement and estate planning.

FIN 305 Principles of Finance (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ACC 200 and ACC 201, STA 205 or STA 212, and junior standing.
Taught: Fall, spring, and summer
Basic concepts in finance including security markets, interest rates, taxes, risk analysis, time value of money, security valuation, short term financial planning, capital budgeting, and capital structure.

FIN 315 Financial Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in FIN 305 and junior standing.
Taught: Fall, spring, and summer
Financial management concepts relating to dividend policy, capital structure theory, working capital management, common stock and bond issuance, hybrid financing, mergers, and acquisitions.

FIN 345 Investment and Security Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in FIN 305 and junior standing.
Taught: Fall, spring, and summer
Structure and regulation of security markets, capital market theory, portfolio theory, analysis of securities and opportunities, evaluation of portfolio goals, sources of investment information, and introduction to derivatives.
FIN 355 Principles of Risk Management and Insurance (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in FIN 305 and junior standing.
Taught: Fall, spring, and summer
Fundamental principles of risk and insurance; applications to risk situations and pension and group insurance.

FIN 365 Financial Markets and Institutions (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in FIN 305 and junior standing.
Taught: Fall only
Advanced coverage of financial markets and institutions and their role in the history of the US financial system. Coverage includes a discussion of financial market history, interest rate theory, financial and currency derivatives, international implications for financial markets and institutions and current topics.

FIN 385 Financial Planning Process and Estate Planning (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in FIN 305 and junior standing.
Taught: Fall only
Theoretical and practical approach to estate planning; estate and gift taxes, wills, trusts, and estate planning techniques and application of these techniques in overall financial planning.

FIN 394 Topics: Finance (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in FIN 315, FIN 345 and junior standing.
Taught: Fall only
Continuation of the material covered in FIN 315 and FIN 345. The students will gain practical experience in portfolio management, including asset allocation, risk management, securities analysis and portfolio monitoring through management of the Haile Student Investment Fund.

FIN 415 International Finance (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: FIN 305 with a grade of C or better, certified major in any business program.
Taught: Spring only
Financial decision making process in a multinational environment, effects of devaluation expectations, foreign exchange, investment controls; case study materials related to actual decisions by multinational firms.

FIN 425 Financial modeling and valuation (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in FIN 315 and FIN 345.
Taught: Fall only
Financial modeling and valuation focusing on major financial theories and practical applications; building financial models in Excel and applying them to various corporate valuation models. Open only to students certified as majoring in business or by consent of instructor.

FIN 435 Case Studies in Corporate Finance (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: FIN 315, FIN 345 and ACC 308 with a grade of C or better, certified major in finance.
Taught: Fall and spring
Analysis of finance problems through use of case studies; oral and written presentations of case solutions. Recommended to be taken during the last 18 semester hours of business coursework.

FIN 445 Retirement Planning and Employee Benefits (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: FIN 305 with a grade of C or better, certified major in any business program.
Taught: Spring only
Concepts of retirement planning and employee benefits and the application of these concepts to overall financial planning for individual and businesses.

FIN 450 Advanced Investment Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: FIN 315 and FIN 345 with a grade of B or better and permission of the instructor. May be repeated for a maximum of 6 semester hours if topics differ.

FIN 499 Independent Student in Finance (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: FIN 315, FIN 345 and ACC 308 with a grade of C or better, certified major in any business program, and consent of instructor.
Taught: Variable, check with department
Student investigation of a topic or completion of a project. Topics, meeting times, and outcomes arranged with instructor.

Financial Literacy Courses (FLC)

FLC 101 Pathways to Financial Success (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: For students who have completed FIN 315, FIN 345 and FIN 346.
Taught: Fall, spring, and summer
Knowledge and skills to make sound personal financial decisions that promote financial success during college and beyond. Emphasis on decisions related to navigating college costs; earning, spending, saving; borrowing; and protecting.

French Courses (FRE)

FRE 101 Elementary French I - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Fundamentals; introduction to French and Francophone cultures; development of skills in conversation, pronunciation, grammar, reading, and writing.

FRE 102 Elementary French II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: For students who have completed FRE 101 or equivalent.
Taught: Fall and spring
Continuation of FRE 101.

FRE 201 Intermediate French I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: For students who have completed FRE 102 or equivalent.
Taught: Fall and spring
Review and extension of basic language skills learned in FRE 101 and FRE 102; reading and discussion of cultural, linguistic, and literary subjects.

FRE 202 Intermediate French II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: For students who have completed FRE 201 or equivalent.
Taught: Fall and spring
Continuation of gramam review and enhancement of language skills begun in FRE 201; consideration of cultural and literary subjects.
FRE 304 French Composition and Conversation (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: FRE 202 or equivalent.
Taught: Variable, check with department
Advanced practice in writing French compositions and in oral conversation skills.

FRE 310 French Culture and Society Today (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: FRE 202 or equivalent or consent of instructor.
Taught: Variable, check with department
Basic aspects of contemporary French culture and society; reading and discussion of articles from leading French magazines, newspapers, and representative texts; comparison of French and American behavior and attitudes.

FRE 311 French Cultural History (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: FRE 202 or equivalent.
Taught: Variable, check with department
Eras, institutions, and issues in the history of France; readings primarily in French.

FRE 320 Survey of French Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: FRE 202 or equivalent.
Taught: Variable, check with department
Overview of major authors and texts from Old French to the 20th century.

FRE 322 French Drama (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: FRE 202 or equivalent.
Taught: Variable, check with department
Study of major authors and texts in the history of French theater, including representative 20th century playwrights; readings in French. May be repeated when topics vary.

FRE 323 French Prose Fiction (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: FRE 202 or equivalent.
Taught: Variable, check with department
Study of representative masters of the French novel and short fiction from the 18th century to the present; readings in French. May be repeated when topics vary.

FRE 330 Studies in French Language Cinema (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: FRE 202 or equivalent.
Taught: Variable, check with department
Survey of films produced in the French language. Emphasizes both the aesthetic aspects of the films as well as their historical, political, social and cultural content. May be repeated as topics vary.

FRE 340 Business French (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: FRE 202 or equivalent.
Taught: Variable, check with department
A study of language for broad commercial purposes; cultural awareness in both social and professional situations; historic and contemporary views of government, labor, media, and industrial organization in Francophone countries; business correspondence; Franco-American relations.

FRE 350 Methods of Teaching in French (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of French at the 300 level or above.
Taught: Spring only-even yrs
Theoretical and practical considerations of teaching French in secondary schools. Required of all students seeking teaching certification in French.

FRE 401 French Phonetics and Pronunciation (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of French on the 300 level or above or consent of instructor.
Taught: Variable, check with department
Study of French sound system, how sounds are produced, which ones are used in French, and in what contexts they occur. Satisfies the linguistics requirement for French Education majors.

FRE 402 Advanced French Grammar and Syntax (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of French on the 300 level or above or consent of instructor.
Taught: Variable, check with department
Study of French grammar through analysis of key linguistic structures and applied practice. Analysis of word formation, sentence structure, and semantics. Satisfies the linguistics requirement for French Education majors.

FRE 480 Studies in French Culture (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of French at the 300 level or above or consent of instructor.
Taught: Variable, check with department
Topics in culture and language of French speaking countries. May be repeated for credit as topics vary.

FRE 481 Studies in French Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of French at the 300 level or above or consent of instructor.
Taught: Variable, check with department
Topics in literature, literary history, and literary theory. May be repeated for credit when topics vary.

FRE 499 Independent Study: French (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: consent of instructor.
Taught: Variable, check with department
Readings in language and literature and culture. May be repeated for credit when topics vary.

Geography Courses (GEO)

GEO 100 Global Viewpoints on Geography and the Human Landscape - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
Acquaints students with the key tools, themes, and perspectives by which geographers describe and analyze the global landscape, in its present condition as well as its transformation from past circumstances and its continuing transformation into the future.

GEO 101 World Regional Geography (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
The world’s regions; settlements, resource use, culture groups, and political patterns.

GEO 108 Physical Geography - NS (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Acquaints students with the integration of key physical, chemical, and biological processes that produce the climate, soil, vegetation, and landform patterns on the Earth’s surface.

GEO 301 Urban Geography (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-odd yrs
Cities from inter urban and intra urban perspectives; evolution of cities and urban areas; their internal structure and the dilemmas they face.

GEO 302 Cultural Geography (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-odd yrs
Impact of various cultures on landscape; distribution of culture traits; development of culture areas.
GEO 303 Geographic Patterns of Economic Development (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-odd years
Examines contemporary global economic patterns and trends, emphasizing the geographical underpinnings of the world economy.

GEO 304 Political Geography and Geopolitics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Taught: Fall only-even years
Examines the role of geography in the political process at both the domestic and international scales. Addresses the ways in which nation-states structure and organize territories.

GEO 306 Environmental Resource Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
Spatial issues of resources management; water and air pollution, solid wastes, energy, land use planning, wilderness preservation, and population pressures; interaction of ecosystems.

GEO 308 Dynamics of Weather and Climate (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
Scientific bases on which weather and climate function; general circulation systems of the atmosphere; climate regions; natural and anthropogenic climate change.

GEO 309 Historical Geography of the U.S. (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-odd yrs
Spread of settlement, growth of urbanization, and development of economic and culture regions; past and present distribution of religious groups, European ethnic groups, and Afro-Americans. Same as HIS 426.

GEO 310 Geography of Population (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-odd years
Spatial distribution of world population; regional variations of growth rates, standards of living, urban/rural densities, migration patterns, and environmental impact of populations.

GEO 314 Maps and Map Interpretation (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Taught: Fall only
Map reading and interpretation skills; overview of map sources; interpretation of aerial photographs and remote sensing data; Geographic Information Systems.

GEO 330 Geography of Religion (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Distribution of religions with a strong emphasis on the areal spread of various religions; impact of religion on landscape and on the environmental settings of several religions; changing religious patterns in the United States.

GEO 335 Geography Through Film, Art and Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-even yrs
Uses film, art and literature to examine how human communities and cultures have conceptualized their relationship to the natural world and negotiated their places in the global system.

GEO 340 Sustainable Food Systems (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-even years
Production processes and environmental impacts of agriculture, food manufacturing, food retailing in U.S. Land ownership patterns, subsistence food production, and cash crop production in developing world. Sustainable alternatives in U.S. and developing world.

GEO 349 Research Seminar in Geography (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Taught: Fall only-even years
Reviews key concerns of geography as discipline. Guides students in research project culminating in high quality research paper and professional quality oral presentation.

GEO 389 Topics: Geography (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Study of specialized topics in geography not covered through regular curriculum. Subfields will vary according to the interest of the instructor and will be listed in the on-line schedule of classes. May be repeated as topics change.

GEO 394 Topics: Geography (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Study of specialized topics in geography not covered through regular curriculum. Subfields will vary according to the interest of the instructor and will be listed in the on-line schedule of classes. May be repeated as topics change.

GEO 402 Geography of Europe (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-even years
Physical, cultural, economic, and political patterns of Europe (excluding the former Soviet Union); continent-wide patterns of various characteristics as well as individual countries are considered.

GEO 403 Geography of Africa (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-even yrs
Physical, cultural, economic, and political patterns of Africa, primarily south of the Sahara.

GEO 406 Geography of Latin America (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-odd years
Middle and South America’s spatial characteristics, physical setting, social characteristics and economic structure.

GEO 409 Geography of North America (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-odd yrs
The continent’s areal differences in physiography, climate, culture, and economic systems; synthesis of various spatial characteristics to form distinct regions.

GEO 410 Geography of East Asia (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-odd years
Physical and social geography of major regions; transformation of pre-colonial economic and cultural institutions by world economic integration; evaluation of successes and failures of economic development.

GEO 412 Geography of South Asia and the Middle East (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-odd years
Geo-political, biophysical, religious and social aspects of South Asia and the Middle East.

GEO 415 Cartography (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Cartographic drawings, map symbolism, and map design; various map projections are studied with regard to possible uses.

GEO 416 Geographic Information Systems (4 credits)
Hours: 3 classroom + 1 lab/studio
Taught: Fall and spring
Introduction to the theories, principles, construction methods, and applications of geographic information systems; employment of a GIS software package to manipulate geographically referenced data.

GEO 419 Remote Sensing of Environment (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
Introduction to the principles, characteristics and applications of environmental remote sensing; concepts and foundations of remote sensing, photographic systems and interpretation, thermal and multispectral scanning, radar systems, satellite remote sensing, and digital image processing.
GEO 499 Senior Seminar in Geography (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Fall only-odd years
Capstone for Geography. Deepen students’ knowledge of core themes, debates, research problems, and professional applications in Geography. Guide students as they develop strategies and prepare materials for job search campaign.

GEO 492 Directed Research: Geography (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 semester hours of geography and consent of instructor.
Taught: Variable, check with department
Independent work on research project agreed upon by student and instructor.

GEO 499 Directed Readings: Geography (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Taught: Variable, check with department
Individually supervised readings on a selected area of geography.

GEO 502 Geography of Kentucky (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-even years
Cultural, physical, economic, and population characteristics of Kentucky; Kentucky’s regional and national importance.

GEO 507 Local Community: Geography Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Taught: Spring only-odd yrs
A site-based examination of specific regional features, including cultural heritage infrastructure, tourist infrastructure, or a range of other urban and regional planning issues. May include a service learning component.

GEO 518 Geographic Information Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: GEO 418.
Taught: Variable, check with department
Theories, principles, and applications of geographic information analysis; employment of a GIS software package and other computer software packages to manipulate Geographic Information analysis methods.

GEO 519 Advanced Remote Sensing (3 credits)
Hours: 3 classroom + 1 lab/studio
Prerequisites: GEO 419.
Taught: Variable, check with department
Introduction to digital remote sensing data processing theories and techniques; employment of a digital remote sensing data processing software package to manipulate digital remote sensing data processing techniques.

GEO 520 Environmental Resources for Teachers (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 semester hours of geography.
Taught: Variable, check with department
Study of environmental problem areas such as energy use, population growth, deforestation, toxic wastes, landscape conservation, and sustainable practices; may include a service learning component.

GEO 522 Introduction to Historic Preservation (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Taught: Spring only-even yrs
An examination of the growing field of historic preservation including such topics as philosophy, recognition and assessments, survey techniques, preservation planning, conservation, advocacy, federal compliance, and protection of significant resources.

GEO 540 Cultural Geography of Asia (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Taught: Spring only-odd yrs
Selective consideration from among broad range of themes in the cultural geography of Asia, such as environmental sustainability, political processes, urbanization, religion, nationalism, recreation, and domestic habitation. May be repeated once for credit when topics vary.

GEO 552 Spatial Data Bases (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Introduction to fundamental spatial data organizing theories and principles, and spatial data modeling techniques underlying various spatial information systems; employment of a GIS software package to manipulate spatial databases.

GEO 592 Directed Research in Geography (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: consent of instructor.
Taught: Variable, check with department
Individual research in an area of geography under supervision of a faculty member. May be repeated once for credit.

GEO 594 Special Topics Geography (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Variable, check with department
Study of selected topics. Subfields will be chosen in keeping with interest of the instructor and will be listed in Schedule of Classes. May be repeated for credit when topics vary.

German Courses (GER)

GER 101 Elementary German I - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Fundamentals; introduction to German-speaking countries and cultures; development of skills in conversation, pronunciation, grammar, reading, and writing.

General education credit: Culture and Creativity

GER 102 Elementary German II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: For students who have completed GER 101 or equivalent.
Taught: Fall and spring
Continuation of GER 101.

GER 201 Intermediate German I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: For students who have completed GER 102 or equivalent.
Taught: Fall and spring
Review and extension of basic language skills learned in GER 101 and GER 102; reading and discussion of cultural, linguistic, and literary subjects.

GER 202 Intermediate German II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: For students who have completed GER 201 or equivalent.
Taught: Fall and spring
Continuation of grammar review and enhancement of language skills begun in GER 201; consideration of cultural and literary subjects as well.
GER 304 German Composition and Conversation (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: GER 202 or appropriate placement score.
Taught: Variable, check with department
Advanced practice in writing German compositions and in oral conversation skills.

GER 310 Contemporary German Life (2-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: GER 202 or appropriate placement score.
Taught: Variable, check with department
Key issues in Germany since World War II as reflected in works of contemporary German authors. May be repeated once for credit as topics vary.

GER 311 German Cultural History (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: GER 202 or appropriate placement score.
Taught: Variable, check with department
Eras, institutions, and issues in the history of Germany; readings primarily in German.

GER 320 Survey of German Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: GER 202 or appropriate placement score.
Taught: Variable, check with department
Overview of major authors and movements from the Middle Ages to the 20th century.

GER 322 German Drama (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: GER 202 or appropriate placement score.
Taught: Variable, check with department
Study of major authors and texts in the history of German theater, including representative twentieth century playwrights; readings in German. May be repeated when topics vary.

GER 323 German Prose Fiction (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: GER 202 or appropriate placement score.
Taught: Variable, check with department
Study of major authors and texts in the history of German literature; focus on novel, novella, or short story. May be repeated for credit as topics vary.

GER 330 Studies in German Language Cinema (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: GER 202 or equivalent.
Taught: Variable, check with department
Survey of films produced in the German language. Emphasizes both the aesthetic aspects of the films as well as their historical, political, social and cultural content. May be repeated as topics vary.

GER 340 Business German (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: GER 201 or equivalent.
Taught: Variable, check with department
Introduction to German business terminology and practice in writing and translation of business letters. For students majoring in business and others seeking to broaden their career opportunities.

GER 350 Methods of Teaching German (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: GER 202 or appropriate placement score.
Taught: Spring only-odd yrs
Theoretical and practical considerations of teaching German in secondary schools. Required of all students seeking teaching certification in German.

GER 401 German Phonetics and Pronunciation (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of German on the 300 level or above or consent of instructor.
Taught: Variable, check with department
Study of German sound system, how sounds are produced, which ones are used in German, and in what contexts they occur. Satisfies the linguistics requirement for German Education majors.

GER 402 Advanced German Grammar and Syntax (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of German on the 300 level or above or consent of instructor.
Taught: Variable, check with department
Study of German grammar through analysis of key linguistic structures and applied practice. Analysis of word formation, sentence structure, and semantics. Satisfies the linguistics requirement for German Education majors.

GER 480 Studies in German Culture (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: GER 202 or appropriate placement score.
Taught: Variable, check with department
Topics in culture and language of German-speaking countries. May be repeated for credit as topics vary.

GER 481 Studies in German Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: GER 202 or appropriate placement score.
Taught: Variable, check with department
Topics in literature, literary history, and literary theory. May be repeated for credit when topics vary.

GER 499 Independent Study: German (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Readings in language and literature and culture.

GER 520 Readings: German (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Various literary, linguistic, cultural, and pedagogical topics. May be repeated for credit when topics vary.

Geology Courses (GLY)

GLY 110 The Face of the Earth with Laboratory - SL (4 credits)
Hours: 3 classroom + 2 lab/studio
Taught: Fall, spring, and summer
Occurrence, formation, accumulation, and availability of minerals and rocks as earth resources; geologic agents and processes that modify the Earth’s surface; study of local rock types to explain their origin. Field trips.
General education credit: Natural Science

GLY 120 This Dangerous Earth - SL (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
A study of the ways in which geology affects our society including geologic hazards such as volcanoes, earthquakes, landslides, flooding, and coastal erosion as well as the pollution of our soil and water resources. Emphasis is placed on environmental geologic conditions in the tri-state.
General education credit: Natural Science, General education credit: Global Viewpoints

GLY 120H This Dangerous Earth - SL (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-odd yrs
A seminar investigation of the ways in which geology affects our society including geologic hazards such as volcanoes, earthquakes, landslides, flooding, and coastal erosion. Emphasis is placed on environmental geologic conditions of the tri-state.
General education credit: Natural Science

GLY 120L This Dangerous Earth Laboratory (1 credit)
Hours: 1 classroom + 1 lab/studio
Co-requisites: A 100-level or 200-level geology course.
Taught: Fall only
A laboratory experience to study the geology of the Cincinnati/Northern Kentucky region, the geologic history of the region, and the ways the
past geologic processes have acted to create the present landscape.

**GLY 150 Introduction to Field Paleontology (3 credits)**
*Hours: 0 classroom + 6 lab/studio*  
*Taught: Summer only*
Introduction in methods of field paleontology. This will include safety procedures, collection and documentation of samples, and methods of scientific protocol for sample preservation.

**GLY 220 History of the Earth (3 credits)**
*Hours: 3 classroom + 0 lab/studio*  
*Taught: Spring only*
An introduction to the origin of the Earth, including plate tectonics, mountain building, the evolution of life as interpreted from the fossil record, mass extinctions, and catastrophic geologic events. Emphasis is placed on the geologic history and fossil record of the tri-state region.

**GLY 225 Prehistoric Life - NS (3 credits)**
*Hours: 3 classroom + 0 lab/studio*  
*Taught: Fall only*
The study of prehistoric life as documented in the fossil record. The course will cover the evolution of life over geologic time from simple forms in Precambrian through trilobites, dinosaurs, woolly mammoths, and man. Emphasis is placed on the fossil record and prehistoric life of the tri-state region.

*General education credit: Natural Science*

**GLY 230 Geology of National Parks - NS (3 credits)**
*Hours: 3 classroom + 0 lab/studio*  
*Taught: Fall and spring*
A study of the principles of physical geology using national parks as examples to illustrate the concepts presented. This will include the formation and occurrence of rocks and minerals, the internal processes that have acted to form underlying rock structures, and the surficial processes that have acted to form current landforms.

*General education credit: Natural Science*

**GLY 292 Research Experience in Geology (0 credits)**
*Hours: 0 classroom + 0 lab/studio*  
*Prerequisites: Consent of instructor and department chair.*  
*Taught: Fall, spring, and summer*
Original research work directed by one or more members of the geology faculty. May be taken more than once. Pass/fail grade only.

**GLY 294 Topics: Geology (1-3 credits)**
*Hours: 1-3 classroom + 0 lab/studio*  
*Prerequisites: Consent of department chair.*  
*Taught: Fall, spring, and summer*
Special topics in geology. Repeatable for a maximum of 12 semester hours.

**GLY 315 Structural Geology with Laboratory (4 credits)**
*Hours: 3 classroom + 2 lab/studio*  
*Prerequisites: GLY 110 and MAHD 099 or placement.*  
*Taught: Variable, check with department*
Primary and secondary structures of the Earth’s crust.

**GLY 316L Geologic Field Trip (1 credit)**
*Hours: 0 classroom + 3 lab/studio*  
*Prerequisites: Junior standing and consent of instructor.*  
*Taught: Variable, check with department*
Participation in an extended-duration field trip to study geologic features and processes that do not occur within the tri-state region. Repeatable to a maximum of 3 credit hours.

**GLY 325 Geology of the Planets (3 credits)**
*Hours: 3 classroom + 0 lab/studio*  
*Prerequisites: GLY 110 or AST 110.*  
*Taught: Variable, check with department*
Geologic features and history of the inner planets, satellites of the gas giants, asteroids, and other small solid bodies. Same as AST 325.

**GLY 330 Geomorphology with Laboratory (4 credits)**
*Hours: 3 classroom + 2 lab/studio*  
*Prerequisites: GLY 110.*  
*Taught: Variable, check with department*
Description and interpretation of land forms.

**GLY 335 Earth Materials (4 credits)**
*Hours: 2 classroom + 4 lab/studio*  
*Prerequisites: GLY 110.*  
*Taught: Variable, check with department*
Study of the physical and chemical properties of common rock and ore-forming minerals and the igneous, metamorphic, and sedimentary rock types that they form. The origin and development of rock systems.

**GLY 340 Introduction to Environmental Geoscience (3 credits)**
*Hours: 2 classroom + 1 lab/studio*  
*Prerequisites: GLY 110 or GLY 120.*  
*Taught: Fall only*
Human interaction with the Earth’s geologic aspects; natural hazards, water resources, waste disposal, energy, mineral resources, and land use and planning.

**GLY 341 Soil Science (3 credits)**
*Hours: 3 classroom + 0 lab/studio*  
*Prerequisites: GLY 110.*  
*Taught: Variable, check with department*
A study of the way in which soils and geologic conditions influence environmental conditions and projects. Soil formation and soil properties to include composition and water relationships as well as erosion theory and control and re-vegetation will be covered.

**GLY 350 Field Paleontology (3 credits)**
*Hours: 0 classroom + 6 lab/studio*  
*Prerequisites: Junior standing.*  
*Taught: Summer only*
Instruction in methods of field paleontology. This will include safety procedures, collection and documentation of samples and methods of scientific protocol for sample preparation. Students will identify and describe the results of paleontological collection and present the results for critical review.

**GLY 360 Introduction to Geophysics (4 credits)**
*Hours: 3 classroom + 2 lab/studio*  
*Prerequisites: GLY 110.*  
*Taught: Variable, check with department*
The course will present the background and theories used to investigate the Earth and its geophysical properties as they relate to seismology and tectonics. Students will become familiar with the common geophysical methods in terms of the basic theory, data collection, and interpretation of observations.

**GLY 392 Directed Research: Geology (1-4 credits)**
*Hours: 1-4 classroom + 0 lab/studio*  
*Prerequisites: Junior standing.*  
*Taught: Fall, spring, and summer*
Supervised research in an area of geology currently under investigation by one or more of the geology faculty. Repeatable for a maximum of 9 semester hours.

**GLY 394 Seminar: Geology (1 credit)**
*Hours: 1 classroom + 0 lab/studio*  
*Prerequisites: Junior standing.*  
*Taught: Fall and spring*
Introduction to the concept of professional development and discussion of the abilities necessary for successful careers in geology. Written and oral reports required. Repeatable to a maximum of 3 semester hours.

**GLY 396 Assistant: Undergraduate Laboratory (1-3 credits)**
*Hours: 1-3 classroom + 0 lab/studio*  
*Prerequisites: Geology GPA of at least 3.00, junior standing and consent of instructor.*  
*Taught: Fall, spring, and summer*
Participation in planning, setting up, teaching, conducting reviews, and testing in an undergraduate laboratory course. For students
majoring in geology. Up to 6 semester hours may be earned in this course.

**GLY 397 Special Projects: Geology (1-4 credits)**
Hours: 1-4 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Fall, spring, and summer
Completion of an independent project in geology. Repeatable for a maximum of 6 semester hours.

**GLY 399 Readings: Geology (1-3 credits)**
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: 20 semester hours in geology.
Taught: Fall, spring, and summer
For students able to do independent work. Repeatable to a maximum of 6 semester hours.

**GLY 402 Invertebrate Paleontology with Laboratory (4 credits)**
Hours: 3 classroom + 2 lab/studio
Prerequisites: GLY 110.
Taught: Summer only
Major phyla in the fossil record; paleo-biological, systematic, and evolutionary aspects; collection and classification of local fossils. Same as BIO 405.

**GLY 416 Geologic Field Methods (3 credits)**
Hours: 1 classroom + 6 lab/studio
Prerequisites: Junior standing.
Taught: Summer only
Introduction to the principles of geologic field methods applied to the mapping of geologic structures and the interpretation of geologic history. Course integrates the concepts of geologic investigation through field exercises in the Rocky Mountains.

**GLY 420 Stratigraphy and Sedimentation with Laboratory (4 credits)**
Hours: 2 classroom + 4 lab/studio
Prerequisites: GLY 335.
Taught: Variable, check with department
Physical and biological basis of stratigraphy; processes of formation and environments of deposition of sedimentary rocks.

**GLY 425 Economic Geology (4 credits)**
Hours: 3 classroom + 2 lab/studio
Prerequisites: GLY 335.
Taught: Variable, check with department
An introduction to the geology of our energy, metallic, and nonmetallic natural resources. This course will cover the geologic factors that have led to their formation, the procedures applicable for their exploration, and the geologic conditions that control their environmentally responsible development. Laboratory included.

**GLY 435 Petrology and Petrography (4 credits)**
Hours: 2 classroom + 4 lab/studio
Prerequisites: GLY 335 and GLY 420.
Taught: Variable, check with department
Students will use petrographic analysis to identify minerals. Students will use this analysis to identify rocks and to evaluate rocks for geologic history as well as for economic applications.

**GLY 440 Applied Geophysics (3 credits)**
Hours: 2 classroom + 2 lab/studio
Prerequisites: GLY 110.
Taught: Variable, check with department
Investigate the distribution of geologic materials and their geophysical properties in the shallow subsurface using geophysical field techniques in terms of basic theory, and data collection and interpretation.

**GLY 445 Geophysical Modeling (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: MAT 119 or placement and GLY 380.
Taught: Fall only
The background and theories used to model geophysical methods. The common geophysical modeling techniques in terms of synthetic, forward and inverse modeling procedures.

**GLY 450 Hydrogeology (4 credits)**
Hours: 2 classroom + 4 lab/studio
Prerequisites: GLY 110 or GLY 120 and MAT 119.
Taught: Spring only
Overview of groundwater’s physical and chemical properties and their corresponding principles as they pertain to geologic environments.

**GLY 455 Groundwater Resources and Management with Laboratory (4 credits)**
Hours: 2 classroom + 4 lab/studio
Prerequisites: GLY 450.
Taught: Fall only
Geologic and hydrologic factors that control the management of groundwater resources; emphasis placed on groundwater management, groundwater quality and groundwater remediation.

**GLY 461 Ecology and Geology of Coral Reefs (4 credits)**
Hours: 3 classroom + 3 lab/studio
Prerequisites: Declared major in natural science.
Taught: Variable, check with department
Ecological and geologic processes in reef ecosystems. Benthic and pelagic biotic communities, reef development and erosion, sedimentation, ancient and modern reefs, responses to environmental change. Required field trip to marine research laboratory.

**GLY 492 Directed Research: Geology (2-6 credits)**
Hours: 2-6 classroom + 0 lab/studio
Prerequisites: 24 semester hours in geology.
Taught: Fall, spring, and summer
Independent work in field, laboratory and library on research topic chosen prior to registration. Students must present at a local, regional or national meeting. Repeatable to a maximum of 6 hours.

**GLY 496 Externship: Geology (1-3 credits)**
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Six hours of geology courses; declared major in Geology or Environmental Science.
Taught: Fall, spring, and summer
Off-campus learning at institutions, universities, or businesses conducting geologic studies. Course may be repeated for new externship projects; up to 4 semester hours total may be earned in this course. For students majoring or minoring in geology or environmental science.

### Health Education Courses (HEA)

**HEA 125 Introduction to Health Education (3 credits)**
Hours: 3 classroom + 0 lab/studio
Taught: Fall and summer
Examination of health education as an emerging profession and how health education programs are implemented in the schools, community, and patient education. Emphasis will be on health education concepts, models, theories, philosophies and beliefs.

**HEA 135 Safety and First Aid (3 credits)**
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
First aid measures for injuries, emergencies, and sudden illness; skill training in all procedures; general safety education; accident cause and remedial action. American Red Cross certification in basic first aid and CPR for students passing the examinations.

**HEA 230 Personal Health and Wellness (3 credits)**
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Major health issues/problems associated with lifestyle related behaviors and prevention strategies, Nutrition, physical activity and weight management, mental health, sexuality, environmental health, communicable and chronic diseases, consumerism, stress management, and aging.
HEA 250 Health Education for Elementary Teachers (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: EDU 104.
Taught: Fall, spring, and summer
Content and skills for developing, implementing, and evaluating health education in the P-5 classroom.

HEA 270 Community Health (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
Understanding components of community health, community mobilization and building, community needs assessments, Community concerns such as: Alcohol, Tobacco, and Drug, Community health and minorities, Health care systems, physical diseases, psychosocial problems, and environmental and special aspects.

HEA 320 Drug and Alcohol Education (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Spring only
Effects of drug use and abuse on the individual and society. Personal, school and community approaches toward establishing intelligent use of drugs.

HEA 350 Sexuality Education (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Fall only
Current issues in sexuality education; psychological, biological, and sociological aspects of sexuality; dealing with controversial areas of sexuality; scope and sequence of sexuality education K-12.

HEA 489 Field Experiences in Health Education (1 credit)
Hours: 0 classroom + 1 lab/studio
Co-requisites: HEA 525.
Taught: Fall only
Supervised practice teaching experience in elementary, middle, and high school setting. Integrated with methods course.

HEA 525 Methods and Materials in Health Education (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Undergraduates admission to teacher education and 9 semester hours in health education or consent of instructor.
Taught: Fall only
Principles, methods, and techniques for developing, implementing, and evaluating health education in P-12 and other appropriate settings; theoretical foundations, teaching methodology and strategies, curriculum designs, and resource materials.

HEA 599 Topics: Health Education (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Variable, check with department
Individual or group study of a topic of current interest in health education. Topic selected by student with approval of instructor.

Health Informatics Courses (HIN)

HIN 355 Introduction to Health Informatics (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
The Introduction to Health Informatics is an introduction to the concepts and trends in the Health Informatics field both locally and nationally. Several areas will be introduced that will provide baseline knowledge for a Health Informaticist.

HIN 356 Health Information Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HIN 355.
Taught: Fall and spring
Health Information Management is a course focusing on data management, requirements and standards, classification systems, and reimbursement in relation to healthcare processes. Provides health informatics and basic information systems knowledge for working in a health delivery environment or a health related organization and in the application of concepts through the use of clinical software. It is expected that students will be competent in the use Microsoft Excel, PowerPoint and Word.

HIN 396 Applied Health Informatics (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Departmental permission.
Taught: Variable, check with department
Applied projects and experiential learning work experience relating to health informatics. Academic credits are awarded based on defined student learning objectives and coinciding project and/or practical work experience in the health informatics field (on a variable scale). Repeatable for up to 6 credit hours. 3 hours can be applied as an elective to the HIN minor.

MHI 599 Independent Study (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Independent project or intensive study/research with faculty guidance. Open only by consent of advisor/instructor. Meeting times arranged with instructor.

History Courses (HIS)

HIS 100 History of Europe to 1500 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Survey of Europe including Greco Roman civilization, the Middle Ages, the Renaissance, and the emergence of the modern era.

HIS 101 History of Europe since 1500 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Survey of Europe from 1500 to the present; impact of modern political revolution, the industrial revolution, and social and cultural alterations that have shaped contemporary society.

HIS 102 History of the United States through 1877 - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
The nation’s development from the beginning through the Civil War and Reconstruction. Designed to meet demands for a general understanding of U.S. history.
General education credit: Culture and Creativity

HIS 103 History of the United States since 1877 - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
Exploration of the nation’s development since 1877. Designed to meet demands for a general understanding of U.S. history.
General education credit: Culture and Creativity

HIS 105 History of African Americans to 1877 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Major trends of African American history from its 15th century West and Central African heritage to enslavement and ultimate emancipation; conditions and contributions of African American men and women within the American experience.

HIS 107 History of African Americans since 1877 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
Major trends of African American history from the end of Reconstruction; responses of African Americans to Jim Crow; African American participation in the two world wars, the Vietnam War, and the Civil Rights movement.

HIS 108 World History to 1500 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Political, social, economic and cultural development of major world societies to the expansion of the western world.
HIS 109 World History since 1500 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Political, social, economic and cultural development of major world societies in the modern era.

HIS 111 Global Viewpoints in History - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
This course examines a particular continent, cultural region, or nation, focusing on the historical themes, people, and events that fashioned it today, especially those relating to imperialism and colonialism.

General education credit: Global Viewpoints

HIS 194H Honors History Seminar (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: A composite score of 24 on current ACT or equivalent; or HNR GPA of 3.25 or higher.
Taught: Variable, check with department
Research methods and materials of the historian; usefulness of historical analysis to students in many disciplines. An alternative to the 100 level survey courses for students who have demonstrated outstanding potential in history.

HIS 291W Advanced Historical Writing - WC (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
This course requires students to study and practice writing in a variety of expository forms, with attention to audience, purpose, and conventions appropriate to writing situations; emphasis on research-based writing and persuasive strategies.

General education credit: Written Communication II

HIS 300 The Ancient Near East and Greece to the Macedonian Conquest (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Birth of civilization in Egypt and Mesopotamia; ancient near East and Greece to the conquest of Greece by Philip of Macedon.

HIS 301 The Hellenistic World and Rome to the Death of Constantine (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Conquests of Alexander the Great; main features of the Hellenistic world and the Roman Empire.

HIS 303 Europe in the Middle Ages (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Developments from the 4th through the 15th centuries.

HIS 304 Renaissance Europe (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
Developments from Petrarch to the Treaty of Westphalia; significant cultural and religious trends.

HIS 305 Reformation Europe (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
German, English, Swiss, and French reformation; Counter Reformation; religion, politics, and social and intellectual change, 1494-1648.

HIS 308 Modern Europe 1870-1920 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
European society, especially as affected by the growth of nationalism, imperialism, and modern science culminating in the origins and results of World War I.

HIS 309 Modern Europe since 1920 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Origins and development of the English colonies.

HIS 310 Colonial America to 1763 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
American independence, 1763-1789 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-odd yrs
Causes of the break between America and Great Britain; the war for American independence; the confederation period; writing and adopting the Constitution and the Bill of Rights.

HIS 311 Independence and Constitution 1763-1789 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Successful consolidation of the U.S. as a modern nation-state.

HIS 312 Federalist United States 1789-1828 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-odd yrs
Impact of the War of 1812; the political, economic, and social development of the United States.

HIS 314 Rise of the Industrial United States, 1865-1900 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Effects of increased industrialization and urbanization on the U.S. economy, government, and post-Civil War society.

HIS 315 Modern U.S. History, 1900-1939 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Major changes that marked the U.S. during the first 40 years of the 20th century.

HIS 316 Modern United States History since 1939 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Major political and social changes since 1939.

HIS 317 History Behind American Treasures (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Variable, check with department
Students compare the way historians use material culture with its use by television producers and museum curators.

HIS 318 Exploring Public History (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HIS 102 and HIS 103 or consent of instructor.
Taught: Fall only
Exploration of different non-academic career fields open to history and humanities majors; coursework includes reading current scholarship by different public history practitioners and active, experiential, service, and problem based learning projects.

HIS 321 Modernization in the Non-Western World (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
The "Third World" nations; problems resulting from conflicting dynamics of independence and modernization.

HIS 325 Early Latin American History (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Origins, growth, and development of Latin America from the pre-Colombian period to the independence revolutions of the early 19th century, including analysis of Iberian and non-Iberian tradition.

HIS 326 Modern Latin American History (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
Political, economic, social, and cultural development of Latin America from independence through the 19th and 20th centuries; analysis of Iberian and non-Iberian tradition.

HIS 329 History of the Middle East and North Africa (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Evolution of southwestern Asia and north Africa since the rise of Islam; 19th and 20th century origins of contemporary problems.
HIS 330 Jewish History (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
A survey of the history of the Jewish People from the patriarchs to the present, covering the global development of Jewish intellectual history and cultural identities, including interactions with surrounding cultures and civilizations.

HIS 335 History of Ancient Africa (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Examination of African History from the earliest humans to the transatlantic slave trade. Course stresses the use of interdisciplinary sources to reconstruct African History and counter popular myths about Africa and Africans.

HIS 336 History of Modern Africa (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
Examination of African History from the transatlantic slave trade to the current era. Course stresses the historical roots of current African conditions via an understanding of the transatlantic slave trade, colonialism, and African cultural, economic and political traditions.

HIS 338 History of Japan (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-odd years
Traditional and modern Japan; cultural, political, religious and philosophical survey.

HIS 339 History of China (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
A survey of the historical, geographical, political, cultural, and economic factors influencing the development of China from earliest times to the present.

HIS 340 History of Imperial China (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: A 100-level history course or consent of instructor.
Taught: Variable, check with department
Intro to Chinese history of the Imperial era from 5000 B.C. to the Ming Dynasty in the mid-17th century, emphasizing the driving forces, formative movements and ideas that have shaped the Middle Kingdom until the early-modern era. It assumes no prior knowledge of Chinese history or language.

HIS 341 History of Revolutionary China (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: A 100-level history course or consent of instructor.
Taught: Variable, check with department
Introduction to Chinese Revolutionary History from the Qing Empire until the present, emphasizing Chinese imperial expansion, semi-colonialism during the 19th century and the revolutionary and nationalist upheavals of the 20th century. It assumes no prior knowledge of Chinese history or language.

HIS 342 India: From Prosperity to Poverty (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Fall only
A survey of the historical, economic, cultural, geographical, and political factors influencing the development of India from earliest times to the present, with special focus on why India went from being one of the world’s most prosperous civilizations to one of the poorest nations.

HIS 348 History of France, 1804-1918 (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of history.
Taught: Variable, check with department
Survey of major political, social and cultural transformations experienced by France over the 19th and early 20th centuries.

HIS 349 History of France, 1918 to Present (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of history.
Taught: Variable, check with department
Survey of major political, social and cultural transformations that France experienced since the end of World War 1.

HIS 353 British History to 1485 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-odd years
From the Roman invasion to the end of the Middle Ages.

HIS 354 British History from 1485 to 1763 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-even yrs
From the founding of the Tudor dynasty to the accession of George III.

HIS 355 British History from 1763 to 1837 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-even years
From the accession of George III to the present.

HIS 356 History of Modern Russia since 1855 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Modernization under the last Romanov emperors; Bolshevik dictatorship; modern communist state; post-communist developments.

HIS 357 Modern Russia since 1855 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Modernization under the last Romanov emperors; Bolshevik dictatorship; modern communist state; post-communist developments.

HIS 358 Modern Russia since 1855 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
From the Romanov emperors to the present.

HIS 359 Modern Russia since 1855 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Modernization under the last Romanov emperors; Bolshevik dictatorship; modern communist state; post-communist developments.

HIS 360 Europe: From Poverty to Prosperity (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Spring only
A social, political, and economic overview of Europe from medieval times to the present, focusing on why Europe went from being one of the world’s poorest civilizations to one of the most prosperous.
HIS 382 History of Kentucky (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
History of Kentucky from 1750 to the present; political, economic, and social issues; how developments in the Commonwealth related to trends in U.S. history.

HIS 383 American Immigration History (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
A thematic introduction to the major issues in the history of American immigration.

HIS 384 History of American Religion (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
A thematic introduction to the major issues in the history of American religion.

HIS 386 US: Poverty in the Midst of Prosperity (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Fall only
A social, political, and economic overview of the United States from colonial times to the present, with special exploration of why poverty still persists in the US in the midst of prosperity.

HIS 387 Modern American History, 1945-1975 (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Three credit hours in history or sophomore standing.
Taught: Variable, check with department

HIS 388 Recent US History, 1975 - Present (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Three credit hours in history or sophomore standing.
Taught: Variable, check with department
Social and political developments in the U.S. since 1975.

HIS 389 Historical Research and Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
An introduction to methods of historical research and writing. Required of all students majoring in history and secondary social studies; should be taken if possible in the sophomore year.

HIS 390 The French Revolution (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Political, social and cultural history of the French Revolution from its origins to the advent of the Napoleonic Empire in 1804, emphasizing the impact of the Revolution on the French and European social and political order.

HIS 391 History of Nazi Germany (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of department.
Taught: Spring only-odd yrs
Origins, dimensions, and downfall of Hitler’s fascist state.

HIS 392 Diplomacy and Foreign Policy of the United States (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Prerequisites: Sophomore standing or consent of instructor.
Exploitation of the U.S. mind and character from Puritanism to modern times.

HIS 394 Special Topics in History (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Variable, check with department
Class in topic not included in regular history curriculum. May be repeated for credit when topics vary.

HIS 395 Study Abroad in History (1-15 credits)
Hours: 1-15 classroom + 0 lab/studio
Prerequisite: Consent of department.
An opportunity for students to engage in one or more officially-sponsored and/or departmentally-approved History courses abroad, ranging from one week to an entire semester. May be repeated for credit when topics vary.

HIS 396 American Immigration History (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
A thematic introduction to the major issues in the history of American immigration.

HIS 397 Recent US History, 1945 (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisite: 3 credit hours in history or sophomore standing.
Taught: Fall only-odd yrs
Spread of settlement, growth of urbanization, and development of economic and culture regions; past and present distribution of religious groups, European ethnic groups, and African-Americans. Same as GEO 309.

HIS 409 The Holocaust (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of department.
Taught: Spring only-odd yrs
Experiences undergone by Africans in the diaspora from Africa and subsequent scattering throughout the U.S.; struggles over race and gender within the context of dominant political, economic, social, and cultural institutions; attempts by Blacks to build an enduring community.

HIS 410 The French Revolution (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Political, social and cultural history of the French Revolution from its origins to the advent of the Napoleonic Empire in 1804, emphasizing the impact of the Revolution on the French and European social and political order.

HIS 412 Cultural and Intellectual History of the United States (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Exploitation of the U.S. mind and character from Puritanism to modern times.

HIS 413 History of Nazi Germany (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of department.
An opportunity for students to engage in one or more officially-sponsored and/or departmentally-approved History courses abroad, ranging from one week to an entire semester. May be repeated for credit when topics vary.

HIS 414 The Holocaust (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
An exploration of the genocidal European Holocaust during World War II. Includes study of the origin, growth and development of European anti-Semitism and pseudoscientific biological racism as practiced in National Socialist (Nazi) Germany.

HIS 415 History of Nazi Germany (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of department.
Taught: Spring only-odd yrs
Origins, dimensions, and downfall of Hitler’s fascist state.

HIS 416 Diplomacy and Foreign Policy of the United States (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Prerequisites: Sophomore standing or consent of instructor.
Exploitation of the U.S. mind and character from Puritanism to modern times.

HIS 417 Civil War and Reconstruction, 1860-1877 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-even yrs
Causes of the Civil War; the war in the field and on the home front; slavery, emancipation, and the economic, political, and social consequences of reconstruction.

HIS 418 Economic History of the United States since 1865 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-odd yrs
The Industrial Revolution and its social consequences; immigration and mobility; gender issues; other backgrounds to contemporary society.

HIS 419 Social and Economic History of US since 1865 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-even yrs
The Industrial Revolution and its social consequences; immigration and mobility; gender issues; other backgrounds to contemporary society.

HIS 420 Social and Economic History of US since 1865 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-odd yrs
The Industrial Revolution and its social consequences; immigration and mobility; gender issues; other backgrounds to contemporary society.

HIS 421 Cultural and Intellectual History of the United States (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Exploitation of the U.S. mind and character from Puritanism to modern times.

HIS 423 Diplomacy and Foreign Policy of the United States (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Exploitation of the U.S. mind and character from Puritanism to modern times.

HIS 421 Cultural and Intellectual History of the United States (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Exploitation of the U.S. mind and character from Puritanism to modern times.

HIS 422 Historical Geography of the United States (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Exploitation of the U.S. mind and character from Puritanism to modern times.

HIS 423 Diplomacy and Foreign Policy of the United States (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Exploitation of the U.S. mind and character from Puritanism to modern times.

HIS 424 Historical Themes in African-American History (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-odd yrs
Spread of settlement, growth of urbanization, and development of economic and culture regions; past and present distribution of religious groups, European ethnic groups, and African-Americans. Same as GEO 309.

HIS 425 Historical Themes in American Popular Culture (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of department.
A historical analysis of the creation of popular entertainment for and by working class Americans between the mid-1800s to the present day.
HIS 435 History of Race Relations in the Americas, 1492-1800 (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of history or consent of instructor.
Taught: Variable, check with department
Major influences in the formation of race relations in the Americas (U.S. and Latin America) from the revolutions for independence; role of race in the development of European colonies in the Americas.

HIS 436 History of Race Relations in the Americas, 1800-Present (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of history or consent of instructor.
Taught: Variable, check with department
Major influences in the development of race relations in the Americas (U.S. and Latin America) from the revolutions for independence to the present; role of race in the development of modern nation states in the U.S. and Latin America.

HIS 438 African-American Women's History and Culture (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
This discussion-oriented course is a history of African-American women that begins by examining African women and their cultures prior to European contact and ends with a look at women in the Civil Rights Movement.

HIS 442 History through Biography (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Examination of various historical eras through study of lives of influential and outstanding individuals from diverse areas. Topics vary. May be repeated once for credit.

HIS 444 History of Women in the United States to 1900 (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HIS 102.
Taught: Fall only-even yrs
Women's role in U.S. economic, social, political, and cultural development until 1900; participation of women in historical eras from earliest societies through industrialization as experienced in diverse ways depending on racial, ethnic, class, and regional differences.

HIS 445 History of Women in the United States since 1900 (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HIS 103.
Taught: Spring only-odd yrs
Women's role in U.S. economic, social, political, and cultural development since 1900; participation of women in recent history as experienced in diverse ways depending on racial, ethnic, class, and regional differences.

HIS 454 Early American Frontier (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Westward movement and its effects on national character to 1840; colonial wars, War for Independence, land policy, Indian relations, exploration, fur trade, War of 1812.

HIS 456 Nature and Development in Latin America (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of history or consent of instructor.
Taught: Fall only-odd yrs
Examination of the historical relationship between the natural environment and humans in Latin America from the pre-Columbian period to the present; historical ecology, environmental history, ecological degradation, economic/social development and modernization.

HIS 473 Battles and Behavior I: 1066-1836 (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Variable, check with department
Representative battles from Hastings to the Alamo; reveals the interaction between western civilization and its military conflicts.

HIS 475 The First World War (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-odd yrs
The military record and the war's impact upon international socioeconomic, political, and cultural change.

HIS 476 The Second World War (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-even yrs
Origins and prosecution of the war; military and diplomatic aspects from an international perspective.

HIS 485 History of Terrorism (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of history.
Taught: Spring only-odd yrs
A global examination of the historical evolution and significance of terrorism.

HIS 486 History of Modern Ireland (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of history or consent of instructor.
Taught: Fall only
An introduction to the main themes in Irish history over the last 250 years with particular reference to the growth of Irish nationalism, Anglo-Irish relations and the formation of Northern Ireland.

HIS 489 Senior Seminar (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HIS 389.
Taught: Fall and spring
A capstone course for history majors involving the study of historiography, methodology, career options and the preparation of an extended research project.

HIS 494 Topics: History (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: A 100-level history course and consent of instructor.
Taught: Variable, check with department
Participation in planning, implementation, and administration of civic engagement, public history, or other departmental projects under supervision of faculty.

HIS 496 Practicum: History (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: A 100-level history course or consent of instructor.
Taught: Variable, check with department
Individualized study of a special topic under supervision of faculty member. May be repeated for credit when topics vary.

HIS 512 History of Arab Israeli Conflict (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HIS 329 and HIS 330 or consent of instructor.
Taught: Spring only-even yrs
Political, social, diplomatic, and military aspects of the history of Palestinian/Israeli conflict in the context of the Cold War.

HIS 522 Introduction to Historic Preservation (3 credits)
Hours: 1 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Taught: Spring only-even yrs
An examination of the growing field of historic preservation including such topics as philosophy, recognition and assessments, survey techniques, preservation planning, conservation, advocacy, federal compliance, and protection of significant resources.

HIS 527 Urban History of the United States (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Origins and growth of cities; impact of cities upon U.S. development; contemporary urban problems.
HIS 528 Architectural History of the U.S. (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
This course enables students to identify the architectural styles and elements of dwellings and buildings in the United States, from native American times to the present day.

HIS 533 Causes of the Civil War (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-odd yrs
Conflicts from 1828 to 1861 regarding slavery, territorial expansion, and other issues that led to the Civil War.

HIS 535 Civil War and Reconstruction (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Causes of the U.S. Civil War; the war itself; slavery, emancipation, reconstruction; economic, military, and social aspects.

HIS 538 Modern United States History, 1900-1939 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-odd yrs
Rise of the U.S. to the status of a major world power; the “Progressive Era” and World War I; the 1920s and the 1930s.

HIS 539 Modern United States History since 1939 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-even yrs
Social and political developments from 1939 to contemporary society including the Civil Rights Movement.

HIS 541 History of Kentucky (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
History of Kentucky from 1750 to the present; political, economic, and social issues; how developments in the Commonwealth related to trends in U.S. history.

HIS 545 Topics in Women’s World History (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HIS 108 and HIS 109 or consent of instructor.
Taught: Spring only
Exploring women’s history in a global perspective, by looking at the status and contribution of women to world societies and discussing gender identity, class, race, religious and ethnic differences.

HIS 546 History of American Family (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
This discussion-oriented course is a history of the American family from the colonial era to the present. We will examine how and why courtship, marriage, sexuality, divorce, and parent/child relationships have changed over time while paying particular attention to racial, class, and gender differences.

HIS 548 Diplomacy and Foreign Policy of the United States (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Historical evolution of U.S. foreign policy from the Revolutionary War to the present; growth of the U.S. from a minor state to a global power.

HIS 550 History of Appalachia to 1877 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-even yrs
History of the Appalachian region from prehistory to 1877; political, economic, and social issues; developments in the region related to trends in U.S. History.

HIS 551 History of Appalachia since 1877 (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of history or consent of instructor.
Taught: Spring only-odd yrs
History of the Appalachian region from 1877 to the present; political, economic, and social issues; developments in the region related to trends in modern U.S. History.

HIS 552 History of the Old South (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
The southern U.S. to 1865; cultural, political, economic, and literary trends; African American experience in the South.

HIS 553 History of the New South (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
The southern U.S. since 1865; cultural, political, economic, and literary trends; roles of blacks from Reconstruction to present, including the rise of Jim Crowism, legal segregation in the 20th century, desegregation, and Civil Rights movements in the 1950s, 60s, and 70s.

HIS 555 Researching the Local History of Underground Railroad (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HIS 102 or HIS 106.
Taught: Fall only
This course explores the various activities of enslaved African Americans as they attempted to abscond from human bondage by crossing the Ohio River, which legally separated slave states from free states. Special attention will be placed on the Abolition Movement as well as the development of various African American communities in parts of Cincinnati and Northern Kentucky.

HIS 557 History of Indians in the United States (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Native cultural and historical experiences from the 15th to 20th century.

HIS 565 The Vietnam War (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of 100-level history courses.
Taught: Fall only-even yrs
History of Vietnam from a minor state to a global power.

HIS 570 The Cold War (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 hours of 100-level history courses.
Taught: Fall only-odd yrs
International perspective on the causes and evolution of the conflict between the United States and the Soviet Union and their allies; effects on world affairs to the fall of the Berlin Wall and demise of the Soviet Union.

HIS 571 Internet Research: American History (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
This is a topical survey of American History from a multicultural perspective using the internet.

HIS 589 Anglo-American Legal History (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
This is a topical survey of American History from a multicultural perspective using the internet.

HIS 592 Directed Research in History (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Individual research in an area of history under supervision of faculty member. May be repeated once for credit.
HIS 594 Special Topics in History (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Variable, check with department
Prerequisites: Departmental permission.
This course will include a study abroad component. May be repeated for credit.

HIS 596 Internship: History (3 credits)
Hours: 0 classroom + 3 lab/studio
Prerequisites: HIS 515 or consent and instructor.
Supervised work experience in a community history agency or institution or experiential learning in an aspect of public history under the direction of a faculty member. May be repeated once for credit.

HIS 599 Independent Study: History (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Individualized study of a special topic under supervision of faculty member. May be repeated for credit when topics vary.

Honors Courses (HNR)

HNR 101 Honors First-Year Seminar (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Honors status.
Taught: Fall only
Introduction to the NKU Honors Program and the honors style of learning. Emphasis on active participation, methods of independent student research and creative projects; collaborative learning.

HNR 301 Humanity and Nature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Honors status.
Taught: Fall and spring
Readings and discussion on significant issues and ideas in the interaction of humanity and nature.

HNR 302 Humanity and Society (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Honors status.
Taught: Fall and spring
Readings and discussion on significant issues and ideas in the interaction of humanity and society. Repeatable up to 6 hours.

HNR 303 Humanity and the Imagination (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Honors status.
Taught: Fall and spring
Readings and discussion on significant issues and ideas in the interaction of humanity and the imagination.

HNR 304 Humanity and the Machine (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Honors status.
Taught: Fall and spring
Readings and discussion on significant issues and ideas in the interaction of humanity and technology.

HNR 306 Studies in Diversity (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Honors status.
Taught: Fall and spring
Analysis of society and its multicultural representations in selected areas of study.

HNR 307 Studies in Film (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Honors status.
Taught: Fall and spring
Studies in selected topics in film and its relationship to social issues and other arts.

HNR 308 The World in Transition (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Honors status.
Taught: Fall and spring
Analysis of contemporary trends in cyberspace, business and other social arenas.

HNR 309 World Cities/World Cultures (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Honors status.
Taught: Fall and spring
Exploration and appreciation of selected world-class cities and a variety of cultures; cities and cultures vary from semester to semester; taught in English; may be cross-listed with a foreign-language course.

HNR 394 Honors Special Topics (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Honors status.
Taught: Fall and spring
Readings and discussion on significant issues not covered in other honors seminars.

HNR 395 Honors Study Abroad (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
This course will include a study abroad component. Classroom readings, discussions and other activities will prepare students to actively engage with the topics during the travel portion.

Final projects will be due upon completion of the study abroad portion of the course.

HNR 396 Honors Internship (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Honors status.
Taught: Fall and spring
Selected opportunities for students to serve as teaching assistants, research assistants or as assistants in designated business or community groups.

HNR 490 Honors Capstone in Major (0 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Honors status.
Taught: Fall and spring
Marker course for students doing a capstone project in their major.

HNR 491 Honors Interdisciplinary Capstone (0-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Honors status.
Taught: Fall and spring
Independent research; oral and written expression. Repeatable for up to 6 hours.

Human Resource Management Courses (HRM)

HRM 300 Introduction to Labor-Management Relations (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Fall and spring
Development, structure, and process of American labor relations; evolution and origins of labor unions, internal and external responses to their environment, major legislative and judicial decisions affecting labor management relations, and the collective bargaining process; current and anticipated developments.

HRM 301 Training and Employee Development (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MGT 340.
Taught: Spring only
This course will provide students the opportunity to develop essential knowledge and skills involved in the effective training and development of employees. This course will address the roles of organizational trainers and managers in employee training and development.

HRM 302 Recruiting and Selecting Human Resources (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MGT 340.
Taught: Spring only
Provides students in-depth knowledge of the human resources planning, recruitment, and selection activities performed in organizations.
Exposure to the variety of recruiting sources and hiring techniques managers use to staff the organization will be stressed. The focus will be on developing within the student the ability to design recruitment and selection programs that support the organization’s short-and long-term strategies.

HRM 303 Employment Law (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MGT 340.
Taught: Fall only
Legal and administrative framework for labor management relations; role of the courts; the NLRB and other administrative agencies, decisions, and procedures.

HRM 304 Compensation and Benefits (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MGT 340.
Taught: Fall only
Economic impact of wages and benefits on the labor management process; estimating the cost of the labor contract, benefits law, and effects of wages and benefits on the economy.

HRM 394 Topics: Human Resource Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MGT 340.
Taught: Variable, check with department
Specialized topics of student and business community interest. Topics for current offering listed on on-line Schedule of Classes. May be repeated once for elective credit when topics differ.

HRM 396 Human Resource Management Internship (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MGT 340.
Taught: Fall and spring
Application of theoretical knowledge in solving business problems through consulting and counseling with business owners; group work in case analysis and problem solving.

HRM 400 Strategic Human Resources (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MGT 340, one HRM class from the following: HRM 301, HRM 302, HRM 303, HRM 304, and senior standing and must be certified as a Human Resource Management major.
Taught: Spring only
This course will provide students the opportunity to learn essential knowledge and skills involved in making the Human Resources function a strategic partner in organization. Emphasis will be placed on aligning HRM activities with organizations’ values and mission and using HRM activities to build the organizational capability and competitive advantage.

Health Science Courses (HSC)

HSC 101 Introduction to Health Professions (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
A hybrid course providing an overview of current health care systems and roles of various health care practitioners, to include communication, safety, professionalism and trends in the delivery of health care.

HSC 105 Pharmacology (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: BIO 208 and BIO 208L with a C or better.
Taught: Spring only
Utilization of pharmacological principles or healthcare providers; pharmacological classifications and physiological actions.

HSC 291W Writing in the Health Science - WC (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 and either RAD 286 or RSP 286.
Taught: Variable, check with department
Introduction to methods of professional communication relative to health care delivery. Writing techniques used in health care will be emphasized, including charting, professional writing processes, conducting electronically based research evaluating sources and using sources correctly.

General education credit: Written Communication II

HSC 310 Healthcare Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Health Science major or consent of instructor.
Taught: Fall and spring
Basic applied management functions in the healthcare setting: personnel and patient scheduling; purchasing procedures; budget and quality improvement process; organization relationships and authority.

HSC 410 Healthcare Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Health Science major or consent of instructor.
Taught: Fall and spring
Role development as a health care provider with respect to patient care in the clinical setting; patient management to include scopes of practice, ethical/legal issues, patient assessment and response, managing the critical care and special needs patient, and emergency preparedness.

HSC 421 Healthcare Research (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: STA 205 or STA 212 and Health Science major or consent of instructor.
Taught: Fall and spring
Overview of the research process for health care professions; historical development of research in health care; role of research in scientific advancement of health care; development of ability to critique clinical health care studies.

HSC 430 Health Professional as Educator (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Overview of teaching and learning for the healthcare professional ethical principles, learning theories, teaching strategies, evaluation, instructional materials and technology; issues related to compliance motivation, literacy, and special populations will be discussed.

HSC 440 Issues in Chronic Disease Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Health Science major or consent of instructor.
Taught: Variable, check with department
In-depth study of various chronic diseases that impact patient care and quality of life evaluation of the economic and financial impact on the patient and the healthcare system assessment and intervention techniques.

HSC 450 Concepts of Quality Patient Care (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Health Science major or consent of instructor.
Taught: Fall and spring
Role development as a health care provider with respect to patient care in the clinical setting; patient management to include scopes of practice, ethical/legal issues, patient assessment and response, managing the critical care and special needs patient, and emergency preparedness.

HSC 480 Global Perspectives of Health Care (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisite OR Co-requisite: HSC 421 or NRS 320 and HSC 410. PREREQ: Health Science major or consent of instructor.
Taught: Spring only
Discussion and research related to current issues and problems related to health care professions.

HSC 490 Senior Seminar (1 credit)
Hours: 1 classroom + 0 lab/studio
Prerequisites: HSC 421 or NRS 421 and HSC 410.
Taught: Fall and spring
Discussion of current issues and problems related to health care professions.
HSC 494 Topics in Healthcare (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Health Science major with a minimum GPA of 2.5 or consent of instructor.
Taught: Variable, check with department
Focused study and analysis of a specific topic related to health care. May be repeated when topics vary, for a maximum of 9 semester hours.
See Schedule of Classes for specific topic.

HSC 499 Independent Study: Health Care (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Health Science major with a minimum GPA of 2.5 or consent of instructor; approved independent study proposal.
Taught: Variable, check with department
Individually supervised work involving reading, research and/or project related to health care. Topic must be selected before registration in conference with instructor; agreement to include purpose, objectives, instructional activities, time frame, and evaluation method. Not intended as substitution for any course offered on a regular basis. May be repeated for maximum of 6 credit hours.

HSC 580 Applied Healthcare Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HSC 410 or consent of instructor.
Taught: Variable, check with department
Demonstrate and apply skills in healthcare management and operations. Topics to include, but are not limited to: human resources, department finances and billing/coding, data analysis, policy development, regulatory agencies, risk management, customer service, and organizational effectiveness.

Human Services/Mental Health Courses (HSR)

HSR 100 Orientation to Human Service Professions (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
The field of human services; observing human service delivery agencies in operation; activities of workers in meeting client needs; values and attitudes of human service workers; roles and responsibilities of human service workers; concept of the generalist, concepts of human behavior and needs, and strategies and programs for meeting human needs. Formerly HSR 115.

HSR 101 Survey of the Helping Professions (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
This course will introduce students to the helping professions, exploring roles, typology and functions of various individuals involved human service delivery. This course will explore historical development and trends within the mental health discipline, including ethics, standards, credentialing, public policy, and professional organizations.

HSR 105 Helping Skills and Techniques for Human Service Professionals (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Skills involved in initiating and conducting an effective counseling relationship; models and theories of helping; establishing the counseling relationship; developing counseling responses; identifying counseling goals; implementing strategies to bring about improvement. Formerly HSR 225.

HSR 110 Activities Therapy (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Nature and use of therapeutic activities in a variety of settings; organization, content, and application of activity programs and materials for various age levels in hospitals and agencies; training in use of games, arts and crafts, music, dance, and recreation.

HSR 204 Field Experience & Seminar I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HSR 100, HSR 105, and HSR 204.
Taught: Fall and spring

HSR 205 Case Management Skills for HSR Workers (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring and summer

HSR 207 Crisis Intervention (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100 and junior standing.
Taught: Spring only
Practice oriented approach to understanding and working with individuals and families experiencing immediate crisis; dynamics of the crisis experience; recognizing the crisis situation; interviewing clients in crisis; developing and implementing coping strategies; utilizing resource and support systems; and referral.

HSR 225 Ethics and Issues in Mental Health Profession (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HSR 100, junior standing, or consent of instructor.
Taught: Fall only
Important current social, ethical, and legal issues and trends in mental health/human services; presentations by speakers having particular expertise in various issues.

HSR 230 Multicultural Issues in Human Services (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
This course prepares students to work with diverse groups of people locally and globally defined by gender, ethnicity, race, national origin, sexual orientation, income, age, religion, and other culturally relevant categories. Emphasis will be placed on defining and developing skills for culturally competent human service professionals and the helping process.

HSR 304 Field Experience and Seminar II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HSR 207.
Co-requisites: HSR 412.
Taught: Fall only
Advanced supervised work experience in a mental health/human service agency providing direct services to clients and patients; development of skills to prevent mental illness and promote mental health in group/community settings. Sixteen hours per week in the agency plus a two-hour on campus seminar.

HSR 305 Assessment and Appraisal: Mental Health and Substance Abuse (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100 and junior standing.
Taught: Spring only
Use and interpretation of assessment and appraisal instruments and procedures in mental health services, e.g., psychological, educational, functional, and environmental.

HSR 312 Crisis Intervention (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
Practice oriented approach to understanding and working with individuals and families experiencing immediate crisis; dynamics of the crisis experience; recognizing the crisis situation; interviewing clients in crisis; developing and implementing coping strategies; utilizing resource and support systems; and referral.

HSR 314 Death, Dying, and Grief (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours in behavioral and/or social sciences.
Taught: Spring only
Major topics from an interdisciplinary perspective, attitudes and practices; experience of dying and grieving; medical, legal, and ethical issues; children and death; suicide, violence, and mass death; funeral practices; caring for the dying and the survivors; speculation about an afterlife.

HSR 326 Behavior Problems of Children (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall only
Children’s most common behavioral difficulties and their treatment; major etiological, diagnostic, and treatment factors involved in psychological and physical handicaps; behavioral problems of the preschool elementary school; adolescent years.
HSR 330 Rehab & Disability Serv In Behav Health (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department

HSR 340 Alcoholism: Issues and Intervention (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
The field of alcoholism; the acquisition of knowledge, skills, and attitudes required to provide helping services to alcoholics and their families; recognition of the problem; effects, etiology, counseling, treatment, and resources. Designed primarily for alcohol workers in hospitals, industry, rehabilitation, and government and other agencies. Formerly HSR 205.alibraries, and government and other agencies.

HSR 400 Integration of Special Populations in Hu (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
This course provides a review and discussion of some of special populations that may be impacted or influenced by human services professionals. Consideration is paid to interventions that might be utilized and to how services are attained. This course is to be taken during your last academic year.

HSR 404 Field Experience and Seminar III (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HSR 304 or consent of instructor. Co-requisites: HSR 430.
Taught: Spring only
Advanced supervised work experience in a mental health/human services agency providing direct services to clients and patients; program development, management, and evaluation responsibilities and activities. Placements are arranged in settings meeting the student’s particular interests and needs. Sixteen hours per week in the agency plus a two-hour on campus seminar.

HSR 412 Leadership Skills for Small Groups (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HSR 216, junior standing, or consent of instructor.
Co-requisites: HSR 304.
Taught: Fall only
Theory and application of leadership skills in small group situations in organizational and mental health settings. Restricted to students majoring in mental health/human services.

HSR 416 Intervention Theories and Skills for Case Managers (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HSR 105 or PSY 341.
Taught: Fall only
Advanced principles and application of counseling strategies utilized to help individuals improve their mental health functioning. Course assumes student has acquired understanding and skills of basic counseling.

HSR 430 Human Services Administration (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PAD 300 or consent of instructor. Co-requisites: HSR 404.
Taught: Spring only
Skills and knowledge involved in effective development and administration of small mental health/human services programs or agencies: organizing, setting goals, and estimating needs, recruiting, selecting, orienting, supervising, and evaluating employees; securing and managing financial resources; evaluating program and majoring in mental health/human services.

HSR 431 Fundamentals of Nonprofit Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HSR 430 or Consent of instructor.
Taught: Spring and summer

HSR 494 Topics: Mental Health (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
A selected topics or issue of importance in mental health. Offered according to demand and interest of students. Maybe repeated for credit when topics vary.

HSR 499 Independent Study (1-4 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Junior standing and consent of instructor.
Taught: Variable, check with department
Directed readings, independent research, or other areas of specific or individual academic interest. Not intended to substitute for any course offered on a regular basis. Written agreement between faculty member and student must be submitted to department chair within first two weeks of semester; elements of agreement to include purpose, objective, instructional activities, time frame, and evaluation procedure.

HSR 500 Multicultural Family Work (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HSR 105 or EDU 570, or equivalent.
Taught: Summer only
Best practices of in service delivery to families of young children at risk; importance of parent worker partnerships and shared decision making in assessment, communication/intervention, and evaluation; participation in collaborative supervised assessment of one family; family centered services plan.

HSR 526 Family Centered Interventions and Prac (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing or Graduate standing.
Taught: Fall, spring, and summer
This course provides a review of theories and research on family stress, coping, resiliency, and well-being at different stages of family life and the impact of decision making on families’ quality of life. The course will involve an examination of family reactions to crises and special problems encountered in family living and community resources pertinent to such problems.

HSR 530 Substance Abuse and Process Addictions (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Declared Social Work or Human Services major, or senior or graduate student standing.
Taught: Fall and spring
This course will explore substance and “non-substance” addictions, referred to as process addictions, acquiring knowledge and skills required to provide services to those suffering from such addictions and their families. This course is an upper level course for those interested in working with addiction issues in various facilities and agencies.

HSR 547 Children and Families in Health Care (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Declared Social Work or Human Services major, or senior or graduate student standing.
Taught: Fall and spring
This course introduces the theory and practice of Child Life, demonstrating how child life specialists provide emotional care and meet the developmental needs of pediatric patients and their families.

HSR 550 Substance Abuse Asses, Diag, Treatment (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Declared Social Work or Human Services major, or senior or graduate student standing.
Taught: Fall and spring
This course will explore the field of substance abuse and addictions, acquiring knowledge, skills, and attitudes related to assessment, diagnosis, and treatment of substance abuse and addiction and their families. Course will explore pharmacology in the treatment of substance abuse disorders and related mental health disorders.
**Informatics Courses (INF)**

**INF 110 Business Programming (3 credits)**
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Strategies, techniques, and tools for professional programming in a business environment; problem definition, software design, program design, and system implementation; development of systems of programs to implement common business applications.

**INF 120 Elementary Programming - NS (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAH 099 or placement. Not open to students who have passed CSC 280 or CSC 270 or CSC 360.
Taught: Fall and spring
An elementary introduction to programming for those with no previous programming experience. Emphasis on understanding how to read and write basic procedural programs, and on understanding the concepts of algorithm and execution.

General education credit: Natural Science

**INF 128 Principles of Informatics - SB (3 credits)**
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Multi-disciplinary exploration of the nature of information; how it is represented, processed, shared, preserved, and protected. Topics drawn from the fields of computing, communication, business, the natural and social sciences, and the humanities. Identifies enduring principles; examines impacts on individuals and society; provides practice with a variety of digital technologies.

General education credit: Individual and Society

**INF 186 Media Web Coding (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: INF 101 or INF 110 or INF 120 or CIT 130 or basic computer literacy skills.
Taught: Fall and spring
In this course students will gain the basic skills and knowledge necessary to design and produce media-based websites. Students will study and utilize client-side technologies including extensible hypertext markup language (XHTML) and cascading style sheets (CSS). Students will also manage and manipulate open source web content, code and components for efficient web design and development. The course content will focus on creating accessible, interactive and media-rich web experience across multiple platforms and devices.

**INF 194 Topics: Informatics (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Various topics in Informatics.

**INF 282 Introduction to Databases (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAHD 099 (or higher).
Taught: Fall and spring
Core concepts for the design, creation, and manipulation of relational databases. Analysis of data requirements, conceptual modeling, definition of the relational model, relational database design and normalization, and database implementation; manipulation of relational databases using relational algebra with SQL.

**INF 284 Introduction to Networks and Data Communication (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 109 and one of INF 110, INF 120 or CIT 130.
Taught: Fall and spring
Introduction to computer networking; data communications; data transmission, data encoding, data link control; communications network protocols; network testing; wireless networking; network server configuration; and planning and deploying a local area network.

**INF 286 Introduction to Web Development (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 109 (or higher) and INF 110 or INF 120.
Taught: Fall and spring
An introduction to web design and development for majors in the informatics fields. Web page creation and HTML; site organization and best practices; e-business planning, models and strategies; overview of XML and CSS; introduction to client-side and server-side programming.

**INF 294 Topics: Informatics (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Various topics in Informatics.

**INF 299 Introductory Independent Study (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of Instructor.
Taught: Variable, check with department
Topic to vary based on faculty and student agreement, but will cover material appropriate for an introductory topic in informatics.

**INF 394 Advanced Independent Study (1-3 credits)**
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of Instructor.
Taught: Variable, check with department
Topic to vary based on faculty and student agreement, but will cover material appropriate for an introductory topic in informatics.

**INF 396 Intermediate Topics: Informatics (3 credits)**
Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Various topics in Informatics.

**INF 396L Applied Informatics Project (1-3 credits)**
Hours: 0 classroom + 1-3 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Projects and experiential learning work experience relating to student work assignments in the Center for Applied Informatics. Academic credits are awarded based on defined student learning objectives and coinciding work experience on a variable scale. Repeatable for up to 6 credit hours.

**INF 396L Applied Informatics Lab (1-3 credits)**
Hours: 0 classroom + 1-3 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Optional laboratory component to informatics classes; learning goals to provide students a way to apply topics and concepts studied in class to projects that they work on in the Center for Applied Informatics. Students taking INF 396L must be concurrently enrolled in an Informatics course that offers this component.

**INF 399 Independent Study (1-3 credits)**
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of Instructor.
Taught: Variable, check with department
Topic to vary based on faculty and student agreement, but will cover material appropriate for an introductory topic in informatics.

**INF 494 Advanced Topics: Informatics (1-3 credits)**
Hours: 1-3 Classroom + 0 lab/studio
Prerequisites: Varies with topic.
Taught: Variable, check with department
Special topics course in Informatics directed by an Informatics faculty member.

**INF 498 Advanced Independent Study (1-3 credits)**
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of Instructor.
Taught: Variable, check with department
Topic to vary based on faculty and student agreement, but will cover material appropriate for an introductory topic in informatics.
Integrative Studies Courses (IST)

IST 185 Introduction to Integrative Studies - SB (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Fall and spring
An orientation to interdisciplinary thinking, this course is designed to encourage students to become self-aware holistic consumers of knowledge and to see the interdependent aspects of all academic disciplines. Students will be guided through an exploration of what the academy has to offer and encouraged to consider how those opportunities match with their personalities, interests, and ambitions.

General education credit: Individual and Society

IST 201 Intermediate Italian I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ITA 101 or equivalent.
Taught: Fall only
Review and extension of basic language skills acquired in ITA 101 and 102; reading and discussion of cultural and literary subjects.

IST 202 Intermediate Italian II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ITA 201 or equivalent.
Taught: Spring only
Continuation of grammar review and enhancement of language skills begun in ITA 201; reading and discussion of cultural and literary subjects.

Journalism Courses (JOU)

JOU 110 Introduction to Mass Communication - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Examine how mass media operate, how people use and create media messages, and how media evolve and influence behavior.

General education credit: Individual and Society

JOU 220 News Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in ENG 101 or equivalent.
Taught: Fall and spring
Write news stories that engage various audiences. Practice interviewing and reporting. Develop a sense of news values.

JOU 230 News Reporting and Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JOU 220.
Taught: Fall and spring
Research and report original news stories suitable for publication in various media.

JOU 265 Broadcast News Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JOU/EMB 110 and JOU 220.
Taught: Variable, check with department
Principles and practices of writing and editing news for the electronic media; development of an effective broadcasting style, conciseness, and accuracy for hard news and features; basic reporting and interviewing techniques, electronic news gathering, rewriting, editing, and compiling.

JOU 296 News Media Workshop (1-3 credits)
Hours: 0 classroom + 4-12 lab/studio
Prerequisites: JOU 220.
Taught: Fall and spring
Gain on-campus practical experience in producing news content for media outlets on deadline. Develop and refine news story ideas. Create
concise focus statements and pitch stories. Interview, write, edit, take news photos and produce video or audio to create story packages. 1-3 credits, with default at 3.

**JOU 321 Digital Publishing (3 credits)**
- Hours: 2 classroom + 3 lab/studio
- Prerequisites: JOU 110 or EMB 100.
- Taught: Fall and spring
- Design and produce publications using professional tools. Examine principles of typography, graphics and design in communication.

**JOU 325 Photojournalism (3 credits)**
- Hours: 3 classroom + 0 lab/studio
- Prerequisites: JOU 110 or EMB 100.
- Taught: Spring only
- Study fundamentals of photography, use of digital cameras, photo editing, and use of photography in a variety of media to tell stories.

**JOU 330 Public Affairs Reporting (3 credits)**
- Hours: 2 classroom + 2 lab/studio
- Prerequisites: JOU 230.
- Taught: Spring only-even yrs
- Investigative reporting on agencies, governments and entities, such as courts, non-profit organizations, health departments and businesses, which maintain public records.

**JOU 331 Specialty Reporting (3 credits)**
- Hours: 3 classroom + 0 lab/studio
- Prerequisites: JOU 220.
- Taught: Variable, check with department
- Report on beats such as business, education, environment, health, sports, or technology. Topics vary semester to semester.

**JOU 340 Feature Writing (3 credits)**
- Hours: 2 classroom + 2 lab/studio
- Prerequisites: JOU 220 or permission of instructor.
- Taught: Fall only
- Develop creative nonfiction stories suitable for publication in magazines, online sites, newspapers, newsletters, and trade journals. Course covers every step of the entrepreneurial process, from developing ideas, to researching, reporting, writing, producing and marketing.

**JOU 346 Copy Editing and Design (3 credits)**
- Hours: 2 classroom + 2 lab/studio
- Prerequisites: JOU 220.
- Taught: Spring only
- Edit text and design pages to achieve clear, concise and compelling content. Improve communication by learning the proper use of grammar, spelling, punctuation and style.

**JOU 370 Principles of Advertising (3 credits)**
- Hours: 2 classroom + 2 lab/studio
- Prerequisites: JOU/EMB 110.
- Taught: Fall only
- Processes and practices of advertising, conception, organization, market research, copy writing, ad layout and production, media selection and scheduling, and assessment of impact.

**JOU 394 Special Topics in Journalism (3 credits)**
- Hours: 3 classroom + 0 lab/studio
- Prerequisites: JOU 110 or junior standing.
- Taught: Variable, check with department
- Examine significant topics in journalism and mass media. Topics vary semester to semester. May be repeated once for credit.

**JOU 396 Internship (3 credits)**
- Hours: 0 classroom + 12 lab/studio
- Prerequisites: JOU 296; written consent of instructor.
- Taught: Fall only
- Work at newspapers, online sites, public relations or advertising agencies, or other employers of communication professionals, in addition to some class meetings.

**JOU 397 Advanced News Media Workshop (1-3 credits)**
- Hours: 0 classroom + 1-3 lab/studio
- Prerequisites: JOU 296.
- Taught: Fall and spring
- Expand understanding of concepts and skills learned in JOU 296. Gain on- campus practical experience in producing more complex and diverse news content for media outlets on deadline. Explore advanced journalism techniques, such as investigative reporting and series writing. Experiment with narrative devices. 1-3 credits, with default at 3.

**JOU 411 Mass Communication History (3 credits)**
- Hours: 3 classroom + 0 lab/studio
- Prerequisites: JOU 110 or junior standing.
- Taught: Spring only-odd yrs
- Explore social, political, economic and technological factors that have affected the evolution of U.S. media.

**JOU 412 Mass Communication History (3 credits)**
- Hours: 3 classroom + 0 lab/studio
- Prerequisites: JOU 110, EMB 100 or junior standing.
- Taught: Fall and spring
- Evaluate issues facing media practitioners. Develop ethical reasoning through analysis and application of standards and practices in media-related professions.

**JOU 420 Principles of Advertising (3 credits)**
- Hours: 3 classroom + 0 lab/studio
- Prerequisites: JOU 220 or permission of instructor.
- Taught: Fall and spring
- Introduction to multimedia journalism; use and study of contemporary tools for information gathering, reporting and interacting with audiences.

**JOU 421 Mass Communication Research Methods (3 credits)**
- Hours: 3 classroom + 0 lab/studio
- Prerequisites: JOU 220 or CMST 220.
- Taught: Fall and spring
- Methods of conducting, interpreting, and reporting research relating to mass communications, mass media, public relations, and advertising.

**JOU 425 Study Abroad (1-3 credits)**
- Hours: 1 classroom + 3 lab/studio
- Prerequisites: Varies by topic.
- Taught: Variable, check with department
- Varies by topic. Course includes a classroom portion and a trip abroad.

**JOU 430 Independent Study: Journalism (1-3 credits)**
- Hours: 0 classroom + 4 -12 lab/studio
- Prerequisites: junior standing; a GPA of at least 2.50 or consent of instructor; approved independent study proposal.
- Taught: Variable, check with department
- Individually supervised work involving reading, research, and/or production in a specified area of interest. Topic selected before registration in conference with instructor. May be repeated for a maximum of 6 semester hours.

**Japanese Courses (JPN)**

**JPN 101 Elementary Japanese I - AH (3 credits)**
- Hours: 3 classroom + 0 lab/studio
- Taught: Fall and spring
- Fundamentals; introduction to Japanese culture; basic skills in pronunciation, conversation, vocabulary, grammar, kana syllabary writing system.

General education credit: Culture and Creativity
JPN 102 Elementary Japanese II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JPN 101 or equivalent.
Taught: Fall and spring
Continuation of JPN 101. Further command of grammar and expansion of vocabulary in conversational Japanese; introduction of additional Chinese characters for reading comprehension and writing.

JPN 201 Intermediate Japanese I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JPN 102 or equivalent.
Taught: Fall only
Review of pronunciation, vocabulary, grammar and syllabary writing system introduced in JPN 101-102; introduction of advanced structural patterns and cultural influences of the language.

JPN 202 Intermediate Japanese II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JPN 201 or equivalent.
Taught: Spring only
Continuation of JPN 201; additional practice in language structural patterns and cultural influences.

JPN 304 Japanese Composition and Conversation (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JPN 202 or equivalent.
Taught: Variable, check with department
Advanced practice in writing Japanese compositions and oral conversation skills.

JPN 311 Japanese Cultural History (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JPN 202 or equivalent.
Taught: Variable, check with department
Eras, institutions, and issues in the history of Japan; readings primarily in Japanese.

JPN 325 Japanese Myth and Folklore (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JPN 202 or equivalent.
Taught: Variable, check with department

JPN 340 Business Japanese (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JPN 202 or equivalent.
Taught: Variable, check with department
Study of language for broad commercial purposes; cultural awareness in both social and professional situations; historic and contemporary views of government, labor, media, and industrial organization in Japan; business correspondence; Japanese-American relations.

JPN 350 Methods of Teaching Japanese (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JPN 202 or equivalent.
Taught: Variable, check with department
Theoretical and practical considerations of teaching Japanese in American schools; required of all students seeking teaching certification in Japanese.

JPN 380 Topics in Advanced Japanese (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JPN 202 or consent of instructor.
Taught: Variable, check with department
Advanced study of Japanese language, literature, and culture. May be repeated for credit.

JPN 401 Japanese Phonetics and Pronunciation (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of Japanese at the 300 level or above.
Taught: Variable, check with department
Study of Japanese sound system, how sounds are produced, which ones are used in Japanese, and in what contexts they occur.

JPN 402 Advanced Japanese Grammar and Syntax (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of Japanese at the 300 level or above.
Taught: Variable, check with department
Study of Japanese grammar through analysis of key linguistic structures and applied practice. Analysis of word formation, sentence structure, and semantics.

JPN 499 Independent Study: Japanese (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Readings in language, literature and culture.

JPN 520 Readings in Japanese (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JPN 380 or equivalent.
Taught: Variable, check with department
Various literary, linguistic, cultural, and pedagogical topics. May be repeated for credit when topic varies.

Criminal Justice Courses (JUS)

JUS 101 Introduction to Criminal Justice - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
This course provides an overview of the criminal justice system; organization and operation of police, courts, and corrections; race, ethnicity, gender, and criminal justice decision-making, current trends and future prospects.

General education credit: Individual and Society

JUS 200 Police in America (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Philosophy and history of law enforcement; crime and police problems; organization and jurisdiction of local, state, and federal law enforcement agencies; professional career opportunities and qualifications.

JUS 201 Corrections in America (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
An interdisciplinary examination of all areas of corrections in the United States informed by law, psychology, sociology, and public policy. Topics explored include history and philosophy of punishment, prisons and jails, institution programming, management of various offender populations, incarceration trends, intermediate sanctions, and parole.

JUS 203 The Criminal Court Systems (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Analysis of the American courts; structure, functions, and roles of incumbents in the courts; emphasis on political and economic contexts within which the court works. Includes survey of research on American legal system.

JUS 204 Criminal Investigation (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Kinds, degrees, and admissibility of evidence; collection and handling of evidence; introduction to forensics and criminalistics; application of investigative techniques to specific offenses; types of investigations such as wire tapping, undercover, and sting operations; current trends and future prospects.

JUS 205 Criminal Evidence (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101.
Taught: Fall only
Description and analysis of various evidentiary rules that impact on police investigations and case presentations including admissibility and weight of evidence, hearsay, privileged communications, presumptions and proof, eyewitness identification, opinion and expert testimony, evidence unconstitutionally obtained.

JUS 210 Legal Research (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Methods of research in establishing authoritative legal opinion and the processing of legal activities.
JUS 231 Race, Gender and Crime - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Political formulation of race and gender; race and gender issues related to criminality, victimization, prosecution; adjudication, sanctions, and employment within the legal system; antecedents of contemporary practice; prospects for change.

General education credit: Global Viewpoints

JUS 294 Topics: Justice Studies (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101.
Taught: Variable, check with department
Intensive study of a specific or special issue in law enforcement or criminal justice conducted in a seminar fashion or through independent study. Topics vary as new issues arise.

JUS 301 Ethics in Criminal Justice (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Fall and spring
Examines the concepts of morality and law and their relationships especially the ethical underpinnings of justice and the law. Analyzes the nature of ethics as it bears on social problems and the law, including philosophical analysis and theories of ethics and are encouraged to view society and the law philosophically.

JUS 302 Criminal Law (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Fall only
Major crimes; classification, elements of proof, intent, conspiracy, responsibility, parties, and defenses; common law and adaptations.

JUS 303 Criminal Procedure (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Spring only
Leading constitutional cases on criminal justice; Fourth, Fifth, and Sixth amendments to the Federal Constitution; nature and application of the Bill of Rights to the states; search and seizure, confessions and admissions, and right to counsel and speedy trial.

JUS 310 Police Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Fall only
Organization and administration as applied to operational services, patrol, criminal investigation intelligence and vice units, juvenile units, and traffic administration.

JUS 311 Police in the Community (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Spring only
Collaboration between police and community to identify and solve community crime problems; strategies and procedures to incorporate community opinion into policing and management; methods of increasing community responsibility in law enforcement.

JUS 312 Institutional Corrections (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Fall only
Legal requirements, management issues, and proper procedures in administering correctional operations in the U.S.

JUS 313 Rights of the Convicted (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Fall only
Overview of the American correctional system; law of sentencing; corrections; constitutional rights of prisoners; laws, cases, significant changes in judicial policy toward prison litigation; legislative trends toward curtailment of prisoner's rights and benefits.

JUS 315 Criminal Justice Research Methods (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101, STA 205 and sophomore standing.
Taught: Fall and spring
Application of basic research methodologies for criminal justice. Topics include research design, sampling, validity, reliability, experimental designs, with a primary emphasis on survey and evaluation research techniques.

JUS 317 Perspectives on Crime (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 291, STA 205 and sophomore standing.
Taught: Fall and spring
A multidisciplinary approach to understanding the theories, issues and traditions underlying criminal justice and criminal behavior, biological, psychological, economic, and sociological theories of crime; crime measurement.

JUS 319 Criminal Justice in Film (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Variable, check with department
The media play important roles in shaping public perceptions of criminals and criminal justice professionals as well as public attitudes towards crime, violence, and “appropriate” methods of social control. This course is intended to enhance awareness and understanding of accurate and inaccurate filmic depictions of criminal justice.

JUS 320 Advanced Crime Scene Technology and Criminalistics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Fall only
Advanced criminal investigation techniques focusing on criminal profiling, DNA, forensic aspects of firearms examination, arson and explosives, illicit drugs and toxicology. Investigating violent deaths, sexual crimes and ritualistic crimes including autopsy/coroner investigations. Bloodstain pattern interpretation, forensic pathology and forensic psychology will also be addressed.

JUS 333 Careers in Criminal Justice (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Variable, check with department
Overview of various career options and career planning in criminal justice.

JUS 351 Financial Investigations (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Spring only
An examination of the history, scope, and method of control of organized and white collar crime. Cultural and social implications are explored.

JUS 395 Criminal Justice: Study Abroad (1-15 credits)
Hours: 1-15 classroom + 0 lab/studio
Taught: Spring only
This course will explore the history, philosophy, and current practices of criminal justice in the other countries. Students will gain an appreciation and understanding of the history and administration of criminal justice in a global context. Including but not limited to, transnational crime, law enforcement, judiciary, and correctional options in the country of study. The course may include face to face and/or online classroom engagement and a mandatory study abroad component. The study abroad component may include travels to the United Kingdom, Europe, Africa, and Central or South America. Program permission is required. May be repeated for credit when topics vary.

JUS 400 Juvenile Justice (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Fall only
Structure and format of the juvenile justice system; police, courts, and corrections; analysis and description of the organizational structure of each of the subsystems of the justice process; introduction to juvenile justice research findings.
JUS 402 Alternatives to Incarceration (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Fall only
A multidisciplinary approach to studying alternatives to incarceration. The history of probation, parole, and the emergence of intermediate sanctions are explored. Topics include boot camps, electronic monitoring, drug courts, halfway houses, intensive supervision. Finally, empirical research evaluating the effectiveness of these alternatives will be discussed.

JUS 403 Crime and Public Policy (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Spring only
Crime as a political issue, political ideology and response to crime, lawbreaking as political protest and political violence; political trials; legislation or morality.

JUS 404 Evidence Preparation and Courtroom Testimony (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Spring only
Criminal justice professional’s role in collection, analysis, and preparation of evidence for criminal trials and hearings; establishing witness credibility in hearings, trials, depositions; knowledge of federal and state laws, and court decisions governing expert witness status; presenting evidence and testimony at criminal hearings.

JUS 405 Crime Prevention (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Fall only
This course overviews methods of crime prevention (approaches outside the confines of the CJS). Theory and research related to neighborhood, school, and other situational efforts of crime prevention are explored providing an understanding of the objectives and effectiveness of various crime prevention strategies.

JUS 408 Victims and Crime (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Fall only
Examines crime victims from the theoretical perspective to the delivery of services. Foundation information includes victim data sources, crime victims’ rights and victim typologies. Student explore victim service agencies, including volunteer, internship and employment opportunities in the public and non-profit sector.

JUS 428 Crime Across the Life Course (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Spring only
The life course paradigm includes examination of sociology, psychology, and behavioral genetics to investigate the initiation, escalation, duration, and termination of the criminal career. The importance of genetics and biology, abuse in infancy and childhood, the role of parents and peers in adolescence, and the causes of deescalation will be discussed in examining the offending trajectory and turning points of criminals.

JUS 429 Women in Criminal Justice (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Fall only
This course will address women in the criminal justice system. Topics covered include: explanation of patriarchy and feminist theories, history of and women as employees in the criminal justice system, female crime theories, female crime and victimization, the response to their crime and victimization by the criminal justice system including programs intended to prevent violence and treat victims and offenders of crime.

JUS 494 Seminar: Justice Studies (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JUS 101 and sophomore standing.
Taught: Variable, check with department
Intensive study of a specific topic or issue in criminal justice. Topics vary as new issues arise. May be repeated when topics vary.

JUS 496 Internship: Justice Studies (1-16 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: JUS 101; sophomore standing; 3 additional semester hours of justice studies coursework; and consent of intern coordinator.
Taught: Fall and spring
Supervised field-work in one of four areas: (1) law enforcement, (2) courts and law, (3) corrections, or (4) support services. Offered on a pass/fail basis.

JUS 499 Readings: Justice Studies (1-3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: JUS 101; sophomore standing; 3 additional semester hours of justice studies coursework.
Taught: Variable, check with department
Specialized reading or primary research interests completed through independent study at the direction of a specific instructor. May be repeated as projects vary. A maximum of six hours can be used towards the major or minor in criminal justice.

Kinesiology Courses (KIN)

KIN 125 Introduction to Physical Education, Fitness, and Sport (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Overview of the profession; philosophy, history, and scientific areas; examination of career opportunities.

KIN 200 Concepts of Lifetime Fitness (2 credits)
Hours: 2 classroom + 0 lab/studio
Taught: Fall, spring, and summer
Health related problems associated with a modern sedentary society; benefits of regular exercise, individual psychomotor and physiological developmental patterns.

KIN 205 Introduction to Personal Training (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: KIN 200, BIO 208.
Taught: Variable, check with department
This course is designed to provide theoretical knowledge and practical skills in preparation for a national certification exam in personal training. Topics include guidelines for instructing safe, effective, and purposeful exercise, essentials of the client-trainer relationship, conducting health and fitness assessments, and designing and implementing appropriate exercise programming.

KIN 260 Introduction to Strength and Conditioning (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
This course is designed to provide theoretical knowledge and practical skills in exercise science, strength training and aerobic conditioning. Topics include guidelines for instructing safe, effective, and purposeful exercise, essentials of the client-trainer relationship, conducting health and fitness assessments, and designing and implementing appropriate exercise programming.

KIN 280 Basic Recognition and Care of Athletic Injuries (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
An introduction to athletic training/sports medicine concepts. Course content will include basic skills for prevention, assessment, and care of injuries associated with physical activity.

KIN 295 Anatomical Kinesiology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: KIN 260.
Taught: Spring only
This course is a directed study of human anatomy with its adaptations to biomechanical principles. In-depth study of the skeletal and articulation system and the muscular and nervous systems along with other key anatomical structures and functions.
KIN 313 Computer Applications for Health and Kinesiology (2 credits)
Hours: 2 classroom + 0 lab/studio
Taught: Fall only
The study and applications of technology and software that are used in the health/ wellness promotion, fitness, physical education, and exercise science professions.

KIN 320 Motor Learning and Performance (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: KIN 125 and BIO 208.
Taught: Fall and spring
This course is designed to examine the principles of motor learning by examining the physiological, psychological, and neuromotor factors that affect the acquisition and performance of motor skills.

KIN 330 Motor Development (3 credits)
Hours: 3 classroom + 1 lab/studio
Prerequisites: Junior standing.
Taught: Fall and spring
Motor development from birth through maturity; factors influencing the development and performance of motor skills; application of assessment and intervention strategies to improve motor performance for preschoolers through the elderly. Includes 5-7 hours of an on-campus intervention clinical experience with preschool children.

KIN 340 Exercise Physiology (3 credits)
Hours: 3 classroom + 1 lab/studio
Prerequisites: BIO 208.
Co-requisites: KIN 340L.
Taught: Fall and spring
Response of the body to muscular activity; structure and function of skeletal muscles; energy sources and oxygen requirements for muscular activity.

KIN 340L Exercise Physiology Lab (1 credit)
Hours: 0 classroom + 2 lab/studio
Prerequisites: BIO 208.
Co-requisites: KIN 340.
Taught: Fall and spring
KIN 340L is designed to provide hands on laboratory experience for KIN 340 lecture. Common laboratory procedures covered in this course are: VO2max, Wingate anaerobic testing, blood lactate testing, blood hematocrit, body composition, ECG, and EMG.

KIN 342 Introduction to Health Appraisal and Fitness Assessment (2 credits)
Hours: 1 classroom + 2 lab/studio
Prerequisites: KIN 200 and KIN 205.
Taught: Variable, check with department
The purpose of this course is to teach the students the theory and practice for developing skills in assessing health-related physical fitness and provide guidelines for standard step-by-step assessment procedures.

KIN 345 Physical Activity and Aging (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: KIN 340 or permission of instructor.
Taught: Variable, check with department
The purpose of this course is to examine the physical dimensions of older adults. This will include basic Concepts of the aging adult; energy work and efficiency; motor control, coordination and skill; physical-psycho-social relationships; and, physical performance and achievement.

KIN 349 Exercise Prescription (4 credits)
Hours: 3 classroom + 2 lab/studio
Prerequisites: KIN 340.
Taught: Spring only
Principles and applications for prescribing exercise and physical activities for a variety of populations to improve health-related physical fitness and/or athletic performance.

KIN 350 Psychology of Physical Activity (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: KIN 200, PSY 100.
Taught: Spring only
This course focuses on the evidence-based literature which describes populations that are and are not physically active; research based theories that explain reasons that people are and are not physically active; successful motivational strategies; and the evaluation and applications of interventions designed to change inactive behavior or to sustain physically active behavior.

KIN 355 Exercise Prescription and Programming for Special Populations (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: KIN 340.
Taught: Fall only
This course examines basic epidemiology, ecology and pathophysiology of common disease states, and provides recommendations for exercise and concerns for diseased and other special populations requiring alterations to exercise prescription for normal populations.

KIN 360 Statistics and Measurement in Kinesiology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MAT 099 or acceptable placement score.
Taught: Fall and spring
Designed to provide knowledge and practical experience in the study of statistical techniques, motor ability tests, motor fitness tests, physical fitness tests, and skill tests applicable to physical education.

KIN 365 Exercise Prescription and Programming for Special Populations (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: KIN 349.
Taught: Fall only
This course examines basic epidemiology, ecology and pathophysiology of common disease states, and provides recommendations for exercise and concerns for diseased and other special populations requiring alterations to exercise prescription for normal populations.

KIN 370 Biomechanics (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: BIO 208.
Taught: Fall and spring
Mechanics of human motion with respect to performance in sport activities and movement analysis.

KIN 380 Clinical Exercise Physiology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: KIN 340.
Taught: Spring only
This course is designed to prepare the Exercise Science major to work within a human performance clinical setting. This course will cover the basic epidemiology and pathophysiology of common disease states, recommendations for exercise and concerns for rehabilitation and secondary prevention.

KIN 385 Sociological and Psychological Dimensions of Sport and Physical Activity (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: KIN 125.
Taught: Spring only
Introduction to social psychological theory and principles applied to sports; analysis of sport from a sociological perspective through study of values, norms, and behavior of sport in American society.

KIN 450 Organization and Administration of Kinesiology and Athletics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: KIN 125 or permission of instructor.
Taught: Fall only
Theory, policies, and procedures for administering physical education, recreation, and athletic programs in the school and community; program development, budgeting, equipment, facilities, personnel.

KIN 481 Nutrition for Sport and Exercise (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: KIN 340.
Taught: Fall and spring
This course is designed to provide an overview of basic nutritional concepts for sports and exercise. Topics covered in this class include nutrient requirements for sport performance, exercise and weight management. The use and physiological effects of ergogenic aids will also be covered in this course.

KIN 483 Advanced Strength and Conditioning (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: KIN 280, KIN 340, KIN 370, senior standing or permission from instructor.
Taught: Fall and spring
This course is designed to provide advanced knowledge and application in the field of strength
and conditioning. The material presented will prepare the student for the National Strength and Conditioning Association’s Certified Strength and Conditioning Specialist (CSCS) certification. Topics to be covered include basic science, advanced exercise prescription, advanced strength and conditioning programming, and will require the student to be proficient in various exercise techniques.

**KIN 492 Practicum in Exercise Science (3 credits)**

*Hours: 0 classroom + 6 lab/studio*
*Prerequisites: KIN 349*
*Taught: Fall and spring*

Application of theory to practice by assisting in various activities associated with the field of exercise science (i.e., fitness instruction, weight management, strength and conditioning, sports medicine, wellness, nutrition, etc.)

**KIN 494 Topics: Kinesiology (1-6 credits)**

*Hours: 1-6 classroom + 0 lab/studio*
*Prerequisites: Varies with topic (see Schedule of Classes)*
*Taught: Variable, check with department*

Various advanced topics in kinesiology.

**KIN 496 Internship in Exercise Science (9 credits)**

*Hours: 0 classroom + 9 lab/studio*
*Prerequisites: Senior standing, departmental consent, KIN 492, appropriate GPA.*
*Taught: Fall and spring*

One of two possible culminating activities for students completing the BS in exercise science. Students spend the equivalent of full-time employment in an appropriate agency for one full semester (at least 500 hours).

**KIN 497 Exercise Science Senior Synthesis (3 credits)**

*Hours: 0 classroom + 6 lab/studio*
*Prerequisites: Department approval, KIN 360 and KIN 498.*
*Taught: Variable, check with department*

This course is designed to prepare Exercise Science majors for employment in a human performance research setting, and/or entering a graduate program in an exercise science domain. Emphasis will be placed on experience in conducting human performance research, and scientifically communicating the results of the research in the form of a manuscript ready for peer review.

**KIN 498 Research, Trends, and Issues in Exercise Science (2 credits)**

*Hours: 2 classroom + 0 lab/studio*
*Prerequisites: KIN 340, KIN 360 and KIN 370 or permission of instructor.*
*Taught: Fall only*

This course will focus on an introduction to the various techniques of research in exercise science. The course will expose the student to the basic concepts of exercise science research via the production of a research paper and other assigned tasks. Emphasis will be placed on the skills necessary to allow the student to become an improved consumer of research in the field of exercise science.

**KIN 499 Independent Study in Exercise Science (1-6 credits)**

*Hours: 1-6 classroom + 0 lab studio*
*Prerequisites: Consent of Department.
*Taught: Variable, check with department*

Directed readings, independent research, or other areas of specific or individual academic interest. Not intended to substitute for any course offered on a regular basis. Written agreement between faculty and student must be submitted to department chair within first two weeks of semester; elements of agreement to include purpose, objective, instructional activities, time frame, and evaluation procedure.

### Korean Courses (KOR)

**KOR 101 Elementary Korean I - AH (3 credits)**

*Hours: 3 classroom + 0 lab/studio*
*Taught: Variable, check with department*

Introduction to Korean culture; basic skills in pronunciation, conversation, reading, and writing.

**KOR 102 Intermediate Korean I (3 credits)**

*Hours: 0 classroom + 3 lab/studio*
*Prerequisites: KOR 101 or equivalent*
*Taught: Variable, check with department*

Continuation of KOR 101 additional practice in pronunciation, conversation, reading and writing.

### Korean Courses (KOR)

**KOR 101 Elementary Korean I - AH (3 credits)**

*Hours: 3 classroom + 0 lab/studio*
*Taught: Variable, check with department*

Introduction to Korean culture; basic skills in pronunciation, conversation, reading, and writing.

**KOR 102 Intermediate Korean I (3 credits)**

*Hours: 0 classroom + 3 lab/studio*
*Prerequisites: KOR 101 or equivalent*
*Taught: Variable, check with department*

Continuation of KOR 101 additional practice in pronunciation, conversation, reading and writing.

### Learning Assistance Program Courses (LAP)

**LAP 201 Tutoring in Learning Assistance Center (1 credit)**

*Hours: 1 classroom + 0 lab/studio*
*Taught: Fall and spring*

Topics in peer tutoring and mentoring, with an emphasis on the university environment. Topics vary. Designed for students interested in peer tutoring and mentoring at NKU, as well as prospective teachers. Recommended for students who work as tutors in Learning Assistance Programs. May be repeated for a maximum of 3 semester hours.

### Latin Courses (LAT)

**LAT 101 Elementary Latin I (3 credits)**

*Hours: 3 classroom + 0 lab/studio*
*Taught: Fall only*

Fundamentals; introduction to Latin language and Roman culture; study of literary, legal, and scientific terminology rooted in Latin; development of skills in grammar, pronunciation, reading, writing, and simple conversation in classical Latin.

**LAT 102 Elementary Latin II (3 credits)**

*Hours: 3 classroom + 0 lab/studio*
*Prerequisites: LAT 101 or equivalent.*
*Taught: Spring only*

Continuation of LAT 101.

**LAT 201 Intermediate Latin I (3 credits)**

*Hours: 3 classroom + 0 lab/studio*
*Prerequisites: LAT 102 or equivalent.*
*Taught: Variable, check with department*

Review of grammar and vocabulary in LAT 101-102; introduction of advanced constructions in context of readings and cultural study.

**LAT 202 Intermediate Latin II (3 credits)**

*Hours: 0 classroom + 3 lab/studio*
*Prerequisites: LAT 201 or equivalent.*
*Taught: Variable, check with department*

Continuation of LAT 201; practice with advanced grammatical constructions and translation of literary selections.

### Organizational Leadership Courses (LDR)

**LDR 117 Introduction to Supervision (3 credits)**

*Hours: 3 classroom + 0 lab/studio*
*Taught: Fall, spring, and summer*

Functions of supervision: planning, organizing, directing, staffing, controlling, and delegating.

**LDR 160 Leadership Around the World - AH (3 credits)**

*Hours: 3 classroom + 0 lab/studio*
*Taught: Variable, check with department*

This course will explore the basic theories, trends, and practices for leadership from varying global perspectives. Leadership theories are often taught from a Western perspective. This course discusses these historical Western perspectives, while also introducing students to how leadership is viewed and practiced around the world.

**LDR 205 Human Relations in Organizations (3 credits)**

*Hours: 3 classroom + 0 lab/studio*
*Taught: Fall, spring, and summer*

This course develops interpersonal human relations skills for personal and professional growth. Skills will be built in networking, diversity appreciation, structuring values, conflict resolution, motivation, and personal and group communications.
LDR 300 Foundations of Leadership (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore Standing.
Taught: Fall, spring, and summer
This course introduces the fundamental concepts and foundational theories of leadership to facilitate the development of a personal understanding of the nature of leadership. The evolution of leadership theory and research is explored and its implications for understanding leadership as a phenomenon and the practice of leadership. Course encourages the application of learning to analysis of practical leadership problems and examples of leaders from diverse sectors such as business, nonprofit, government, social change, military, science, popular culture, and athletics.

LDR 308 Leadership Development (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Fall, spring, and summer
This course focuses on the concepts and skills for developing the leader in a total quality culture. The role of the leader as a mentor will be explored, as well as developing and maintaining empowered followers. Special focus will be put on effective communication systems, decision-making, vision and mission statements, process leadership, time and stress management in organizations, and valuing diversity.

LDR 310 Research Methods in Leadership (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Fall, spring, and summer
This course focuses on the exploration of theoretical and empirical concepts of research design and analysis for the field of leadership. Through the study of qualitative, quantitative, and mixed methodologies, students learn to identify and interpret quality research. Students explore current and emergent research in their area of interest and fully analyze this research. Specific focus is placed on scholarly writing and communication and developing critical analysis and thinking skills enabling students to become good consumers of social science research.

LDR 315 Leading People in Organizations (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
This course discusses the core to every organization—its people. The interface between humans and organizations is discussed, with specific focus on attracting, developing, and retaining organizational members with competencies for success in global, virtual, and innovative organizations. The leader’s role in championing continuous learning and development, forming psychological contracts, rewarding organizational contributions, and protecting health and safety is examined; in addition to strategies for meeting these objectives. Particular focus will be placed on the ethical and legal responsibilities related to the interface between an organization and its members.

LDR 381 Organizational Ethics and Decision Making (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Fall, spring, and summer
This course encourages analysis of the fundamental role of ethics in leadership and decision making. The ethical challenges confronted by leaders and the influence of personal values are examined. The course emphasizes personal ethical development including self-awareness, ethical decision making skills, and understanding diverse perspectives and group decision making.

LDR 382 Organizational Theory and Change (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Fall, spring, and summer
Contemporary theory on the leadership of organizational change, including best practices for implementing change, and assuring that change will be successful.

LDR 385 Teamwork in Organizations (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Fall, spring, and summer
This course focuses on the dynamics of teamwork. Roles and qualities of team leaders and team players will be discussed, along with attributes and behavior of teams. Special focus will be placed on problem solving in a team environment, diverse teams, and virtual teamwork.

LDR 394 Special Topics in Leadership (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Fall, spring, and summer
Specialized topics of current interest to students of leadership and the organizational leadership community. Topics for current offerings are listed in the Schedule of Classes. May repeat up to 12 hours if topics differ.

LDR 396 Leadership Practicum (1-6 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Restricted to Organizational Leadership Majors and Department permission required.
Taught: Fall, spring, and summer
Supervised application-based work experience related to the Leadership major. Educational component coordinated among organization, student, and faculty. Minimum of 20 hours on the job per week for three credit hours. Variable credit hours from one to six; can repeat for a total of up to nine credits.

LDR 399 Independent Study: Organizational Leadership (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Variable, check with department
This course will explore leading in both diverse and global environments. Students will gain appreciation for the importance of understanding both domestic diversity and global experiences and viewpoints. This course looks at the multitudes of issues involved in leading in these dynamic contexts by examining concepts such as race, ethnicity, sexual orientation, class, ability, gender, identity, prejudice and privilege, worldview, and holism. Upon completion of this course, students will understand issues of intercultural leadership and communication and build their capacities and skills for leading in diverse and global contexts.

LDR 480 Organizational Leadership Capstone (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing; restricted to Organizational Leadership majors.
Taught: Fall, spring, and summer
This course is the culminating learning experience for the organizational leadership program. Students investigate and analyze current trends and research in leadership and organizational dynamics to refine their understanding of leadership for today’s organizations and to prepare to adapt for the future. Critical and creative thinking skills will be emphasized, in addition to lifelong learning and development for leaders and the role of learning, creativity, innovation, and change in the development and sustainability of organizations.
LDR 495 Study Abroad in Org Leadership (1-15 credits)
Hours: 1-15 classroom + 0 lab/studio
Taught: Variable, check with department
An opportunity for students to engage in one or more officially-sponsored and/or program-approved Organizational Leadership courses abroad, ranging from one week to an entire semester. Program permission is required. May be repeated for credit when topics vary.

Library Informatics Courses (LIN)

LIN 175 Information Literacy (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
A foundational course that introduces students to the cross-disciplinary skills needed to assess information needs, and access and evaluate information sources.

General education credit: Individual and Society

LIN 300 Information in Our Society (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Students will learn about the impact of culture and other social differences on individual use of information and the theories of learning and information use. Our information society will be examined and how information is created, recorded, mass produced, disseminated, and used by individuals and groups.

LIN 301 Introduction to Meta Information System (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: INF 282
Taught: Variable, check with department
Students will examine and become familiar with content identification systems used to manage large information databases. Classic as well as innovative systems will be studied.

LIN 302 Digital Searching Interfaces (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Students will study all aspects of digital searching interfaces as they relate to information management and user needs. Special emphasis will be placed on library searching techniques.

LIN 303 Critical Reading (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
This course will teach the importance of critical reading in assessing information and its sources. Topics such as the authority, motivation and intent of the author will be examined.

LIN 305 Government Information (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
An in-depth study of publications produced by the United States Government. Students will learn to search and navigate government websites.

LIN 394 Topics (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Special study of one aspect of information use and management. The course topics offered will vary based upon emerging developments in the field or the availability of an authority to offer a specialized educational opportunity to Library Informatics students.

LIN 400 Current Trends in Information Studies (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Students will engage in an investigation of recent developments and trends within information organizations as well as societal issues affecting information systems and services.

LIN 405 Intellectual Property and Information Rights (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing or permission from instructor
Taught: Variable, check with department
Explores intellectual property and information rights issues facing today’s libraries and archives. Patents, trademarks, and copyrights are discussed in relation to intellectual property creators and consumers; Fair Use and the First Amendment are tied to Information Access. Copyright matters in Interlibrary Loan, Document Delivery, Electronic Reserves, and Classroom Instruction are examined. Basic legal and ethical issues include freedom of information, internet regulations, privacy, cybercrime, security, etc.

LIN 414 Advanced Information Literacy Skills (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: IMD 114
Taught: Variable, check with department
This course examines higher level information literacy skills and their application. Students learn how to assess and access information that is presented in a variety of formats.

LIN 420 Management in Library and Information Centers (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing
Taught: Variable, check with department
The course will cover the development and use of modern management theory and practices in the ever-changing work environment of libraries and other information agencies. In particular, the management functions of planning, organizing, staffing, directing and budgeting will be discussed. The course is taught entirely online.

LIN 496 Senior Capstone (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: LIN major and senior standing.
Taught: Variable, check with department
Students propose and work on projects that allow them to integrate academic experience into real world situations. Students undertake assignments to build organizational competencies such as communication skills, team-work, and critical thinking.

Developmental Mathematics Courses (MAHD)

MAHD 080 College Algebra Assistance (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: B+ or better in MAHD 095, MAHD 094, Mathematics ACT score of 20, 21, or equivalent, or placement.
Taught: Fall and spring
Academic assistance for Algebra for College Students. Must be taken concurrently with MAT 109. Does not count towards any graduation requirements.

MAHD 090 Basic Mathematical Skills (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Signed numbers, fractions, decimals, percents, ratio and proportion, measurements, graphs, and introduction to algebra. Does not apply toward any graduation requirements.

MAHD 091 Elementary Geometry (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Lines and angle relationships; parallel lines; constructions; similar and congruent triangles; polygons; right triangles; circles; areas and volumes. Does not apply toward any graduation requirements.

MAHD 094 Essential Algebra Part III (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: Placement by the Developmental Mathematics Program.
Taught: Fall and spring
Equations and inequalities in one variable, graphs of linear and quadratic equations, systems of equations, integer exponents, polynomial operations, proportions, quadratic equations, equations of lines, simple polynomial factoring. Emphasis on applications. Does not apply toward any graduation requirements.
Mathematics Courses (MAT)

MAT 109 Algebra for College Students (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAHD 099 or placement.
Taught: Fall, spring, and summer
Review of more advanced topics from Algebra II essential for success in MAT 112 and MAT 119. MAT 109 does not count towards general education requirements.

MAT 110 Introductory Probability (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAHD 094 or MAHD 095 or MAHD 099 or placement.
Taught: Fall and spring
Enumeration techniques and probability theory. Not open to students who have completed STA 295.

MAT 112 Applied Calculus (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 109 or placement.
Taught: Fall, spring, and summer
Applications of differential and integral calculus of one variable to business and the life sciences. Not open to students who have passed MAT 129 or MAT 227.

MAT 114 Finite Mathematics - QR (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 109 or placement.
Taught: Fall, spring, and summer
Linear functions, matrix algebra, linear programming, and probability. Emphasis on applications to business.
General education credit: Mathematics

MAT 115 Mathematics for Liberal Arts - QR (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAHD 095 or MAHD 099 or placement.
Taught: Fall, spring, and summer
Appreciation of mathematical ideas applied to problems from the real world; scheduling, voting schemes, apportionment, descriptive statistics, shape and symmetry, fractals, and population growth. For students of the liberal arts.
General education credit: Mathematics

MAT 115H Honors Mathematics for Liberal Arts - QR (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAHD 095 or MAHD 099 or placement.
Taught: Fall only
Appreciation of mathematical ideas applied to problems from the real world; scheduling, voting schemes, apportionment, descriptive statistics, shape and symmetry, fractals, and population growth. For students of the liberal arts.
General education credit: Mathematics

MAT 117 Algebra for Middle Grades Teachers (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 109 or placement.
Taught: Fall only
Concepts of algebra including expressions, equations, and functions, with a focus on the understanding necessary for future middle grades mathematics teachers. Open only to students majoring in elementary or middle grades education or by instructor permit.

MAT 119 Pre-Calculus Mathematics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 109 or placement.
Taught: Fall, spring, and summer
Analytic geometry; algebraic, trigonometric, exponential, and logarithmic functions. Not open to students who have passed MAT 129 or MAT 129.

MAT 128 Calculus A - QR (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: B- or better in MAT 119 or placement.
Taught: Fall and spring
Includes material covered in the first third of the MAT 129-MAT 229 sequence. Limits, differentiation with applications. Credit is not given for both MAT 129 and MAT 128.
General education credit: Mathematics

MAT 129 Calculus I - QR (4 credits)
Hours: 4 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 119 or placement.
Taught: Fall and spring
Limits differentiation and integration with application. Recommended for all students interested in mathematics or science. Credit is not given for both MAT 129 and MAT 128.
General education credit: Mathematics

MAT 140 Mathematics for Elementary and Middle Grades Teachers I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAHD 099 or MAHD 095 or placement.
Taught: Fall, spring, and summer
Basic concepts of numbers and arithmetic operations; number theory. Open only to students majoring in elementary or middle grades education.

MAT 141 Mathematics for Elementary and Middle Grades Teachers II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 140 and C- or better in MAHD 091 or placement.
Taught: Fall, spring, and summer
Elements of geometry. Open only to students majoring in elementary or middle grades education.

MAT 185 Introductory Discrete Mathematics - QR (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 109 or placement.
Taught: Fall and spring
Number systems important in computer applications, logic, set theory, combinatorics and probability, graph theory. Not open to students who have completed MAT 385.
General education credit: Mathematics

MAT 194 Mathematical Sciences Seminar (1 credit)
Hours: 1 classroom + 0 lab/studio
Prerequisite QR Co-requisite: MAT 128 or MAT 129.
Taught: Fall and spring
Introduction to disciplines in mathematical sciences; readings and discussions pertaining to the mathematical sciences. Topics vary.
MAT 227 Calculus B (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 128.
Taught: Fall and spring
Includes material covered in the middle third of the MAT 129-MAT 229 sequence. Integration with applications, the Fundamental Theorem of Calculus, calculus of exponential, logarithmic, and inverse functions, integration by parts; calculus of parametric equations and polar curves.

MAT 229 Directed Readings/Independent Study (1-3 credits)
Hours: 5 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Topics in mathematics or mathematics education. Topics vary.

MAT 292 Introductory Mathematical Modeling for Teachers (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of Instructor.
Taught: Fall and spring
Includes material covered in the last third of the MAT 129-MAT 229 sequence. Approximate integrals, improper integrals, infinite sequences and series, tests for convergence and divergence, power series, Taylor and Maclaurin series with applications; introduction of vectors and geometry of space; dot product and cross product. Credit is not given for both MAT 228 and MAT 229.

MAT 234 Linear Algebra (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 129 or MAT 227.
Taught: Fall and spring
Calculus of exponential, logarithmic, and inverse functions; techniques of integration; arc length; calculus of parametric equations and polar curves; infinite sequences and series; introduction of vectors and Geometry of space; dot product and cross product. Credit is not given for both MAT 228 and MAT 229.

MAT 240 Geometry for Middle School Teachers (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: B- or better in MAT 140.
Taught: Fall and spring
Points, lines, and planes; curves and surfaces; congruence; similarity; parallelism; transformation, tessellations; systems of measure; perimeter; area; volume; angle measure. Appropriate computer software will be introduced. Only open to students majoring in elementary or middle school education.

MAT 294 Topics: Mathematics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Topical topics in mathematics or mathematics education. Topics vary.

MAT 299 Directed Readings/Independent Study (1-3 credits)
Hours: 5 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Essentials of logic; methods of proof; set theory.

MAT 302 Introduction to Higher Mathematics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 228 or MAT 229.
Taught: Fall and spring
Prerequisites: C or better in MAT 240.
Taught: Spring only
Deeper understanding of middle and secondary level mathematics through the use of technologies including computer software, Internet, hand-held technologies; utilization of technology as a tool for teaching mathematics effectively; instructional applications of word processing, spreadsheets, dynamic and other software, and hand-held technologies; issues on appropriate use of technology. Not open to students who have successfully completed MAT 304. Prereq: P in EDU 309 and either PREQ: C or better in MAT 240 or COREQ: MAT 240.

MAT 304 Mathematics and Technology - MG Teachers (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 228 or MAT 229 and P in EDU 311.
Taught: Spring only
Deeper understanding of secondary and college-level mathematics through the use of technologies including computer software, Internet, hand-held technologies; utilization of technology as a tool for teaching mathematics effectively; instructional applications of word processing, spreadsheets, dynamic and other software, and hand-held technologies; issues on appropriate use of technology. Not open to students who have successfully completed MAT 303.

MAT 305 History of Mathematics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 129 or MAT 227.
Taught: Fall only-odd yrs
Mathematics from ancient times through development of the calculus.

MAT 325 Differential Equations (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 228 or MAT 229.
Taught: Spring only
Ordinary differential equations, with applications.

MAT 329 Calculus III (4 credits)
Hours: 4 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 228 or MAT 229.
Taught: Fall and spring
Prerequisites: C- or better in MAT 240.
Taught: Spring only
Cylindrical and spherical coordinates; space curves; differentiation and integration of vector functions; differentiation of functions of several variables; multiple integrals; vector fields; line and surface integrals; Green’s Theorem.

MAT 330 Classical Applied Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 325.
Taught: Fall only
Fourier series; orthogonal expansions; eigenvalue problems; boundary value problems in ordinary and partial differential equations. Same as PHY 330.

MAT 345 Introduction to Geometry (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 302.
Taught: Fall only
Axiomatic Euclidean geometry; introduction to non-Euclidean geometries.

MAT 360 Numerical Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 234 and (CSC 270 or CSC 260).
Taught: Spring only-odd yrs
Numerical integration, solution of nonlinear equations by iterative processes; functional approximation and interpolation; initial value problems.
MAT 375 Applied Mathematical Models (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in (MAT 129 or MAT 227) and (STA 205 or STA 212 or STA 250).
Taught: Fall only-odd years
Basic mathematical models arising in biology, psychology, sociology, political science, and decision science; exponential growth, predator-prey, Markov chain, learning theory, linear and nonlinear programming, waiting line, and simulation models.

MAT 385 Discrete Mathematics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 228 or MAT 229.
Taught: Fall and spring
Propositional and predicate logic; proof techniques; recurrence relations; basic set theory; introduction to graphs, Boolean algebra; finite state machines.

MAT 392 Research in Mathematics (0-3 credits)
Hours: 0-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Original research in mathematics directed by a member of the Department of Mathematics and Statistics faculty.

MAT 394 Topics: Mathematics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Topics vary.

MAT 399 Directed Readings/Independent Study (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: consent of instructor.
Taught: Variable, check with department
Topics vary.

MAT 410 Abstract Algebra I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 234 and MAT 302.
Taught: Fall only-even years
Basic number theory, including divisibility properties of integers and congruencies; introduction to groups, rings, and fields.

MAT 415 Abstract Algebra II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 410.
Taught: Spring only-odd yrs
Extensive study of one or more of the topics considered in MAT 410.

MAT 420 Real Variables I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 302 and MAT 329.
Taught: Fall only-odd years
Foundations of calculus; topology of Cartesian spaces; convergence; continuous functions.

MAT 421 Real Variables II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 420.
Taught: Spring only-even yrs
Sequences and series of functions; integration.

MAT 429 Complex Variables (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 302 and MAT 329.
Taught: Variable, check with department
Analytic functions of a complex variable; Cauchy’s theorem and Cauchy’s formula; power series; contour integrals; conformal mapping; calculus of residues.

MAT 463 Cryptology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 234 or CSC 362 or CSC 364.
Taught: Variable, check with department
Cryptology of classical ciphers, mathematical foundations of cryptology, Hill cipher, DES and AES, cryptography of public key cryptosystems.

MAT 483 Cryptology of Classical Ciphers (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Cryptology of classical ciphers, mathematical foundations of cryptology, Hill cipher, DES and AES, cryptography of public key cryptosystems.

MAT 499 Directed Readings/Independent Study (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Topics in mathematics and mathematics education. Topics vary.

MAT 497 Mathematical Sciences Capstone (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 30 semester hours earned toward the major in mathematics.
Taught: Spring only
Directed projects in the mathematical sciences.

MAT 498 Cryptography (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Cryptology of classical ciphers, DES and AES, public key cryptosystems, authentication and cryptographic hash functions.

MAT 499 Directed Readings/Independent Study (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Topics in mathematics and mathematics education. Topics vary.

MAT 575 Applied Mathematical Models (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Original research in mathematics directed by a member of the Department of Mathematics and Statistics faculty.

MAT 594 Topics: Mathematics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Topics vary.

MAT 599 Directed Readings/Independent Study (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Topics in mathematics and mathematics education. Topics vary.

MDS 494 Seminar: Medieval Studies (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MDS 201 and 9 semester hours of courses in medieval studies curriculum.
Taught: Variable, check with department
Selected topics in culture of the middle ages; student research on issues related to topic. Required for medieval studies minor.

MGT 205 Business Management Principles (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Fall and spring
Introduction to business firms, their organization, functions, and management in context of global, legal, and ethical environments; business as a setting in which people work, make decisions, and contribute productively to society; management of people, information, and processes to achieve organizational goals.
MGU 240 Managerial Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 and sophomore standing.
Taught: Fall and spring
Prepares students to write and speak effectively when solving problems managers face. Speaking as a manager through formal and informal addresses, business meetings, news conferences. Writing managerial documents: memoranda; letters; e-mail; short formal special reports; executive summaries and informal notes to superiors, peers and subordinates.

MGU 300 Behavior in Organizations: Understanding Organizational Life (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MGT 300 and MGT 305 and junior standing.
Taught: Variable, check with department
This course introduces students to international business, strategy and management. It examines strategy from the perspective of the parent company and its foreign subsidiaries. It focuses upon the internationalization process and international market entry modes, as well as the main value chain activities and support functions.

MGU 305 Operations Management in Business (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MAT 114 and STA 205 or STA 212; junior standing.
Taught: Fall and spring
Overview of the complex organizational, group, and individual processes constituting the internal environment of contemporary business organizations; understanding the dynamics and learning the concepts, theories, processes, and skills suggested by research to underlie effective planning, organizing, interacting, and controlling.

MGU 306 Project Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MGT 300 and junior standing.
Taught: Variable, check with department
This course is an introduction to the Concepts, tools and techniques of Project Management. The goal is to provide the student with a fundamental knowledge of project planning, budgeting, scheduling, work breakdown structures, risk analysis, project monitoring and project control/termination. Group projects, presentations, class discussions and case exercises will provide the vehicle for developing decision-making, communication, interpersonal and leadership skills that are essential for success in the workplace.

MGU 307 Supply Chain Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MGT 300 and MGT 305 and junior standing.
Taught: Variable, check with department
An upper level undergraduate elective designed to familiarize the student with the scope of supply chain management in organizations. Exposure to key dimensions of effective supply chain management, including those related to logistics, purchasing, information systems, asset management, and strategic supply chain configuration will be provided. Focus will be on the key managerial decisions required to effectively design and operate a supply chair.

MGU 310 Managerial Behavior (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MGT 205 and junior standing.
Taught: Fall and spring
Human aspects of organizations that contribute to individual and collective effectiveness; practical and theoretical areas of motivation, leadership, and micro and macro aspects of organizational design.

MGU 315 Continuous Quality Improvement in Operations (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MGT 300 and MGT 305.
Taught: Variable, check with department
Advanced operations management approaches to quality; process and productivity improvement in manufacturing, and service and government organizations; use of case studies, exercises, and/or term projects to show application of management and quantitative concepts.

MGU 320 Managing a Diverse Workforce (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MGT 300.
Taught: Fall and spring
This course will provide an overview of the theories and concepts of managing diversity. Students will understand the importance of managing a diverse workforce, gain self-awareness of their individual diversity and develop an awareness and skill set for understanding, analyzing, evaluating, and managing diversity issues in the workplace.

MGU 330 Negotiation and Conflict Resolution (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Fall and spring
The skills, knowledge and abilities to negotiate effectively with others are important to managers and employees in all types of organizations; business, governmental, non-profit, healthcare and professional. The purpose of this course is to provide students with the theory, tactics, and practices that will enable them to negotiate successfully and resolve conflicts. Core subjects include negotiation preparation; distributive and integrative bargaining; strategies and tactics; gaining leverage through power and persuasion; and the influences of ethics, gender and culture. In addition to use of mediation and arbitration techniques to resolve conflicts are presented. The course requires students to learn through active participation in negotiation of actual cases.

MGU 340 Human Resource Administration (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Fall and spring
Recruitment and selection of labor force; training of employees; management development; wage and salary plans; personnel policies; development of personnel policies consistent with government regulations.

MGU 355 International Business Environment (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ECO 200, Junior standing, and major or pre-major in the college of business.
Taught: Variable, check with department
This course introduces students to international business, strategy and management. It examines strategy from the perspective of the parent company and its foreign subsidiaries. It focuses upon the internationalization process and international market entry modes, as well as the main value chain activities and support functions.

MGU 360 Comparative International Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MGT 300 and junior standing.
Taught: Fall and spring
Management of the multinational firm; cross cultural issues; differences in attitudes and behaviors, organizational structure, environmental considerations between domestic and multinational firms; host country subsidiary relations in an international context.

MGU 370 Managing Organizational Change (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MGT 300.
Taught: Spring only
Application of theories of organizational change to a variety of business organizations; planning and implementing of organizational change as well as its behavioral aspects; use of simulations, cases, and/or projects to blend theory and practice.

MGU 394 Topics: Management (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MGT 300 and junior standing.
Taught: Variable, check with department
Specialized topics of student and business community interest. Topics for current offering listed in Schedule of Classes. With department approval may be repeated for elective credit when topics change.
MG 352 Internship: Management (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MG 300 and consent of instructor.
Taught: Fall, winter, spring and summer
This course provides students with an opportunity to experience business through internships in a variety of business settings. Students will apply knowledge and skills gained in the classroom to real-world business situations. Students must have completed a minimum of 18 semester hours of coursework and must have a cumulative GPA of 2.75. Students may repeat once for full credit if different content is offered.

MG 240 Introduction to Interactive Media (3 credits)
Hours: 3 classroom + 2 lab/studio
Prerequisite OR Co-requisite: EMB 140 or INF 186 or consent of instructor.
Taught: Fall and spring
This course introduces students to the development of interactive media, including web applications, mobile applications, and other interactive content. Students will learn the fundamentals of interactive design and development, including user interface design, interactivity, and the creation of multimedia content.

MIN 252 Non-Linear Interactive Storytelling (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisite OR Co-requisite: INF 186 or MIN 240 or consent of instructor.
Taught: Fall and spring
This course explores the use of non-linear storytelling techniques in interactive media, including web, mobile, and interactive applications. Students will learn how to design and develop interactive content using tools such as Adobe Flash and Unity.

MIN 294 Special Introductory Topics in Media Inf (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
This course focuses on a specific topic in media informatics. Topics may vary semester to semester and may be repeated once for credit.

MIN 340 Media Scripting for Interactivity (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MIN 240.
Taught: Fall and spring
This course covers the scripting techniques used in interactive media, including JavaScript, ActionScript, and other programming languages. Students will learn how to create dynamic content and interactivity using scripting languages.

MIN 345 Introduction to 3d Modeling (3 credits)
Hours: 3 classroom + 2 lab/studio
Prerequisite OR Co-requisite: MIN 221.
Taught: Fall and spring
This course introduces students to the basics of 3D modeling using software such as Maya and 3ds Max. Students will learn how to create and manipulate 3D models, including character design, animation, and rendering.

MIN 375 Impact of Computer Games and Virtual Worlds (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MIN 252.
Taught: Fall only
This course examines the impact of computer games and virtual worlds on society, media, and culture. Topics include the history of games, the psychology of gaming, and the ethical implications of virtual reality.

MIN 381 Computer-Mediated Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
This course examines the role of technology in communication, including email, social media, and virtual meetings. Students will learn how to effectively communicate in a digital world.

MIN 394 Topics: Media Informatics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
This course covers a specific topic in media informatics. Topics may vary semester to semester and may be repeated once for credit.

MIN 396 Internship: Media Informatics (1-3 credits)
Hours: 0 classroom + 12 lab/studio
Prerequisites: Written consent of supervising faculty member; junior or senior standing; and a GPA of at least 2.75.
Taught: Fall, spring, and summer
This course provides students with an opportunity to intern in a media informatics-related field. Students will gain practical experience and apply their knowledge to real-world challenges.

MIN 399 Internship: Management (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Open only to students certified as majoring in business.
Taught: Fall, winter, spring and summer
This course provides students with an opportunity to intern in a management-related field. Students will gain practical experience and apply their knowledge to real-world challenges.

Media Informatics Courses (MIN)

MIN 221 Visual Fundamentals for Digital Media (3 credits)
Hours: 3 classroom + 2 lab/studio
Prerequisite OR Co-requisite: INF 186 or INF 286 or consent of instructor.
Taught: Fall and spring
This course covers the fundamentals of visual design for digital media, including color theory, typography, layout, and web design. Students will use Adobe Photoshop and Illustrator. Basic Mac Platform computer skills are required.

MIN 252 Non-Linear Interactive Storytelling (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisite OR Co-requisite: INF 186 or MIN 240 or consent of instructor.
Taught: Fall and spring
This course explores the use of non-linear storytelling techniques in interactive media, including web, mobile, and interactive applications. Students will learn how to design and develop interactive content using tools such as Adobe Flash and Unity.

MIN 294 Special Introductory Topics in Media Inf (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
This course focuses on a specific topic in media informatics. Topics may vary semester to semester and may be repeated once for credit.

MIN 340 Media Scripting for Interactivity (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MIN 240.
Taught: Fall and spring
This course covers the scripting techniques used in interactive media, including JavaScript, ActionScript, and other programming languages. Students will learn how to create dynamic content and interactivity using scripting languages.

MIN 345 Introduction to 3d Modeling (3 credits)
Hours: 3 classroom + 2 lab/studio
Prerequisite OR Co-requisite: MIN 221.
Taught: Fall and spring
This course will focus on basics 3d modeling with a focus on the practical texturing, animation and learning within Maya, the industry- standard animation software. In addition, students will learn efficient animation workflow and standard storyboard techniques used in today’s entertainment, advertising, science and gaming industries.

MIN 375 Impact of Computer Games and Virtual Worlds (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: INF 186, MIN 221 and MIN 240.
Taught: Fall and spring
This course examines how nonfiction stories are mediated by technological distribution through digital devices and across multiple media channels. Students take pieces written for the medium of paper and alter them for distribution on the web and through other digital media.

MIN 352 Digital Media Projects (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: INF 186, MIN 221 and MIN 240.
Taught: Fall and spring
This course will critically examine computer games and virtual worlds through the lens of current events, trends and research. Topics explored include both theoretical and applied content in the areas of science, culture, humanities, technology, and social science.

MIN 381 Computer-Mediated Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
This seminar examines communication occurring between two or more individual people who interact and/or influence each other via the internet or network connection using social software. Topics include identity, social information processing, online romance, social network sites, Internet communities, web blogs, wikis, and workplace considerations.

MIN 394 Topics: Media Informatics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
This course covers a specific topic in media informatics. Topics may vary semester to semester and may be repeated once for credit.

MIN 396 Internship: Media Informatics (1-3 credits)
Hours: 0 classroom + 12 lab/studio
Prerequisites: Written consent of supervising faculty member; junior or senior standing; and a GPA of at least 2.75.
Taught: Fall, spring, and summer
Selected placement for majors in businesses and non-profit organizations. Internships may involve content design, web and mobile applications, digital advertising, animation, game design, production writing or other areas within field. Repeatable once for full credit if different responsibilities.
MIN 420 Business of Media Informatics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing, MIN 240 and MIN 345 or permission of instructor.
Taught: Variable, check with department
This course will provide students a comprehensive look at factors that influence the success of media informatics industry. In a field where nearly three-fourths of all media designers freelance at some point, the need to understand and develop key business practices is imperative. The focus will include business development and management, project management, legal issues, ethical practice and self-marketing.

MIN 440 Advanced Media Interactivity (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MIN 340.
Taught: Variable, check with department
In this course, students will design a two-dimensional web-based video game, online tutorials and desktop application using ActionScript 3.0 and Adobe Flash. The focus on this class will include theory and practice of designing games according to industry and usability/accessibility standards. New trends and techniques in gaming will also be explored, critiqued and applied.

MIN 445 Intermediate 3D Modeling and Animation (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MIN 345.
Taught: Variable, check with department
This course will continue the development of 3D modeling skills with a focus on rigging, animating and visual effects.

MIN 452 Advanced Digital Media Projects (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MIN 352.
Taught: Fall and spring
This course will further analyze the structures of narrative or non-fiction storytelling in virtual environments. Students will now work in teams to develop long-term, media-intensive story ideas, launch their own website and develop a series of stories that include audio, video, images, flash, Maya and text to tell interactive stories.

MIN 475 Advanced 3D Animation and Gaming (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MIN 445.
Taught: Variable, check with department
Advanced modeling, rigging, shading, rendering, and character-design skills are developed in conjunction with traditional story, animation, lighting, and cinematography theoretical concepts. Students complete individual, independent projects and also work as a team to develop, design and produce an animated movie or video game environment and assets.

MIN 495 Study Abroad (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Varies by topic.
Taught: Variable, check with department
Varies by topic. Course includes a classroom portion and a trip abroad.

MIN 496 Senior Practicum (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MIN major, senior standing or consent of instructor.
Taught: Variable, check with department
Students work on team projects that allow them to integrate academic experience into real world situations. Required electronic portfolio is reviewed and evaluated with revisions applied. Students undertake assignments to build organizational competencies such as communication skills, teamwork, and critical thinking.

MIN 499 Independent Study (1-3 credits)
Hours: 0 classroom + 12 lab/studio
Prerequisites: Junior or senior standing and consent of instructor.
Taught: Variable, check with department
Individually supervised work involving reading, research, writing and/or production in specified area of interest in Media Informatics. The student will work with the instructor to select and develop the topic. May be repeated for a maximum of 6 semester hours as topic varies.

Marketing Courses (MKT)

MKT 205 Principles of Marketing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Fall and spring
Flow of goods from producer to consumer; demand-stimulated and demand-filling activities of business enterprises; marketing concepts and systems analysis.

MKT 300 Marketing Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MKT 205 or MKT 305 Marketing Principles.
Taught: Fall and spring
MKT 300 is designed to introduce students to the analytical, financial, communications, and decision-making skills and development of the technical competencies needed to succeed as a marketing professional.

MKT 305 Integrated Marketing Communication (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MKT 205 or MKT 305.
Taught: Fall and spring
Students explore how to design, manage, and coordinate effective marketing and promotion programs using different marketing communication tools.

MKT 310 Building and Managing Customer Relations (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MKT 205 or MKT 305.
Taught: Fall and spring
Students are exposed to strategies, theories, and personal skills involved in processes used to manage and build customer relationships and gain an appreciation for the role of customer value in marketing.

MKT 320 Consumer Behavior (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MKT 205 or MKT 305.
Taught: Fall and spring
Focuses on examining different types of consumers and their decision making processes, experiences and satisfactions in the marketplace. Emphasis is placed on factors that influence how consumers think, feel, and act.

MKT 330 Global and Cultural Issues in Marketing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MKT 205 or MKT 305.
Taught: Fall and spring
Focuses on an understanding of the global, societal, and cultural context of marketing, and the impact these factors have on the practice of marketing. Incorporates the development of the marketing mix in light of these contextual factors.

MKT 335 Event Planning and Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MKT 205 or MKT 305.
Taught: Fall and spring
A comprehensive look at factors to consider for successful event planning, marketing, and management. Topics will include analysis of event budgets, design and implementation of promotional campaigns, strategies for sponsorship program development, selection of facilities or venues, coordination of staffing needs, and key legal issues such as contracts.
MKT 301 Innovative Team Leadership (3 credits)
Taught: Variable, check with department

MSC 202 Sophomore Leadership Lab I (1 credit)
Taught: Variable, check with department

MSC 204 Sophomore Leadership Lab II (1 credit)
Taught: Variable, check with department

MSC 205 Corporate Leadership (3 credits)
Taught: Variable, check with department

MSC 299 Leaders Training Course (4 credits)
Hours: 4 classroom + 0 lab/studio
Taught: Variable, check with department
If eligible, students may apply to the chair. Six weeks of paid summer ROTC training at Fort Knox, Kentucky. Course graduates are eligible to enter the ROTC advance course and earn two year scholarships

MSC 301 Adaptive Tactical Leadership (3 credits)
Taught: Variable, check with department
The student is challenged to study, practice and evaluate adaptive team leadership skills in preparation for the Leader Development and Assessment Course. Challenging scenarios related to small unit tactical operations are used to develop self awareness and critical thinking skills.

MSC 302 Junior Leadership Lab I (1 credit)
Taught: Variable, check with department
Designed to develop leadership potential by participation in the planning and conducting of training, development of personnel management skills and by emphasizing the functions, duties, and responsibilities of Commissioned Officers and Noncommissioned Officers. Physical training and preparation for the summer assessment course are emphasized.

MSC 303 Lead in Changing Environment (3 credits)
Taught: Variable, check with department
Probes leader responsibilities that foster an ethical command climate. Develops cadet leadership competencies and prepares them for...
success at the Leadership Development and Assessment Course. Recognize leader responsibilities to accommodate subordinate needs. Apply principles and techniques of effective written and oral communications.

MSC 304 Junior Leadership Lab II (1 credit)
Taught: Variable, check with department
Designed to develop leadership potential by participation in the planning and conducting of training, development of personnel management skills and by emphasizing the functions, duties and responsibilities of Commissioned Officers and Non-commissioned Officers. Physical training and preparation for the Leadership Development and Assessment Course are emphasized.

MSC 399 Leader Development Assessment (4 credits)
Taught: Variable, check with department
This training is conducted at Fort Lewis, Washington and normally takes place in the summer following the junior year. This internship is five weeks in duration and oriented on the execution of Advanced Military Tactics, Cadet Leadership ability, and physical endurance.

MSC 401 Developing Adaptive Leaders (3 credits)
Taught: Variable, check with department
Builds on Leadership Development and Assessment Course experience to solve organizational and staff problems. Discuss staff organization, functions, and processes. Analyze counseling responsibilities and methods. Examine principles of subordinate motivation and organizational change. Apply leadership and problem solving principles to a complex case study.

MSC 403 Leadership in A Complex World (3 credits)
Taught: Variable, check with department

MSC 404 Senior Leadership Lab II (1 credit)
Taught: Variable, check with department
Emphasizes the functions, duties, and responsibilities of junior Army Officers with special attention directed toward developing advanced leadership potential, personal communications (oral and written) skills and through active participation in the planning and conduct of training.

MSC 499 Directed Study (1-3 credits)
Taught: Variable, check with department
Open to especially qualified students with the consent of the department chair.

Music Courses (MUS)

MUS 100 Music Appreciation - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
Survey of the development of music in Western civilization, with emphasis on the interdependence of classical music with art, literature, politics, religion, socio-economic changes, and world influences. Emphasis will be placed on developing a working knowledge of musical vocabulary and rhetoric, listening skills and the ability to identify differing musical styles, as well as familiarity with monuments of music and major composers.

General education credit: Culture and Creativity

MUS 104 Orientation to Music Education (1 credit)
Hours: 1 classroom + 0 lab/studio
Taught: Spring only
The purpose of this course is to explore the profession of music education. The course is intended for anyone who is interested in teaching vocal, instrumental, or general music in P-12 schools.

MUS 106 Music of World Cultures - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
An overview of traditional musics from cultures and regions throughout the world focusing primarily on non-Western traditions. This course examines music as a cultural phenomenon influencing the lives and traditions of contemporary cultures and past civilizations.

General education credit: Global Viewpoints

MUS 107 Survey of Afro-American Music (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Music of the present; oral folk tradition; transition to present day works of African-American composers, and their relationships to western and non-western traditions.

MUS 108 History of Rock and Roll (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Survey of the history, aesthetics, and sociology of rock and roll in the United States from its origins to the present.

MUS 109 History of American Popular Music (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Survey of the history and development of American popular music from 1940 to the present.

MUS 110 Appreciation of Jazz - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
Survey of America’s first indigenous art form and the elements influencing its historical, artistic, and socio-cultural impact nationally and globally. Emphasis will be placed on stylistic periods, historical contexts, major artists, and cultural influences of African and Western music methodologies as they relate to the development of the jazz idiom. Development of basic listening and music skills will be cultivated through the discussion of recordings, artist profiles, and concept application.

General education credit: Cultural Pluralism

MUS 119 Introduction to the Keyboard and Solfege (1 credit)
Hours: 0 classroom + 1.5 lab/studio
Taught: Fall only
Application of music theory fundamentals to the keyboard. Elementary introduction to solfege. For students with limited background in music.

MUS 120 Introduction to Music Theory (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Rudiments of music theory, including scales, key signatures, intervals, triads, and an introduction to harmonic analysis. For students with limited background in music.

MUS 121 Supplemental Theory (1 credit)
Hours: 0 classroom + 2 lab/studio
Co-requisites: MUS 122.
Taught: Fall only
Reinforcement and drill of music theory fundamentals. For students with a moderate background in music.

MUS 122 Music Theory I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Adequate score on departmental music theory placement test, or C or better in MUS 120.
Taught: Fall and spring
Basic vocabulary of music and its application to harmony, counterpoint, and analysis.

MUS 123 Music Theory II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MUS 122.
Taught: Fall and spring
Continuation of MUS 122. Introduction to chromatic functions; secondary dominants and modulation.

MUS 124 Aural Skills I (1 credit)
Hours: 0 classroom + 1.5 lab/studio
Taught: Fall and spring
Sight-singing and dictation. Stepwise melodies, harmonic dictation of tonic and dominant chords. Triad recognition.
MUS 125 Aural Skills II (1 credit)
Hours: 0 classroom + 1.5 lab/studio
Taught: Fall and spring

MUS 126 Aural Skills III (1 credit)
Hours: 0 classroom + 1.5 lab/studio
Prerequisites: C or better in MUS 125.
Taught: Fall and spring
Sight-singing and dictation. Different macrobeat values. Dominant seventh chords and inversions.

MUS 127 Aural Skills IV (1 credit)
Hours: 0 classroom + 1.5 lab/studio
Taught: Fall and spring
Sight-singing and dictation. Common cross-rhythms. All diatonic triads and the dominant seventh.

MUS 130 Introduction to Music Literature (2 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Major forms and some important masterworks of western music from the Renaissance through the 20th century; development of listening skills.

MUS 135 Class Piano for Non-Music Students I (1 credit)
Hours: 0 classroom + 3 lab/studio
Taught: Fall and spring
Group instruction in piano; development of reading, technique, and functional keyboard skills for students not majoring in music.

MUS 136 Class Piano for Non-Music Students II (1 credit)
Hours: 0 classroom + 3 lab/studio
Prerequisites: MUS 135 or 1 or more years of private piano study, or consent of instructor.
Taught: Variable, check with department
Intermediate level group instruction in piano; further development of reading technique, and functional keyboard skills for students not majoring in music. Limit 18 per class.

MUS 140 Class Piano I (1 credit)
Hours: 0 classroom + 1.5 lab/studio
Taught: Fall and spring
Group instruction in piano; development of reading, technique, and functional skills helpful for elementary school teachers and others majoring in music.

MUS 141 Class Piano II (1 credit)
Hours: 0 classroom + 1.5 lab/studio
Taught: Fall and spring
Continuation of MUS 140.

MUS 142 Class Piano III (1 credit)
Hours: 0 classroom + 1.5 lab/studio
Prerequisites: C or better in MUS 141.
Taught: Fall and spring
Continuation of MUS 141.

MUS 143 Class Piano IV (1 credit)
Hours: 0 classroom + 1.5 lab/studio
Taught: Fall and spring
Continuation of MUS 142.

MUS 146 Group Voice (1 credit)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Vocal technique; theory and development of the singing voice; posture, breathing, correct tone production, diction, and stage deportment. For students majoring in music.

MUS 148 Group Guitar (1 credit)
Hours: 0 classroom + 2 lab/studio
Taught: Fall and spring
Group instruction in beginning guitar; development of reading, technique, and functional skills helpful for elementary school teachers and others majoring in music.

MUS 159 Music Education Field Work (3 credits)
Hours: 0 classroom + 0 lab/studio
Taught: Fall and spring
Additional field work for music education majors.

MUS 162 Piano Pedagogy I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Fall only-even years
Preschool music programs; survey of philosophies and observation of teaching methods such as Suzuki, Orff, Dalcroze, Kodaly, Kindermusik, and Musikgarten.

MUS 163 Piano Pedagogy II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: consent of instructor.
Taught: Spring only-odd yrs
Elementary level; continuation of philosophies and methods as applied to primary grade children; early keyboard technique; musicianship; survey of teaching materials and music appropriate to this age level; business procedures for the independent music studio.

MUS 164 Applied Jazz Piano (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Taught: Fall and spring
Private instruction in jazz piano. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 165 Applied Jazz Guitar (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Taught: Fall and spring
Private instruction in jazz guitar. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 166 Applied Jazz Percussion (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Taught: Fall and spring
Private instruction in jazz percussion. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 167 Applied Jazz Bass (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Taught: Fall and spring
Private instruction in jazz bass. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 168 Applied Harp (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 169 Applied Harpsichord (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 171 Applied Violin (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 172 Applied Viola (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and
band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 173 Applied Cello (1-2 credits)**
*Hours: 0 classroom + .5 lab/studio Taught: Fall and spring*
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 174 Applied Bass (1-2 credits)**
*Hours: 0 classroom + .5 lab/studio Taught: Fall and spring*
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 175 Applied Flute (1-2 credits)**
*Hours: 0 classroom + .5 lab/studio Taught: Fall and spring*
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 176 Applied Oboe (1-2 credits)**
*Hours: 0 classroom + .5 lab/studio Taught: Fall and spring*
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 177 Applied Bassoon (1-2 credits)**
*Hours: 0 classroom + .5 lab/studio Taught: Fall and spring*
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 178 Applied Clarinet (1-2 credits)**
*Hours: 0 classroom + .5 lab/studio Taught: Fall and spring*
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 179 Applied Saxophone (1-2 credits)**
*Hours: 0 classroom + .5 lab/studio Taught: Fall and spring*
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 180 Applied Trumpet (1-2 credits)**
*Hours: 0 classroom + .5 lab/studio Taught: Fall and spring*
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 181 Applied French Horn (1-2 credits)**
*Hours: 0 classroom + .5 lab/studio Taught: Fall and spring*
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 182 Applied Trombone (1-2 credits)**
*Hours: 0 classroom + .5 lab/studio Taught: Fall and spring*
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 183 Applied Music: Euphonium (1-2 credits)**
*Hours: 0 classroom + .5 lab/studio Taught: Fall and spring*
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 184 Applied Music: Tuba (1-2 credits)**
*Hours: 0 classroom + .5 lab/studio Taught: Fall and spring*
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 185 Applied Piano (1-2 credits)**
*Hours: 0 classroom + .5 lab/studio Taught: Fall and spring*
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 186 Applied Organ (1-2 credits)**
*Hours: 0 classroom + .5 lab/studio Taught: Fall and spring*
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 187 Applied Voice (1-2 credits)**
*Hours: 0 classroom + .5 lab/studio Taught: Fall and spring*
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.
MUS 188 Applied Guitar (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 189 Applied Percussion (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 195 Music: Experimental (1 credit)
Hours: 0 classroom + .5 classroom + 1 lab/studio
Taught: Variable, check with department
Private or semi-private instruction in music theory and fundamentals of pedagogy; instruction in music theory, aural skills. Fees assessed according to contact hours.

MUS 197 Freshman Proficiency Jury (0 credits)
Hours: 0 classroom + 0 lab/studio
Taught: Fall and spring
As part of the admission process to a music degree program, freshmen students majoring in music must pass a freshman Proficiency Jury in applied music after two semesters of applied study.

MUS 222 Music Theory III (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MUS 123.
Taught: Fall and spring
Continuation of MUS 123. Advanced contrapuntal and harmonic vocabulary and techniques.

MUS 223 Music Theory IV (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MUS 222.
Taught: Fall and spring
Twentieth-century musical techniques approached through analysis and composition.

MUS 224 Aural Skills V (1 credit)
Hours: 0 classroom + 1.5 lab/studio
Prerequisites: C- or better in MUS 127.
Taught: Fall and spring

MUS 225 Aural Skills VI (1 credit)
Hours: 0 classroom + 1.5 lab/studio
Prerequisites: C- or better in MUS 225.
Taught: Fall and spring
Sight-singing and dictation. Secondary rhythmic subdivisions. Secondary dominants, and modulations to closely related keys.

MUS 226 Aural Skills VII (1 credit)
Hours: 0 classroom + 1.5 lab/studio
Prerequisites: C- or better in MUS 226.
Taught: Fall and spring
Sight-singing and dictation. Changing meter. All secondary dominants, and modulation to closely related keys.

MUS 227 Aural Skills VIII (1 credit)
Hours: 0 classroom + 1.5 lab/studio
Prerequisites: C- or better in MUS 227.
Taught: Fall and spring
Sight-singing and dictation. Asymmetrical meters. Church modes. Modulation to distantly-related keys.

MUS 228 Applied Composition (1-2 credits)
Hours: 0 classroom + 5-1 lab/studio
Prerequisites: placement test; at least 2.50 in music theory/aural skills. Fees assessed according to contact hours.
Taught: Fall and spring
Private or semi-private instruction in music composition. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs.

MUS 230 History of Music I: Antiquity through Early Baroque (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Music in western civilization from the earliest sources to the late 17th century. (ca. 1680).

MUS 231 History of Music II: Late Baroque to Mid 19th Century (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MUS 231.
Taught: Fall only
Music in western civilization from ca. 1680 to ca. 1850.

MUS 235 Group Jazz Piano I (1 credit)
Hours: 0 classroom + 3 lab/studio
Prerequisites: C or better in MUS 143.
Taught: Fall only
Introduction to jazz harmony and jazz piano skills.

MUS 236 Group Jazz Piano II (1 credit)
Hours: 0 classroom + 3 lab/studio
Prerequisites: C or better in MUS 235.
Taught: Spring only
Advanced study in jazz harmony and jazz piano skills.

MUS 237 Jazz Improvisation I (2 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MUS 237.
Taught: Fall only
Application of jazz vocabulary and melodic constructs within the jazz repertoire; ear training through transcription of solos; and memorization of standard jazz repertoire.

MUS 238 Jazz Improvisation II (2 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MUS 238.
Taught: Spring only
Continued study of the tools of jazz improvisation; application and study of Bebop vocabulary; transcription of Bebop and Hard Bop solos; memorization of solos.

MUS 241 Applied Methods and Materials: Brass (1 credit)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Pre-Music Education or Music Education Majors only.
Taught: Fall only
Class instruction in performance and pedagogy.

MUS 243 Applied Methods and Materials: Woodwinds (1 credit)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Pre-Music Education or Music Education Majors only.
Taught: Spring only
Class instruction in performance and pedagogy.

MUS 245 Applied Methods and Materials: Strings (1 credit)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Pre-Music Education or Music Education Majors only.
Taught: Fall only
Class instruction in performance and pedagogy.

MUS 247 Applied Methods and Materials: Percussion (1 credit)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Pre-Music Education or Music Education Majors only.
Taught: Spring only
Class instruction in performance and pedagogy.

MUS 249 Instruments for Singers, Pianists, and Guitarists (1 credit)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Pre-Music Education or Music Education Majors only.
Taught: Fall only
Instrumental techniques, basic transpositions, and fundamentals of pedagogy; instruction in dealing with instruments as a conductor.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours of Instruction</th>
<th>Tuition Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 254</td>
<td>Applied Jazz Piano (1-2 credits)</td>
<td>0 classroom + 5-1 lab/studio</td>
<td>Taught: Fall and spring Private instruction in jazz piano. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.</td>
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<tr>
<td>MUS 260</td>
<td>Music Fundamentals and Skills for Classroom Teachers (3 credits)</td>
<td>3 classroom + 0 lab/studio</td>
<td>Taught: Fall, spring, and summer Designed to train teachers in grades one through six to read music, keyboard, auto harp, and recorder experiences; methods and materials. For students not majoring in music.</td>
</tr>
<tr>
<td>MUS 261</td>
<td>Class Piano V (1 credit)</td>
<td>0 classroom + 1.5 lab/studio</td>
<td>Prerequisites: EDU 104. Taught: Fall and spring Continuation of Class Piano sequence.</td>
</tr>
<tr>
<td>MUS 262</td>
<td>Class Piano VI (1 credit)</td>
<td>0 classroom + 1.5 lab/studio</td>
<td>Prerequisites: C or better in MUS 143. Taught: Fall and spring Continuation of Class Piano sequence.</td>
</tr>
<tr>
<td>MUS 263</td>
<td>Class Piano VII (1 credit)</td>
<td>0 classroom + 1.5 lab/studio</td>
<td>Prerequisites: C or better in MUS 262. Taught: Fall and spring Continuation of MUS 263.</td>
</tr>
<tr>
<td>MUS 265</td>
<td>Applied Jazz Guitar (1-2 credits)</td>
<td>0 classroom + 5-1 lab/studio</td>
<td>Taught: Fall and spring Private instruction in jazz guitar. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.</td>
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<td>MUS 266</td>
<td>Applied Jazz Percussion (1-2 credits)</td>
<td>0 classroom + 5-1 lab/studio</td>
<td>Taught: Fall and spring Private instruction in jazz percussion. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.</td>
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<tr>
<td>MUS 267</td>
<td>Applied Jazz Bass (1-2 credits)</td>
<td>0 classroom + 5-1 lab/studio</td>
<td>Taught: Fall and spring Private instruction in jazz bass. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.</td>
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<td>MUS 268</td>
<td>Applied Harp (1-2 credits)</td>
<td>0 classroom + 5-1 lab/studio</td>
<td>Taught: Fall and spring Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.</td>
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<tr>
<td>MUS 269</td>
<td>Applied Harpsichord (1-2 credits)</td>
<td>0 classroom + 5-1 lab/studio</td>
<td>Taught: Fall and spring Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.</td>
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<td>MUS 270</td>
<td>Applied Cello (1-2 credits)</td>
<td>0 classroom + 5-1 lab/studio</td>
<td>Taught: Fall and spring Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.</td>
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<td>MUS 271</td>
<td>Applied Violin (1-2 credits)</td>
<td>0 classroom + 5-1 lab/studio</td>
<td>Taught: Fall and spring Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.</td>
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<tr>
<td>MUS 272</td>
<td>Applied Violin (1-2 credits)</td>
<td>0 classroom + 5-1 lab/studio</td>
<td>Taught: Fall and spring Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.</td>
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<td>MUS 273</td>
<td>Applied Viola (1-2 credits)</td>
<td>0 classroom + 5-1 lab/studio</td>
<td>Taught: Fall and spring Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.</td>
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<tr>
<td>MUS 274</td>
<td>Applied Bass (1-2 credits)</td>
<td>0 classroom + 5-1 lab/studio</td>
<td>Taught: Fall and spring Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.</td>
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<td>MUS 275</td>
<td>Applied Flute (1-2 credits)</td>
<td>0 classroom + 5-1 lab/studio</td>
<td>Taught: Fall and spring Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.</td>
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<tr>
<td>MUS 276</td>
<td>Applied Oboe (1-2 credits)</td>
<td>0 classroom + 5-1 lab/studio</td>
<td>Taught: Fall and spring Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.</td>
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<tr>
<td>MUS 277</td>
<td>Applied Bassoon (1-2 credits)</td>
<td>0 classroom + 5-1 lab/studio</td>
<td>Taught: Fall and spring Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.</td>
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<tr>
<td>MUS 278</td>
<td>Applied Clarinet (1-2 credits)</td>
<td>0 classroom + 5-1 lab/studio</td>
<td>Taught: Fall and spring Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.</td>
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</table>
MUS 279 Applied Saxophone (1-2 credits)
Hours: 0 classroom + 5.0 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 280 Applied Trumpet (1-2 credits)
Hours: 0 classroom + 5.0 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 281 Applied French Horn (1-2 credits)
Hours: 0 classroom + 5.0 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 282 Applied Trombone (1-2 credits)
Hours: 0 classroom + 5.0 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 283 Applied Euphonium (1-2 credits)
Hours: 0 classroom + 5.0 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 284 Applied Tuba (1-2 credits)
Hours: 0 classroom + 5.0 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 285 Applied Piano (1-2 credits)
Hours: 0 classroom + 5.0 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 286 Applied Organ (1-2 credits)
Hours: 0 classroom + 5.0 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 287 Applied Voice (1-2 credits)
Hours: 0 classroom + 5.0 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 288 Applied Guitar (1-2 credits)
Hours: 0 classroom + 5.0 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 289 Applied Percussion (1-2 credits)
Hours: 0 classroom + 5.0 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 290 The Northern Chorale (0-1 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Prerequisites: Audition the first class period.
Chorale ensemble specializing in choral literature ranging from short octaves to extended works. For students majoring in voice and in music, and for musically talented general students. May be repeated for credit.

MUS 291W Advanced Writing in the Music Profession (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101.
Taught: Spring only
For students planning careers in music or who have an interest in the field. Treats writing as a process of research, revision, multiple drafts, and feedback through peer workshops and instructor conferences. Incorporates close reading and critical thinking to help students engage with the ideas of others and to discover new writing techniques.

General education credit: Written Communication II

MUS 296 Piano Proficiency (0 credits)
Hours: 0 classroom + 0 lab/studio
Taught: Fall and spring
All students majoring in music must pass a piano proficiency examination to qualify for admission to a degree program.

MUS 297 Sophomore Comprehensive Jury (0 credits)
Hours: 0 classroom + 3 lab/studio
Taught: Fall and spring
At the end of four semesters of applied study, students majoring in music must pass the Junior Standing Jury in applied music to qualify for admission to a degree program.

MUS 300 Guitar Ensemble (0-1 credits)
Hours: 0 classroom + 3 lab/studio
Taught: Fall and spring
Preparation and performance of a wide variety of literature for guitar ensemble. May be repeated for credit.

MUS 301 The Northern Chorale (0-1 credits)
Hours: 0 classroom + 3 lab/studio
Prerequisites: Audition the first class period.
Taught: Fall and spring
Chorale ensemble specializing in choral literature ranging from short octaves to extended works. For students majoring in voice and in music, and for musically talented general students. May be repeated for credit.

MUS 302 Chamber Choir (0-1 credits)
Hours: 0 classroom + 6 lab/studio
Prerequisites: Audition.
Taught: Fall and spring
A select choral ensemble specializing in a variety of the best choral literature. For music students, voice students. May be repeated for credit. All music majors and minors must fulfill their ensemble credit requirements prior to opting for the 0 cr.
MUS 303 Women's Ensemble (0-1 credits)
Hours: 0 classroom + 3 lab/studio
Taught: Fall and spring
Open to all female students. Performance of a variety of music. No audition necessary. May be repeated for credit.

MUS 304 Opera Workshop (0-2 credits)
Hours: 0 classroom + 3 lab/studio
Prerequisites: Audition.
Taught: Fall only-even years
Musical and dramatic principles and techniques required of performers in musical theatre; needs of the singing actor, class presentations of roles and scenes from standard and contemporary operas and musicals. May be repeated for credit.

MUS 305 Ensemble Accompanying (2 credits)
Hours: 0 classroom + 2 lab/studio
Prerequisites: Pre-Music Education or Music Education Majors only. Consent of instructor accompanying ensembles.
Taught: Fall and spring

MUS 306 Vocal Jazz Ensemble (0-1 credits)
Hours: 0 classroom + 3 lab/studio
Prerequisites: Audition.
Taught: Fall and spring
A select choral ensemble specializing in vocal jazz performance and literature; singing in various jazz styles, improvisational singing, microphone techniques, and balance and blend for a small ensemble. May be repeated for credit.

MUS 307 Jazz Combo (0-1 credits)
Hours: 0 classroom + 3 lab/studio
Prerequisites: Audition and consent of instructor.
Taught: Fall and spring
The course is designed to give intermediate to advanced jazz students an opportunity to explore the small group dynamic that has become an integral part of the jazz art form. Focus is on the integration of many styles under the umbrella of the jazz idiom via a wider appreciation of jazz recordings, vocabulary, styles, and arranging.

MUS 308 NKU Philharmonic (0-1 credits)
Hours: 0 classroom + 3 lab/studio
Prerequisites: audition and consent of instructor.
Taught: Fall and spring
Orchestral ensemble that rehearses and performs repertoire from the early Baroque to the present. Participation is open to all students, community members, and qualified students of the NKU Preparatory Program. May be repeated for credit.

MUS 309 Introduction to Music Education (2 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 104 or EDU 104; 48 semester hours as specified in the curriculum contract; at least 2.75 GPA; completion of pre-music curriculum required.
Taught: Spring only
Students examine the teaching profession and schooling as it currently functions in America. Emphasis on the Kentucky Education Reform Act, educational theory, and educational practice. Provides music education majors an overview of the total school music program. Observation and clinical experience required.

MUS 310 Chamber Music Ensembles (0-1 credits)
Hours: 0 classroom + 3 lab/studio
Prerequisites: Audition.
Taught: Fall and spring
Preparation and performance of traditional and contemporary literature for small orchestra; public concerts and performance for university functions. May be repeated for credit.

MUS 311 Accompanying Skills (1 credit)
Hours: 0 classroom + 1-3 lab/studio
Prerequisites: MUS 286 or consent of instructor.
Taught: Fall and spring
Introduction to the skills required of pianists in collaborative or accompanimental work with other musicians. May be repeated for credit.

MUS 312 Computer Applications for Musicians (1 credit)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MUS 123.
Taught: Fall and spring
Study of basic harmonic and melodic analysis, chord construction, rhythms, chord/scale relationships, nomenclature, and voice leading in the jazz idiom.

MUS 313 Women's Large Jazz Ensemble (0-1 credits)
Hours: 0 classroom + 3 lab/studio
Prerequisites: Audition.
Taught: Fall and spring
Preparation and performance of traditional and contemporary literature for large jazz ensemble; public concerts and performance for university functions. May be repeated for credit.

MUS 314 University Concert Band (0-1 credits)
Hours: 0 classroom + 3 lab/studio
Taught: Fall and spring
Preparation and performance of a wide variety of band literature. May be repeated for credit. Open to all students. NO audition necessary.

MUS 315 Chamber Orchestra (0-1 credits)
Hours: 0 classroom + 6 lab/studio
Prerequisites: Audition.
Taught: Fall and spring
Preparation and performance of traditional and contemporary literature for small orchestra; public concerts and performance for university functions. May be repeated for credit.

MUS 316 Symphonic Winds (0-1 credits)
Hours: 0 classroom + 6 lab/studio
Prerequisites: Auditions.
Taught: Fall and spring
Preparation of performance of traditional and contemporary literature for band; public concerts and performance for university functions. Open to all students. May be repeated for credit.

MUS 317 Jazz Ensemble (0-1 credits)
Hours: 0 classroom + 5 lab/studio
Prerequisites: Audition.
Taught: Fall and spring
Preparation and performance of traditional and contemporary literature for large jazz ensemble; public concerts and performance for university functions. May be repeated for credit.

MUS 318 Steel Drum Ensemble (0-1 credits)
Hours: 0 classroom + 3 lab/studio
Prerequisites: Audition.
Taught: Fall only
Preparation of performance of traditional and contemporary literature for steel drum ensemble; public concerts and performance for university functions. May be repeated for credit.

MUS 321 Jazz Arranging I (2 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 123, 127.
Taught: Fall only-odd years
Introduction to computer uses for musicians and their art; basic concepts of electronic music, music scoring, part writing, and desktop publishing for musical programs; word processing, spreadsheets, data bases, graphics, and communications; MIDI (musical instrument digital interface); computer ethics. Required in place of EDU 313 for students majoring in music education.

MUS 322 Jazz Arranging II (2 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 321.
Taught: Spring only-even yrs
Advanced concepts of jazz theory, composition, and arranging.

MUS 323 Jazz Theory (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 123 with a C or better.
Taught: Variable, check with department
Fundamentals of jazz music theory, including chord and scale nomenclature, common progressions, forms, and reharmonization.

MUS 324 Orchestration I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 223 or consent of instructor.
Taught: Fall only
Instrumentation and scoring for orchestral choirs and full orchestra.
COURSE DESCRIPTIONS

MUS 325 Form and Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MUS 223 and MUS 226.
Taught: Fall and spring
Harmonic, contrapuntal, and formal procedure in works of major composers; techniques of musical analysis.

MUS 326 Materials and Techniques of Music Composition (2 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 122.
Taught: Spring only
Exploration of the compositional techniques, resources, and technologies available to composers today; concentration on creative and analytical projects.

MUS 327 Counterpoint (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 223.
Taught: Fall only
Study and imitation of contrapuntal techniques and styles throughout music history, with particular focus on late Renaissance and early Baroque counterpoint.

MUS 328 Applied Composition (1-2 credits)
Hours: 0 classroom + 0.5-1 lab/studio
Prerequisites: MUS 228 and junior standing.
Taught: Fall and spring
Private or semi-private instruction in music composition. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 330 Opera Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department

MUS 331 Keyboard Literature I (2 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 230 and MUS 231 or consent of instructor.
Taught: Fall only-odd years
Keyboard literature and its development from the renaissance to the early classical period; performance practices, interpretation, and styles.

MUS 332 Keyboard Literature II (2 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 331.
Taught: Spring only-odd yrs
Keyboard literature and its development from the middle classical period to the present; performance practices, interpretation, and styles.

MUS 333 Vocal Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 230-231 or consent of instructor.
Taught: Fall only-odd years
Solo song repertoire of western world from the troubadours to the present; style, interpretation, and program building.

MUS 334 Marching Band Techniques (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 223.
Taught: Fall only
Survey of organizational and instructional issues relating to teaching marching band.

MUS 335 Conducting II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MUS 122 or consent of instructor.
Taught: Fall only
Introduction to the craft of conducting. Beat patterns, left hand, entrances, releases, dynamics, terminology, styles of articulation, and baton technique. Instrumental and choral music.

MUS 336 Choral Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 231 or consent of instructor.
Taught: Spring only-odd yrs
Choral literature from 1450 to the present; stylistic traits, types of compositions; aesthetic considerations.

MUS 337 History of Music III: Mid 19th and 20th Centuries (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 230.
Taught: Spring only
Music in western civilization from ca. 1850 to the present. Required of all students majoring in music as an upper division history and literature course.

MUS 338 Conducting I (2 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MUS 122 or consent of instructor.
Taught: Fall only
Introduction to the craft of conducting. Beat patterns, left hand, entrances, releases, dynamics, terminology, styles of articulation, and baton technique. Instrumental and choral music.

MUS 339 History of Jazz (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 130.
Taught: Spring only-odd yrs
Overview of the major stylistic periods of jazz from its origins through the late 1970’s.

MUS 340 General and Vocal Music P-8 (2 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 309, EDU 311 and Passing of Music Education Four Semester Check.
Taught: Spring only
Rhythm band and Orff instruments; review of teaching methods, review of materials in music series, methods and objectives for each grade level, KERA policies and procedures.

MUS 341 Choral Conducting (1 credit)
Hours: 0 classroom + 2 lab/studio
Prerequisites: Consent of instructor.
Taught: Fall only
Continued refinement of skills developed in MUS 352; score study techniques, terminology, and transposition.

MUS 342 Keyboard Skills I (1 credit)
Hours: 0 classroom + 2 lab/studio
Prerequisites: Consent of instructor.
Taught: Fall only
Developing proficiency in functional keyboard skills; sight-reading, transposition, harmonization, playing by ear, and improvisation.

MUS 343 Marching Band Techniques (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 231.
Taught: Fall only
Survey of organizational and instructional issues relating to teaching marching band.

MUS 344 Keyboard Skills II (1 credit)
Hours: 0 classroom + 2 lab/studio
Prerequisites: MUS 345.
Taught: Spring only-odd yrs
Continued principles and techniques of sight reading, transposition, harmonization, playing by ear, and improvisation.

MUS 345 Keyboard Skills II (1 credit)
Hours: 0 classroom + 2 lab/studio
Prerequisites: MUS 345.
Taught: Spring only-odd yrs
Continued principles and techniques of sight reading, transposition, harmonization, playing by ear, and improvisation.

MUS 346 Keyboard Skills II (1 credit)
Hours: 0 classroom + 2 lab/studio
Prerequisites: MUS 345.
Taught: Spring only-odd yrs
Continued principles and techniques of sight reading, transposition, harmonization, playing by ear, and improvisation.

MUS 350 Music Technology I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 350.
Taught: Fall and spring
Fundamental techniques, equipment and applications of contemporary music technology. Computer and internet software will be studied as potential tools for education, composition and performance. Aspects of MIDI, analog and digital audio, acoustics, music notation software, and multimedia will be examined.

MUS 351 Music Technology II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 350.
Taught: Fall and spring
Advanced course in electroacoustic music and computer applications in music. MIDI studio set-ups; intermediate to advanced applications in sequencing and scoring software; introduction to digital recording techniques with applications in film, video, broadcasting and multimedia; introduction to writing for multimedia and instruction.

MUS 352 Conducting I (2 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MUS 122 or consent of instructor.
Taught: Fall only
Introduction to the craft of conducting. Beat patterns, left hand, entrances, releases, dynamics, terminology, styles of articulation, and baton technique. Instrumental and choral music.

MUS 353 Conducting II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MUS 352 or consent of instructor.
Taught: Spring only
Continued refinement of skills developed in MUS 352; score study techniques, terminology, and transposition.

MUS 354 Lyric Diction I (1 credit)
Hours: 1 classroom + 0 lab/studio
Prerequisites: MUS 123, 127, and 4 semester hours of MUS 187.
Taught: Fall only
A phonetic study of English, Latin, and Italian as utilized by the singer. Readings and performances of song lyrics.
MUS 355 Lyric Diction II (1 credit)
Hours: 1 classroom + 0 lab/studio
Prerequisites: MUS 354.
Taught: Spring only-odd yrs
A phonetic study of German and French as utilized by the singer. Readings and performances of song lyrics.

MUS 356 Mixing Techniques I (3 credits)
Hours: 3 classroom +0 lab/studio
Prerequisites: MUS 312.
Taught: Fall and spring
This course covers the fundamentals and practical applications of digital audio systems, as well as methods for functioning in integrated Digital Audio Workstation (DAW) & Studio environments. Course topics include system setup and interconnections, and synchronization; aspects of digital recording consoles/mixers, such as paged architecture, I/O, work clock, sample rate, and bit depth; and basics of a DAW, such as the elements of hard-disk recording, track and file management, digital audio, and sequencing strategies. Emphasis on Pro Tools as the main DAW used.

MUS 357 Mixing Techniques II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 356.
Taught: Fall and spring
A study of the functional operation of equipment used in multi-track mixing of digital master recordings in a digital audio workstation environment. There will be an emphasis on critical listening and aesthetic consideration. Topics covered will include common DAW procedures and protocol, data management, mixing using a reference, signal flow, editing, and digital signal processing (plug-ins). Mixing exercises of pre-recorded multi-track files.

MUS 358 Commercial Music Production I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 312.
Taught: Fall and spring
Roles and responsibilities of music producers and engineers from idea inception to finished product. An overview of studio technologies and basic recording procedures.

MUS 359 Commercial Music Production II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MUS 358.
Taught: Fall and spring
An in-depth, project-oriented class designed to give the student intensive exposure to the creative and technical issues involved in advanced music editing and CD (and DVD) mastering, including multimedia formats and Internet audio. Further areas of exploration include, but are not limited to, surround audio, audio restoration and forensic audio.

MUS 360 Composition for Commercial Media (3 credits)
Hours: 3 classroom +0 lab/studio
Prerequisites: MUS 223 and MUS 312.
Taught: Fall and spring
Application of the foundations of music technology to media including film, gaming, television, and other visual mediums.

MUS 361 Advanced Music Production (3 credits)
Hours: 3 classroom +0 lab/studio
Prerequisites: EMB 320.
Taught: Variable, check with department
The course is an intensive, project-oriented audio production course. Topics will include, but are not limited to: audio for media, applied media aesthetics, sound design, as well as creative and artistic approaches to various types of sophisticated audio production including music recording and radio production.

MUS 362 Piano Pedagogy III (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Fall only-odd yrs
Intermediate level; teaching teens and adults; creative practicing; piano technique; survey of materials and literature appropriate for this level; business procedures for the independent music studio.

MUS 363 Piano Pedagogy IV (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Spring only-even yrs
Advanced level; repertoire; philosophies of schools of piano playing; treat pianists and their teaching; productive practicing; performance practices; literature and materials appropriate to this level; business procedures for the independent music studio.

MUS 364 Applied Jazz Piano (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 164.
Taught: Fall and spring
Private instruction in jazz piano. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 365 Applied Jazz Guitar (1-2 credits)
Hours: 0 classroom + 5-1 lab/studio
Taught: Fall and spring
Private instruction in jazz guitar. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 366 Applied Jazz Percussion (1-2 credits)
Hours: 0 classroom + 5-1 lab/studio
Taught: Fall and spring
Private instruction in jazz percussion. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 367 Applied Jazz Bass (1-2 credits)
Hours: 0 classroom + 5-1 lab/studio
Taught: Fall and spring
Private instruction in jazz bass. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 368 Applied Harp (1-2 credits)
Hours: 0 classroom + 5-1 lab/studio
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 369 Applied Harpsichord (1-2 credits)
Hours: 0 classroom + 5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 370 Applied Piano Accompanying (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.
MUS 371 Applied Violin (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 372 Applied Viola (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 373 Applied Cello (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 374 Applied Bass (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 375 Applied Flute (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 376 Applied Oboe (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 377 Applied Bassoon (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 378 Applied Clarinet (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 379 Applied Saxophone (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 380 Applied Trumpet (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 381 Applied French Horn (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 382 Applied Trombone (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 383 Applied Euphonium (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 384 Applied Tuba (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 385 Applied Piano (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.
MUS 386 Applied Organ (1-2 credits)  
Hours: 0 classroom + .5-1 lab/studio  
Prerequisites: MUS 297.  
Taught: Fall and spring  
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minorin in music; other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 387 Applied Voice (1-2 credits)  
Hours: 0 classroom + .5-1 lab/studio  
Prerequisites: MUS 297.  
Taught: Fall and spring  
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minorin in music; other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 388 Applied Guitar (1-2 credits)  
Hours: 0 classroom + .5-1 lab/studio  
Prerequisites: MUS 297.  
Taught: Fall and spring  
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minorin in music; other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 389 Applied Percussion (1-2 credits)  
Hours: 0 classroom + .5-1 lab/studio  
Prerequisites: MUS 297.  
Taught: Fall and spring  
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minorin in music; other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 394 Special Topics in Music (1-3 credits)  
Hours: 1-3 classroom + 0 lab/studio  
Prerequisites: Junior standing or consent of instructor.  
Taught: Fall and spring  
In-depth study of specialized topics in music. May be repeated for credit up to 9 semester hours when topics vary.

MUS 397 Junior Recital (0 credits)  
Hours: 0 classroom + 0 lab/studio  
Prerequisites: consent of instructor.  
Taught: Fall and spring  
Students majoring in applied music and music education must give a one half hour junior recital prior to graduation. A recital jury audition must be passed at least one month prior to the public performance.

MUS 399 Independent Study: Music (1-3 credits)  
Hours: 1-3 classroom + 0 lab/studio  
Prerequisites: consent of instructor.  
Taught: Fall and spring  
Individual creative or research projects; projects, directed by members of the faculty, must be approved before registration. May be repeated for credit.

MUS 424 Jazz Pedagogy (2 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: MUS 339.  
Taught: Fall and spring  
An in depth study of the techniques, processes, and management of a jazz program in the school setting.

MUS 426 Jazz Styles and Analysis (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: MUS 239, 322, 339, and 8 semester hours of applied music.  
Taught: Fall and spring  
Capstone course utilizing information from previous courses to better understand the social, musical, and cultural implications of jazz.

MUS 428 Applied Composition (1-2 credits)  
Hours: 0 classroom + .5-1 lab/studio  
Prerequisites: MUS 328 and junior standing.  
Taught: Fall and spring  
Private or semi-private instruction in music composition. May be repeated for credit. 1/2 contact hour=1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 442 Choral Methods I (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: EDU 311 and C or better in MUS 352 and Passing of Music Education Four Semester Check.  
Taught: Spring only  
This course integrates formal knowledge in the university classroom with field experiences in order to prepare pre-service music educators to teach P–12 instrumental music students in their first two years of instrumental music class.

MUS 443 Choral Methods II (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: EDU 311 and C or better in MUS 352 and Passing of Music Education Four Semester Check.  
Taught: Fall only  
This course is designed to prepare choral-emphasis music education majors to synthesize the knowledge and skills that will enable them to develop and maintain a comprehensive choral music program at the secondary level.

MUS 445 Instrumental Methods I (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: EDU 311 and C or better in MUS 352 and Passing of Music Education Four Semester Check.  
Taught: Fall only  
This course is designed to prepare instrumental-emphasis music education majors to synthesize the knowledge and skills that will enable them to develop and maintain a comprehensive instrumental music program at the secondary level.

MUS 446 Vocal Pedagogy (2 credits)  
Hours: 2 classroom + 0 lab/studio  
Prerequisites: Consent of instructor.  
Taught: Fall only-odd years  
Directed readings, discussions and evaluations of vocal pedagogical philosophies; studies of the teaching materials and physical and psychological problems in the teaching of voice; observation of voice lessons and supervised teaching.

MUS 464 Applied Jazz Piano (1-2 credits)  
Hours: 0 classroom + .5-1 lab/studio  
Taught: Fall and spring  
Private instruction in jazz piano. Open to students majoring or minorin in music; other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 465 Applied Jazz Piano (1-2 credits)  
Hours: 0 classroom + .5-1 lab/studio  
Taught: Fall and spring  
Private instruction in jazz guitar. Open to students majoring or minorin in music; other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.
hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 466 Applied Jazz Percussion (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Taught: Fall and spring
Private instruction in jazz percussion. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 467 Applied Jazz Bass (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Taught: Fall and spring
Private instruction in jazz bass. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 468 Applied Harp (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: Placement test. Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 469 Applied Harpsichord (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 470 Applied Piano Accompanying (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 471 Applied Violin (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 472 Applied Viola (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 473 Applied Cello (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 474 Applied Bass (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 475 Applied Flute (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 476 Applied Oboe (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 477 Applied Bassoon (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 478 Applied Clarinet (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 479 Applied Saxophone (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 480 Applied Trumpet (1-2 credits)
Hours: 0 classroom + .5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.
MUS 481 Applied French Horn (1-2 credits)
Hours: 0 classroom + 5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 482 Applied Trombone (1-2 credits)
Hours: 0 classroom + 5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 483 Applied Euphonium (1-2 credits)
Hours: 0 classroom + 5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 484 Applied Tuba (1-2 credits)
Hours: 0 classroom + 5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 485 Applied Piano (1-2 credits)
Hours: 0 classroom + 5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 486 Applied Organ (1-2 credits)
Hours: 0 classroom + 5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 487 Applied Voice (1-2 credits)
Hours: 0 classroom + 5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 488 Applied Guitar (1-2 credits)
Hours: 0 classroom + 5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 489 Applied Percussion (1-2 credits)
Hours: 0 classroom + 5-1 lab/studio
Prerequisites: MUS 297.
Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 496 Senior Capstone (0-4 credits)
Hours: 0 classroom + 0-4 lab Hours
Prerequisites: MUS 297.
Taught: Variable, check with department
Bachelor of Arts majors only. An independent project under close supervision of a faculty member: a recital, an internship, a research paper, a creative project, or a collaboration. A proposal must be approved by the department chair and three full-time faculty including the project supervisor by midterm of the preceding semester.

MUS 497 Senior Recital (0 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Fall and spring
Students majoring in applied music must give a one hour senior recital prior to graduation. A recital jury audition must be passed at least one month prior to the public performance.

Neuroscience Courses (NEU)

NEU 493 Cognitive Neuroscience Seminar (1 credit)
Hours: 1 classroom + 0 lab/studio
Prerequisites: PSY 311 or consent of instructor.
Taught: Spring only
Serves as a capstone experience for students in the neuroscience minor. Readings and discussions directed at large-scale issues in neuroscience, typically achieved through review of the current literature. Intended to stimulate critical thinking and integration of material learned in earlier courses in the neuroscience minor.

Nursing Registered Professional Courses (NRP)

NRP 316L Evaluation of Clinical Performance (1-8 credits)
Hours: 0 classroom + 1-8 lab/studio
Prerequisites: Admission to RN-BSN program. Co-requisites: NRP 317L.
Taught: Variable, check with department
Demonstration of cognitive and technical skills in provision of client care under supervision of faculty; use of nursing process as a framework for client care across developmental levels in various settings.

NRP 317L Decision Making in Nursing (1-7 credits)
Hours: 0 classroom + 12 lab/studio
Co-requisites: NRP 316L.
Taught: Variable, check with department
Demonstration of cognitive and critical thinking skills in making decisions in standardized clinical CAI situations; use of nursing process as a decision making framework.

NRP 399 Independent Study (1-3 credits)
Hours: NA classroom + NA lab/studio
Prerequisites: Consent of instructor and program director prior to registration.
Taught: Variable, check with department
Individual readings, research, and/or projects relating to professional nursing practice and developed by students in consultation with faculty prior to registration; written agreement to include purpose, objectives, instructional activities, time frame, and evaluation method. Not intended to substitute for any course offered on a regular basis.
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
<th>Taught</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRP 401</td>
<td>Theories and Concepts of Professional Nursing</td>
<td>3</td>
<td>Admission to RN/BSN program</td>
<td>Fall</td>
<td>3</td>
<td>Concepts and theories providing the foundation for the advanced professional nursing role; relationships between client, nurse, health, and environment to foster congruent role behavior of the registered nurse student and advanced professional nursing practice.</td>
</tr>
<tr>
<td>NRP 410</td>
<td>Nursing Research</td>
<td>3</td>
<td></td>
<td>Fall</td>
<td>3</td>
<td>Overview of the research process in nursing; historical development of nursing research; role of research in scientific advancement nursing; development of ability to critique clinical nursing research studies.</td>
</tr>
<tr>
<td>NRP 411</td>
<td>Holistic Nursing Assessment</td>
<td>2</td>
<td></td>
<td>Fall</td>
<td>3</td>
<td>Principles of holistic health assessment of existing and potential client problems with a view toward planning nursing care.</td>
</tr>
<tr>
<td>NRP 413L</td>
<td>Nursing Assessment Laboratory</td>
<td>1</td>
<td>NRP 411 and NRP 415</td>
<td>Fall</td>
<td>3</td>
<td>Application of holistic health assessment techniques in the laboratory setting.</td>
</tr>
<tr>
<td>NRP 415L</td>
<td>Nursing Assessment Practicum</td>
<td>2</td>
<td>NRP 411 and NRP 413</td>
<td>Fall</td>
<td>3</td>
<td>Application of nursing history and physical assessment techniques in formulating nursing diagnosis for individual clients in a variety of settings.</td>
</tr>
<tr>
<td>NRP 434</td>
<td>Theories in Nursing</td>
<td>3</td>
<td>NRP 401 and NRP 410</td>
<td>Spring</td>
<td>3</td>
<td>Study of the nature of theory development in nursing with emphasis on the evolution of the science of nursing. Evaluation of selected nursing theories as they relate to professional nursing practice.</td>
</tr>
<tr>
<td>NRP 435</td>
<td>Nursing in the Community</td>
<td>3</td>
<td>NRP 401, NRP 410, NRP 411, NRP 413L, and NRP 415L</td>
<td>Spring</td>
<td>0</td>
<td>Overview of the research pr</td>
</tr>
<tr>
<td>NRP 435L</td>
<td>Nursing in Community Practicum</td>
<td>6</td>
<td>NRP 435</td>
<td>Spring</td>
<td>0</td>
<td>A variety of community agencies serving a diverse population and defined risk groups; teaching, screening, case finding, referral, and evaluation of community health services.</td>
</tr>
<tr>
<td>NRP 441</td>
<td>Nursing Leadership</td>
<td>3</td>
<td>NRP 401, NRP 410, NRP 411, NRP 413L, NRP 415L, NRP 434, and NRP 435/435L</td>
<td>Fall</td>
<td>3</td>
<td>Nursing leadership concepts and functions in nursing environments; selected theories of leadership and management; collaboration for decision making and effecting change for experienced nurses.</td>
</tr>
<tr>
<td>NRP 441L</td>
<td>Nursing Leadership Practicum</td>
<td>6</td>
<td>NRP 441</td>
<td>Fall</td>
<td>3</td>
<td>Integration of didactic content in a practice setting for experienced nurses; clinical experience in a selected healthcare agency in a leadership role with an approved preceptor.</td>
</tr>
<tr>
<td>NRP 470</td>
<td>Role Transformation</td>
<td>3</td>
<td>NRP 401, NRP 410, NRP 411, NRP 413L, NRP 415L, NRP 434, and NRP 435/435L</td>
<td>Spring</td>
<td>0</td>
<td>Examines the foundations of leadership and management theories and concepts in a variety of healthcare settings. or COREQ: NRP 471</td>
</tr>
</tbody>
</table>
NRP 478 Nursing Leadership Practicum (4 credits)
Hours: 4 classroom + 0 lab/studio
Prerequisites: NRP 470; NRP 471; NRP 472; NRP 473; NRP 474; NRP 475; NRP 477; HIN 355.
Co-requisites: NRP 476.
Taught: Variable, check with department
A culminating experience integrating knowledge from previous courses to design, implement and lead an interdisciplinary team project to improve outcomes in an appropriate health care or community-based setting.

NRP 494 Topics: Special Topics in Nursing (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Permission of instructor.
Taught: Variable, check with department
This course is a special topics course of a current interest/issue in the field of nursing not covered in other nursing courses. The special topics for this class are selected from current topics in the field of nursing. Depending on the topic, the course may be a didactic or clinical practicum course.

NRP 499 Independent Study in Nursing (1-3 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: Admission to the RN to BSN program and consent of the program director.
Taught: Variable, check with department
Individual readings, research, and/or projects relating to professional nursing practice and developed by students in consultation with faculty prior to registration; written agreement to include purpose, objectives, instructional activities, time frame, and evaluation method. Not intended to substitute for any course offered on a regular basis. Applicable for upper division credit only.

NRP 509 Curriculum Development in Nursing (2 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to RN-MSN or MSN program.
Taught: Fall only
Overview of the process of curriculum development and evaluation; principles of assessment, design, planning, implementation, and evaluation; program development and outcome evaluation in various nursing education settings; differences in patient, community, continuing, and professional education. Open to Registered Nurses only.

NRP 510 Educational Foundations in Nursing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: NRP 509.
Taught: Spring only
Principles of teaching, learning and adult education discussed. The various nursing education settings-classroom, clinical, staff development and community-and teaching methods associated with those settings presented and analyzed. Both small and large group techniques described. Open to Registered Nurses only.

NRP 530 Introduction to Simulation (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Baccalaureate degree in approved discipline of study.
Taught: Variable, check with department
Using the “Standards of Best Practice: Simulation” developed by the International Nursing Association for Clinical Simulation and Learning this course will investigate the utilization of simulation as a teaching and learning strategy in classroom and acute care settings.

NRP 531 Best Practices in Simulation (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: NRP 530 and baccalaureate in approved discipline.
Taught: Variable, check with department
This course builds upon the introductory course to discuss simulation lab design, financial management of a simulation center and best practices utilized in simulation centers today.

NRP 532L Simulation Practicum (3 credits)
Hours: 0 classroom + 6 lab/studio
Prerequisites: NRP 530 and NRP 531.
Taught: Variable, check with department
Capstone clinical course in which the student will spend an intensive one week in the simulation laboratory at Northern Kentucky University refining and defining previously achieved knowledge, skills and attitudes.

Nursing Baccalaureate Courses (NRS)

NRS 210L Development of Clinical Nursing Skills (2 credits)
Hours: 0 classroom + 4 lab/studio
Prerequisites: BIO 208, BIO 209L, BIO 126, CHE 115, CHE 115L, PSY 220, and STA 205 or STA 212.
Co-requisites: NRS 215, NRS 215P, NRS 220 and NRS 220L.
Prerequisite OR Co-requisite: BIO 202 and BIO 202L.
Taught: Fall and spring
Active learning pedagogy of skills demonstration, supervised practice, simulation and skills testing for the acquisition of basic and complex nursing skills required for professional practice.

NRS 215 Fundamental Concepts of Professional Nursing Practice (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 208, BIO 209L, BIO 126, CHE 115, CHE 115L and PSY 220.
Co-requisites: NRS 210L and NRS 215P.
Taught: Fall and spring
Introduction to the nursing process, foundational nursing concepts, and theories relevant to the implementation of nursing care and health promotion to clients across the lifespan.

NRS 215P Fundamentals of Professional Nursing Practice (2 credits)
Hours: 0 classroom + 4 lab/studio
Prerequisites: BIO 208, BIO 209L, BIO 126, CHE 115, CHE 115L and PSY 220.
Co-requisites: NRS 215.
Taught: Fall and spring
Application of foundational concepts and theories necessary for the care of clients in hospitals and extended care facilities performance of basic nursing skills under supervision of nursing clinical faculty.

NRS 220 Holistic Health Assessment of the Adult (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: BIO 208, BIO 209L, BIO 126, CHE 115, CHE 115L and PSY 220.
Co-requisites: NRS 220L.
Taught: Fall and spring
Principles of assessment of existing or potential client problems Physical condition, psychological status, development level, sociocultural-economic history with the goal of planning nursing care.

NRS 220L Holistic Health Assessment Laboratory (1 credit)
Hours: 0 classroom + 2 lab/studio
Prerequisites: BIO 208, BIO 209L, BIO 126, CHE 115, CHE 115L and PSY 220.
Co-requisites: NRS 220.
Taught: Fall and spring
Application of holistic health assessment techniques in the laboratory setting.

NRS 250 Introduction to Medical-Surgical Nursing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: NRS 215 and NRS 220.
Co-requisites: NRS 255 and NRS 250P.
Taught: Fall and spring
Concepts and theories needed to support adaptation of clients requiring multiple nursing interventions for health maintenance and for commonly occurring alterations in health status.
NRS 250P Introduction to Medical-Surgical Nursing Practicum (4 credits)
Hours: 0 classroom + 8 lab/studio
Co-requisites: NRS 250 and NRS 255.
Taught: Fall and spring
Application of theoretical concepts in the delivery of nursing care for adult clients.

NRS 255 Pathophrarm and Principles (4 credits)
Hours: 4 classroom + 0 lab/studio
Prerequisites: NRS 215 and NRS 220.
Co-requisites: NRS 250 and NRS 250P.
Taught: Fall and spring
Pathophysiological and pharmacological concepts essential for understanding and treating alterations in organ and system function basic to nursing practice.

NRS 299 Independent Study (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Admission to the BSN program and consent of instructor.
Taught: Fall and spring
Individual readings, research, and/or projects relating to professional nursing practice and developed by students in consultation with faculty prior to registration; written agreement to include purpose, objectives, instructional activities, time frame, and evaluation method. Not intended to substitute for any course offered on a regular basis. Applicable for lower division credit only.

NRS 300 Remediation (1 credit)
Hours: 1 classroom + 0 lab/studio
Co-requisites: NRS 310 and NRS 315.
Taught: Fall and spring
Required course for students who score below the benchmark score of 850 on the customized MIDCURRICULAR exam which consists of guided remediation of prior curricular content.

NRS 310 Concepts of Community and Public Health Nursing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: NRS 250.
Co-requisites: NRS 310P, NRS 320, NRS 330 and NRS 339L.
Taught: Fall and spring
Principles of population based nursing care in community settings, health promotion, health education, epidemiology, community health problems, health policy and advocacy.

NRS 310P Concepts of Community and Public Health Nursing Practicum (2 credits)
Hours: 0 classroom + 4 lab/studio
Co-requisites: NRS 310.
Taught: Fall and spring
Serving in a variety of community agencies, the health status of diverse client groups, who are defined as at risk groups, are evaluated and health needs met through a population assessment, teaching, screening and evaluation of community health.

NRS 315 Theories and Concepts of Professional Nursing Practice (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: NRS 250.
Co-requisites: NRS 310, NRS 320.
Taught: Fall and spring
Study of the nature of theory development in nursing. Evaluation of selected nursing theories as they relate to professional nursing practice.

NRS 320 Principles of Research for Application to Professional Nursing Practice (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: NRS 250 and NRS 255.
Co-requisites: NRS 330 and NRS 339L.
Taught: Fall and spring
Overview of the research process for nursing professionals, historical development of research in healthcare, role of research in scientific advancement of nursing; development of ability to critique clinical healthcare studies and become knowledgeable consumers when integrating nursing research into practice.

NRS 330 Principles of Psychiatric and Mental Health Nursing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: NRS 250 and NRS 255.
Co-requisites: NRS 310 and NRS 330P.
Taught: Fall and spring
Concepts and theories to support nursing practice across the lifespan along the mental health continuum for all.

NRS 330P Psychiatric and Mental Health Nursing Practicum (2 credits)
Hours: 0 classroom + 4 lab/studio
Co-requisites: NRS 330.
Taught: Fall and spring
Application of concepts and theories to support nursing practice across the lifespan along the mental health continuum for all.

NRS 339L Clinical Reasoning I (1 credit)
Hours: 0 classroom + 2 lab/studio
Prerequisites: NRS 260.
Co-requisites: NRS 310 and NRS 330.
Taught: Fall and spring
Clinical reasoning and judgment are examined in relation to other modes of thinking used in providing quality health care. Students will be expected to demonstrate how safe, high-quality care can be dependent upon their ability to reason, think, and make evidence based decisions.

NRS 350 Intermediate Medical-Surgical Nursing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: NRS 310, NRS 315, NRS 320.
Taught: Fall and spring
Concepts and theories to support adaptation of clients requiring multiple nursing interventions.

NRS 350P Intermediate Medical-Surgical Nursing Practicum (2 credits)
Hours: 0 classroom + 4 lab/studio
Co-requisites: NRS 350.
Taught: Fall and spring
Application of concepts and theories needed to support adaptation of adults requiring multiple nursing interventions in acute care settings.

NRS 360 Principles of OB and Newborn Nursing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: NRS 310 and NRS 330.
Co-requisites: NRS 350 and NRS 370.
Taught: Fall and spring
Explores the cultural and nutritional aspects; communication techniques, pharmacotherapy, teaching and learning concepts, and nursing roles involved in health promotion, protection and crisis management of the childbearing client and family.

NRS 360P Principles of OB and Newborn Nursing Practicum (2 credits)
Hours: 0 classroom + 4 lab/studio
Co-requisites: NRS 360.
Taught: Fall and spring
Application of concepts of health promotion and crisis management in the care of childbearing families.

NRS 370 Legal, Ethical, and Professional Issues (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: NRS 310 and NRS 330.
Co-requisites: NRS 350 and NRS 360.
Taught: Fall and spring
Emerging trends in nursing education, professional nursing practice; study of ethical frameworks and legal factors influencing decision-making in nursing practice.

NRS 400 Remediation Seminar (1 credit)
Hours: 2 classroom + 0 lab/studio
Co-requisites: NRS 450.
Taught: Variable, check with department BSN Program elective that entails a systematic review of curriculum material tailored to the aggregate results of the RN-EXIT V1 results. This course is open to all last-semester BSN majors and is strongly recommended for those students who score <900 on the RN-EXIT V1.

NRS 415 Principles of Pediatric Nursing (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: NRS 350 and 360.
Co-requisites: NRS 415P, NRS 420, NRS 439L and NRS 440P.
Prerequisite OR Co-requisite: INF 355.
Taught: Fall and spring
Concepts and theories to promote health and support care for children and families in pediatric settings.
NRS 415P Pediatric Nursing Practicum (2 credits)
Hours: 0 classroom + 4 lab/studio
Co-requisites: NRS 415.
Taught: Fall and spring
Application of concepts and theories in the care of children and their families.

NRS 420 Concepts and Principles of Leadership Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: NRS 350 and NRS 360.
Co-requisites: NRS 415 and NRS 440P.
Taught: Fall and spring
Leadership concepts and management functions in healthcare environments; selected theories of leadership and management; collaboration for decision-making and effecting change.

NRS 439L Clinical Reasoning II (1 credit)
Hours: 0 classroom + 2 lab/studio
Prerequisites: NRS 350 and NRS 360.
Co-requisites: NRS 415 and NRS 420.
Taught: Fall and spring
Advanced application of clinical reasoning to integrate simulated patient scenarios. Assessment and analysis of the scenario, and implementation and evaluation; planning decisions will be critiqued in relation to their theoretical accuracy and patient care priorities.

NRS 440P Nursing Capstone 1 (2 credits)
Hours: 0 classroom + 4 lab/studio
Prerequisites: NRS 350 and NRS 360.
Co-requisites: NRS 415 and NRS 420.
Taught: Fall and spring
Under close faculty guidance the student will be placed with a clinical preceptor to: (1) conduct a needs assessment within their identified clinical or community setting identifying a nursing problem; (2) develop a written proposal to address the problem; (3) implement the intervention in the chosen setting with the preceptor.

NRS 450 Advanced Medical-Surgical Nursing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: NRS 415.
Co-requisites: NRS 450P.
Taught: Variable, check with department
Concepts and theories needed to provide nursing care of people for prevention of and assistance with complex health problems.

NRS 465P Transition to the Professional Practice Role (4 credits)
Hours: 0 classroom + 8 lab/studio
Prerequisites: NRS 415.
Co-requisites: NRS 450 and NRS 450P.
Taught: Variable, check with department
Clinical practice for role of professional nurse in a supportive environment; opportunities to manage and prioritize care for groups of clients, increase clinical competence; delegate nursing care to other healthcare workers; discuss issues affecting healthcare/nursing professionals.

NRS 470P Nursing Capstone 2 (1 credit)
Hours: 0 classroom + 2 lab/studio
Prerequisites: NRS 440P.
Co-requisites: NRS 450.
Taught: Variable, check with department
Second of two capstone courses in which the student evaluates the outcomes from the implementation of their capstone project. In addition, the student will be required to communicate their scholarly work via a professional forum.

NRS 494 Special Topics: Bachelor of Science Nursing (1-4 credits)
Hours: 1-4 classroom + 1-4 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Various advanced topics in nursing.

NRS 499 Independent Study (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Admission to the BSN program and consent of the BSN Program Director.
Taught: Fall and spring
Individual readings, research, and/or projects relating to professional nursing practice and developed by students in consultation with faculty prior to registration; written agreement to include purpose, objectives, instructional activities, time frame, and evaluation method. Not intended to substitute for any course offered on a regular basis. Applicable for upper division credit only.

Public Administration Courses (PAD)

PAD 300 Introduction to Public Administration (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Fall and spring
Governmental administration, primarily U.S.; development of the discipline and its methodology; organization, personnel, and budgeting problems; administrative control and accountability.

PAD 394 Special Topics in Public Administration (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department

PAD 401 Human Resource Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Spring only
Principles and problems of recruitment, examination procedures, rating, classification, and assignment to the job; philosophies of pay, promotion, employee motivation and discipline; formulating and administering public personnel policies; concepts and principles in selecting governmental personnel systems; American national, state, and local personnel systems.

PAD 403 Public Policy (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Course introduces students to the policy making process by providing an introduction to public policy, providing an overview of the formation, implementation, quantitative and qualitative evaluation, and ethical aspects of policy making.

PAD 412 Administrative Law (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Spring only
Nature of the powers vested in administrative agencies; problems of administrative procedure; methods and extent of judicial control over administrative action.

PAD 420 Managing the Not-For-Profit Organization (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Spring only
Development and characteristics of the not-for-profit organization; managerial challenges; application of relevant theories to the not-for-profit organization; organization, staffing, planning, programming, evaluating, board-staff relations; managing volunteers.

PAD 455 Urban Administration (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Variable, check with department
Public management issues and approaches in the modern city; governmental policy making and organizational structure in an urban environment; managerial processes for selecting, motivating, leading, and evaluating public employees; resources management; productivity in service delivery.
PAD 494 Topics: Public Administration (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Variable, check with department
Topics vary from semester to semester. See Schedule of Classes for topic and prerequisites. May be repeated.

PAD 496 Internship in Public Administration (1-15 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Students must have the consent of Internship Coordinator.
Taught: Fall, spring, and summer
Students may enroll for real-world experiential credit with public or private hosts.

PAD 498 Public Service Practicum (1-6 credits)
Hours: 0 classroom + 1-6 lab/studio
Prerequisites: Consent of internship coordinator.
Taught: Variable, check with department
This course is an opportunity to apply classroom learning to a practical setting in a government, nonprofit or related organization in the Northern Kentucky/Greater Cincinnati region, the state capital of Frankfort, or another locale. Students may be involved with program implementation, policy making, budgeting and/or other public service activities.

PAD 499 Independent Study in Public Service (3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Consent of program coordinator.
Taught: Variable, check with department
This course is designed to prepare, motivate, and engage students in various low to medium impact aerobic exercises. Aerobic conditioning is structured to increase cardiovascular fitness through safe and specific slow stretching and toning activities designed to help release stress while elongating muscles.

PAD 501 Budgeting Techniques and Applications (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Advanced treatment of budgetary techniques and applications, such as program budgeting and zero-base budgeting; financial planning and revenue estimation techniques; tax and expenditure types; debt financing; financial reporting.

PAD 509 Introduction to Remote Sensing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to MPA program or consent of MPA director.
Taught: Variable, check with department
Introduction to principles and concepts of remote sensing technologies; hands-on experience in manipulation of remote sensing techniques using remote sensing software. Emphasizes understanding and implementation of remote sensing theories and research into relevant topics.

PAD 520 Advanced Remote Sensing (4 credits)
Hours: 3 classroom + 1 lab/studio
Prerequisites: PAD 519.
Taught: Variable, check with department
Introduction to principles and concepts of digital remote sensing data processing technologies; hands-on experience in manipulation of digital remote sensing data processing techniques using remote sensing software. Emphasizes understanding and implementation of digital remote sensing data processing theories and research into relevant topics.

PAD 560 Planning and Community Development (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Statutory and structural framework for urban planning and development; technical, social, political, and economic elements in the governmental planning process; planning theories and regulatory techniques; growth management; urban redevelopment.

Physical Education Courses (PHE)

PHE 104 Badminton (1 credit)
Hours: 0 classroom + 2 lab/studio
Taught: Spring only
Development of skills, knowledge, strategies, and attitudes in the sport of badminton.

PHE 108 Aerobic Conditioning (1 credit)
Hours: 0 classroom + 2 lab/studio
Taught: Fall only
This is a physical activity course designed to prepare, motivate, and engage students in various low to medium impact aerobic exercises. Aerobic conditioning is structured to increase cardiovascular fitness through safe and specific body conditioning exercises.

PHE 109 Strength Training (1 credit)
Hours: 0 classroom + 2 lab/studio
Taught: Fall and spring
This is a physical activity course designed to introduce students to strength training as a lifelong activity. Proper techniques and training principles will be taught using different types of resistance training.

PHE 110 Golf (1 credit)
Hours: 0 classroom + 2 lab/studio
Taught: Fall, spring, and summer
Development of skills, knowledge, strategies, and attitudes in specific golf activities.

PHE 111 Yoga (1 credit)
Hours: 0 classroom + 2 lab/studio
Taught: Fall and spring
This is a physical activity course designed to familiarize students with the basic postures and breathing techniques of Hatha yoga, including slow stretching and toning activities designed to help release stress while elongating muscles.

PHE 112 Snow Skiing - Snow Boarding (1 credit)
Hours: 0 classroom + 2 lab/studio
Taught: Spring only
This is a physical activity course designed to instruct students in the fundamentals of snow skiing and snow boarding. The class is conducted at a local snow skiing facility. Students are charged an additional fee that includes rental of ski equipment and use of facilities.

PHE 114 Karate (1 credit)
Hours: 0 classroom + 2 lab/studio
Taught: Fall and spring
Development of skills, knowledge, strategies, and attitudes in the sport of karate.

PHE 118 Swimming (1 credit)
Hours: 0 classroom + 2 lab/studio
Taught: Fall, spring, and summer
Development of skills, knowledge, strategies, and attitudes in specific swimming activities.

PHE 120 Tennis (1 credit)
Hours: 0 classroom + 2 lab/studio
Taught: Fall, spring, and summer
Development of skills, knowledge, strategies, and attitudes in specific tennis activities.

PHE 122 Volleyball (1 credit)
Hours: 0 classroom + 2 lab/studio
Taught: Fall and spring
Development of skills, knowledge, strategies, and attitudes in the sport of volleyball.

PHE 210 Intermediate Golf (1 credit)
Hours: 0 classroom + 2 lab/studio
Taught: Fall and spring
Refinement of skills, knowledge, strategies, and rules related to intermediate level performance of activities. For students already skilled at the Intermediate level in the activity.
PHE 241 Intermediate Karate (1 credit)
Hours: 0 classroom + 2 lab/studio
Taught: Fall and spring
Refinement of skills, knowledge, strategies, and rules related to intermediate level performance of activities. For students already skilled at the Intermediate level in the activity.

PHE 248 Intermediate Swimming (1 credit)
Hours: 0 classroom + 2 lab/studio
Taught: Fall and spring
Refinement of skills, knowledge, strategies, and rules related to intermediate level performance of activities. For students already skilled at the Intermediate level in the activity.

PHE 220 Intermediate Tennis (1 credit)
Hours: 0 classroom + 2 lab/studio
Taught: Variable, check with department
Refinement of skills, knowledge, strategies, and rules related to intermediate level performance of activities. For students already skilled at the Intermediate level in the activity.

PHE 230 Motor Skill and Fitness Activities for Children (3 credits)
Hours: 1 classroom + 2 lab/studio
Taught: Spring only
Development of skills, knowledge, and strategies in activities developmentally appropriate for elementary physical education programs; movement concepts, fundamental motor skills, body management, rhythmic activities and dance, game skills, and physical fitness concepts and development activities.

PHE 231 Dance and Rhythmic Activities (3 credits)
Hours: 1 classroom + 2 lab/studio
Taught: Fall only
The focus of this course is to develop an appreciation for the value and benefits for the inclusion of dance and rhythmic activities in the P-12 physical education curriculum, and how to plan, demonstrate, teach, and assess a variety of appropriate dance forms in the elementary, middle grades, and high school physical education programs.

PHE 234 Team Sports (3 credits)
Hours: 1 classroom + 4 lab/studio
Taught: Fall only
An introduction to the performance and application of skills, knowledge, strategies, tactics, and rules of a variety of team sports (basketball, volleyball, soccer, touch football, lacrosse, ultimate frisbee and strategies to teach these sports using the sport education and tactical game approaches in middle & high school physical education or community programs.

PHE 235 Individual and Dual Sports (3 credits)
Hours: 1 classroom + 4 lab/studio
Taught: Spring only
An introduction to the knowledge, skills, rules, tactics, and strategies to successfully play a variety of sports (badminton, tennis, golf, frisbee golf, track & field, bowling, and adventure education activities) strategies to teach and coach these sports & activities in middle school and high school physical education programs, and community sports programs.

PHE 250 Physical Education for Elementary Teachers (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: EDU 104.
Taught: Fall, spring, and summer
Content and skills for developing, implementing, and evaluating physical education in the P-5 classroom.

PHE 259 Special Topics in Physical Education (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: sophomore standing and/or consent of instructor.
Taught: Fall, spring, and summer
Directed readings, independent research, or other areas of specific or individual academic interest. Not intended to substitute for any course offered on a regular basis. Written agreement between faculty and student must be submitted to department chair within first two weeks of semester; elements of agreement to include purpose, objective, instructional activities, time frame, and evaluation procedure.

PHE 310 Fitness Education for Children and Youth (3 credits)
Hours: 2 classroom + 1 lab/studio
Taught: Fall only
An introduction to developmentally appropriate content, concepts, motivational strategies, teaching and assessment practices and strategies, and physical activities to be used to encourage children and adolescents to regularly participate in physical activity and to achieve and maintain a health level of fitness in school and community programs.

PHE 318 Lifeguarding (2 credits)
Hours: 1 classroom + 2 lab/studio
Prerequisites: Swimming proficiency test given during first class meeting.
Taught: Spring only
Knowledge and skills designed to save own life or life of another person in event of aquatic emergency; CPR (enhanced first aid instruction) for the professional rescuer. American Red Cross certification awarded to students meeting requirements.

PHE 319 Water Safety Instructor (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: Must pass American Red Cross Level 4 swimming skills test.
Taught: Fall and spring
Knowledge, skills, and methodology necessary to teach swimming and water safety skills. American Red Cross Certification for water safety instructor, and first aid/CPR awarded to those students who meet requirements.

PHE 390 Practicum in Recreational Leadership (3 credits)
Hours: 0 classroom + 3 lab/studio
Prerequisites: Junior standing.
Taught: Fall, spring, and summer
The focus of this course is to provide students with supervised practical experiences in which they will work in recreational programs on and off campus. Students will gain an understanding and experience how a recreation center functions and how programs are planned, organized, publicized, and implemented.

PHE 470 Teaching Methods for Physical Education (4 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: EDU 311, KIN 200, KIN 330, PHE 230, PHE 231, PHE 234, PHE 235, PHE 310, Co-requisites: PHE 491.
Taught: Spring only
Development of Knowledge, teaching skills and strategies necessary for effective teaching in physical education P-12, and Kentucky Initial Teacher Standards.

PHE 490 Field Experiences in Elementary Physical Education (2 credits)
Hours: 0 classroom + 1 lab/studio
Prerequisites: PHE 470.
Taught: Fall only
Field experiences of supervised practice teaching in an elementary school setting.

PHE 491 Field Experiences in Middle School and Secondary Physical Education (1 credit)
Hours: 0 classroom + 1 lab/studio
Taught: Spring only
Supervised practice teaching experience in a middle school and/or high school setting. Integrated with methods course.

PHE 492 Internship in Recreation Leader (12 credits)
Hours: 0 classroom + 12 lab/studio
Prerequisites: PHE 380.
Taught: Fall, spring, and summer
The focus of this internship is for students to gain professional experience in a supervised recreational setting in the community to prepare for work in a professional setting. Students will work with the program supervisor to determine the type of setting that will best prepare him/her for their professional goals.
PHE 494 Special Topics in Physical Education (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, winter, spring and summer
This is a special topics course of a current interest/issue in the field of physical education.

PHE 499 Special Topics in Physical Education (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Junior or senior standing.
Taught: Variable, check with department
Directed readings, independent research, or other areas of specific or individual academic interest. Not intended to substitute for any course offered on a regular basis. Written agreement between faculty and student must be submitted to department chair within first two weeks of semester; elements of agreement to include purpose, objective, instructional activities, time frame, and evaluation procedure.

PHE 500 Adapted Physical Education (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: KIN 330.
Taught: Fall only
Adaptation of physical education programs for temporarily or permanently handicapped persons.

PHE 599 Selected Problems in Physical Education (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Variable, check with department
Individual or group study of a topic of current interest in physical education. Topic selected by student with approval of instructor.

Philosophy Courses (PHI)

PHI 110 Philosophy, Individuals and Society - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
In Philosophy, Individuals and Society students explore a variety of philosophical views about the nature of individuals, social structures and the relationships between them. Students will critically examine different philosophical perspectives and theories that arise from questions about human nature, personal identity, free will and moral responsibility, the nature of mind, and the ethical, social and political dimensions of human existence.

General education credit: Individual and Society

PHI 165 Introduction to Logic (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Methods and principles used to distinguish valid from invalid forms of argumentation in deductive and inductive reasoning; syllogisms, dilemmas, truth tables, and the scientific method.

PHI 181 Philosophers, Cultures and Creativity - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
This course is a philosophical examination of pluralistic viewpoints on individual and social ethical responsibilities in the global world. The development of a rational approach to ethical inquiry; Alternative ethical systems may be evaluated along with a number of other ethical issues relating to social, political, legal, or religious matters.

General education credit: Culture and Creativity

PHI 200 Ethics - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Ethical issues faced by computing professionals including those related to computing in the workplace, security, crime, privacy, property rights, risk, liability, and the internet.

PHI 210 Information Ethics (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Ethical issues faced by computing professionals including those related to computing in the workplace, security, crime, privacy, property rights, risk, liability, and the internet.

PHI 220 Health Care Ethics - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Ethical decision making and problems of contemporary health care in multicultural perspectives; abortion, euthanasia, population and behavior control; informed consent and counseling; professional codes and personal freedom; mental health and personal autonomy; justice and equality in health care; ethical conflicts in health service work; death and dying.

General education credit: Global Viewpoints

PHI 265 Logic - QR (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAHD 095 or MAHD 099 or placement
Taught: Fall and spring
An introduction to the methods of formal deductive logic, with an examination of its relationship to areas such as mathematics, computer science, and legal reasoning. Students will learn the language and rules of formal logic, as well as techniques of formal proof.

General education credit: Mathematics

PHI 280 History of Classical and Medieval Philosophy (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Western philosophical tradition from the Greeks to the 15th century; birth of scientific explanations; the role of reason; impact of Christianity; influence of seminal thinkers such as Socrates, Plato, Aristotle, the Atomists, Augustine, and Aquinas on political, ethical, religious, and other ideas.

PHI 285 History of Modern and Contemporary Philosophy (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Western philosophical tradition from the 15th to the 20th century; rise of rationalism, dualism, empiricism, idealism, skepticism, and utilitarianism, and the modern reactions to them, such as positivism, dialectical materialism, existentialism, and feminism; figures such as Bacon, Descartes, Hobbes, Leibniz, Spinoza, Hume, Mill, Kant, Hegel, and others.

PHI 302 Research Ethics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Variable, check with department
Ethical, legal, and public policy issues stemming from scientific research, including medical, psychological, and sociological; topics may include animal and human experimentation, informed consent, privacy, confidentiality, government regulations, freedom of inquiry and censorship, the moral responsibility of scientists, and research integrity.

PHI 304 Zen (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Spring only
The course offers foundational and developmental exposure to the fundamental and essential teachings of Zen from the stand point of both philosophy and religion as well as a non-sectarian practice in mindfulness training.
PHI 305 Existentialism (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Sophomore standing or consent of the instructor.  
Taught: Variable, check with department  
Meaning, freedom, responsibility, communication, creativity, and value in the works of thinkers such as Kierkegaard, Nietzsche, Heidegger, Sartre, Camus, De Beauvoir, and others; critique of traditional notions of mind versus body, reason, truth, self-identity, language, and time.

PHI 306 Philosophy and Science (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Sophomore standing or consent of the instructor.  
Taught: Variable, check with department  
Philosophical issues in science; the nature of scientific explanation; science and pseudoscience; growth of scientific knowledge; Kuhn, Popper, Feyerabend, and others.

PHI 307 Business Ethics (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Sophomore standing or consent of the instructor.  
Taught: Variable, check with department  
Codes by which businesses and individuals in business act; problems that can develop concerning ethical issues; corporate personhood; corporate, employer, employee, and consumer rights and responsibilities.

PHI 309 Global Ethics (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Sophomore standing or consent of the instructor.  
Taught: Variable, check with department  
This course is designed to introduce college students to a variety of approaches to building a more ethical world. We will see how ethicists from many cultures do ethics from their unique cultural perspective. These cultures will include: African, Islamic, Feminist, Buddhist, Native American, Chinese, and Indian Hindu. We will explore most of the following issues: Human Rights, Environmental Responsibility, Hunger and Poverty, War and Violence, Sexism, Racism, AIDS, Abortion, and Euthanasia.

PHI 311 Philosophy of Woman (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Sophomore standing or consent of the instructor.  
Taught: Variable, check with department  
Ideas of and about women in the history of philosophy; perennial issues that have emerged from classical times to the present.

PHI 312 Eastern Philosophy (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Sophomore standing or consent of the instructor.  
Taught: Fall only  
Philosophical foundations of Buddhism, Taoism, Confucianism, and Hinduism, including perspectives on self, reality, community, language, truth, enlightenment, embodiment, reason, emotion, and art; contrast with western perspectives; meditation and applied meditative practices.

PHI 315 Knowledge and Reality (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Sophomore standing or consent of the instructor.  
Taught: Spring only  
Differing views on the nature of knowledge and reality, e.g., analytic, idealist, realist, materialist, existentialist, mystical, intuitionist, and emotivist; relevance of these theories to one's personal philosophy of life and actions; nature of language, perception, intellect, time, matter, mind, God, freedom, truth, reason, emotion.

PHI 320 Social and Political Philosophy (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Sophomore standing or consent of the instructor.  
Taught: Variable, check with department  
Nature and purposes of the state, grounds of political obligation, freedom and its limitations, human rights, social justice, and selected contemporary issues.

PHI 322 Africana Philosophy (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Sophomore standing or consent of the instructor.  
Taught: Variable, check with department  
Philosophical study of main issues on evolution and natural selection. We consider Darwinian views, philosophical foundations of Buddhism, Taoism, Confucianism, and Hinduism, including perspectives on self, reality, community, language, truth, enlightenment, embodiment, reason, emotion, and art; contrast with western perspectives; meditation and applied meditative practices.

PHI 323 Peace and War (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Sophomore standing or consent of the instructor.  
Taught: Variable, check with department  
Philosophical study of main issues related to the ideas and realities of war and peace. Topics will include beliefs and theories about peace and war, the causes of violence and war, war and morality, alternatives to violence and war, peace ideas and proposals, applications to current world conditions.

PHI 324 Africana Philosophy (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Sophomore standing or consent of the instructor.  
Taught: Variable, check with department  
Examination of philosophical ideas in relation to people of African descent. Topics include Africana conceptions of reality, time and space; Africana epistemological and logical systems of reasoning; Africa morality. Contrast will be made with Western philosophy. Other topics may include Africana-centered social, political and cultural issues such as slavery, colonialism, racialism and Africana identity.

PHI 325 Great Traditions in Ethics (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Sophomore standing or consent of the instructor.  
Taught: Variable, check with department  
In-depth study of the major sources of western moral philosophy; representative selections from philosophers of classical times to the present (e.g., Plato, Aristotle, Augustine, Aquinas, Kant, Bentham, Mill, Marx, Dewey, and Sartre).

PHI 330 Philosophy and Law (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Sophomore standing or consent of the instructor.  
Taught: Variable, check with department  
Major philosophical issues in law; theories of the nature and purposes of law, legal enforcement of community standards, strict liability, human rights, civil disobedience, theories of punishment, and legal ethics.

PHI 335 Neuroethics (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Sophomore standing or consent of the instructor.  
Taught: Variable, check with department  
Explores the relationship between neuroscience (and possibly other social and cognitive sciences) and the philosophical study of morality. Topics could include the implications of neuroscience for understanding moral judgment, moral emotions, free will and moral responsibility, the concept of a person, and moral character. Other topics might include ethical issues surrounding the practice and application of neuroscience in social, legal and clinical contexts.

PHI 339 Philosophy of Mind (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Sophomore standing or consent of the instructor.  
Taught: Variable, check with department  
This course is designed to examine issues and themes in contemporary philosophy of mind; the relationships among the mind, brain and world; problems concerning intentionality, subjectivity, consciousness, qualia, mental representation, mental causation; and the intersection of psychology, cognitive science, neuroscience, and artificial intelligence with philosophy.

PHI 348 Darwin and Philosophy (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Sophomore standing or consent of the instructor.  
Taught: Variable, check with department  
In this course we examine neo-Darwinian views on evolution and natural selection. We consider several attempts to use evolutionary principles to provide naturalistic explanations for important features of human existence, like the nature of thought, morality, freewill, creativity and the effects of culture.
PHI 350 Philosophy of Religion (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Taught: Variable, check with department
Issues in religious philosophy, including the relation between faith and reason, the nature of religious experience, arguments for the existence of God, the problem of evil, and immortality.

PHI 355 Socrates and Plato (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Variable, check with department
Study of two major formative persons in the development of Western thought and culture. Socrates’ life, trial, death, thought, and significance. Plato on the good, justice, education, knowledge, and reality; the Platonic tradition.

PHI 357 Kant and Nineteenth-Century Philosophy (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Variable, check with department
Study of the work of Immanuel Kant and some of the subsequent philosophical views he influenced, including possibly the contributions of Hegel, Marx, Kierkegaard and Nietzsche. Critical examination of ideas regarding knowledge, reality and value through careful readings of both primary and secondary texts.

PHI 360 Environmental Philosophy (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Variable, check with department
In-depth examination in environmental philosophy, including areas such as environmental feminism, animal rights, technology and human nature, environmental justice, or religion and ecology.

PHI 375 Ethical Theory (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Fall only
An examination of traditional and contemporary normative theories, such as utilitarian ethics, virtue ethics, natural and moral rights theories, Kantian ethics, contractarian ethics and care ethics. The focus may also include metaethical analysis concerning the nature of morality, such as moral cognitivism and moral realism.

PHI 394 Topics: Philosophy (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Variable, check with department
Examination of a selected problem or tradition in philosophy. Offered according to demand and interest of students at discretion of philosophy faculty. May be repeated when topics vary.

PHI 396 Internship: Applied Philosophy (3 credits)
Hours: 2 classroom + 5 lab/studio
Prerequisites: 6 semester hours in philosophy and consent of instructor.
Taught: Variable, check with department
Directed projects, readings, and discussion in a course of study in a field of science or pre-engineering at NKU. Topics will include career information, career and college success skills, and an introduction to design.

PHI 399 Independent Study in Philosophy (3 credits)
Hours: 2 classroom + 5 lab/studio
Prerequisites: 6 semester hours in philosophy.
Taught: Variable, check with department
Supervised readings and research carried out in conjunction with practicum, internship, or job in student’s primary area of interest; focus upon philosophical and ethical issues of the work experience.

PHI 494 Seminar: Philosophy (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Taught: Variable, check with department
Examination of a selected problem or tradition in philosophy. May be repeated as topics vary.

PHI 498 Independent Study in Philosophy (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Taught: Variable, check with department
Individually supervised readings and study of some philosophic work, problem, or tradition. May be repeated as topics vary, but no more than twice.

PHI 594 Topics: Philosophy (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Taught: Variable, check with department
In-depth examination of a selected topic in philosophy. May be repeated as topics vary.

PHI 598 Independent Study: Philosophy (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of instructor.
Taught: Variable, check with department
Individually supervised readings and study of a selected study in philosophy. May be repeated as topics vary.

Physics Courses (PHY)

PHY 100 Science, Engineering, and Design (1 credit)
Hours: 1 classroom + 0 lab/studio
Taught: Fall only
Course designed for students who wish to pursue a course of study in a field of science or pre-engineering at NKU. Topics will include career information, career and college success skills, and an introduction to design.

PHY 101 Einstein 101 - NS (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MAHD 099 or placement.
Taught: Fall and spring
Introduction to concepts in modern physics by studying the work and life of Albert Einstein. Theories to be covered include special and general relativity, photoelectric effect, quantum mechanics, and Brownian motion. Assumes knowledge of elementary algebra and graphing techniques.

PHY 110 Introduction to Physics with Laboratory - SL (4 credits)
Hours: 3 classroom + 2 lab/studio
Prerequisites: MAHD 099 or placement.
Taught: Fall, spring, and summer
Conceptual physics for nonscience majors. Using guided inquiry activities to teach basic principles and their applications. Topics chosen from among: nature of physics as a science, mechanics, wave motion, light, heat, electricity, and the atom. Assumes knowledge of elementary algebra.

PHY 150 Current Topics in Physics (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Directed projects, readings, and discussion for students interested in physics as a major or a minor. Does not meet general education requirement in natural sciences.

PHY 161 Circuit Analysis (3 credits)
Hours: 2 classroom + 2 lab/studio
Prerequisites: MAHD 099 or ACT Math 22 or higher.
Taught: Fall and spring
Basic laws and theories, voltages, current, power, and resistance; resistive circuits in direct current circuits; analysis and applications. Mesh and node equations used in circuit analysis. Same as EGT 161.
PHY 211 General Physics with Laboratory I - SL (5 credits)
Hours: 4 classroom + 2 lab/studio
Prerequisites: MAT 119 or a minimal math ACT score of 25 or equivalent placement.
Taught: Fall and spring
Noncalculus introduction to classical physics using guided inquiry activities. Topics include kinematics, forces and Newton’s Laws of Motion, circular motion, work and energy, momentum, rotational motion, static equilibrium, and fluids. Assumes knowledge of algebra and basic trigonometry.
General education credit: Natural Science

PHY 213 General Physics with Laboratory II (5 credits)
Hours: 4 classroom + 2 lab/studio
Prerequisites: PHY 211.
Taught: Fall and spring
Noncalculus introduction to classical physics using guided inquiry activities. Continuation of PHY 211. Topics include oscillations, waves and sound, electric forces and fields, DC circuits, magnetic forces and fields, AC circuits, geometrical optics, and physical optics.

PHY 220 University Physics with Laboratory I - SL (4 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisite OR Co-requisite: MAT 129 or MAT 227 or math ACT of 25 or higher.
Taught: Fall and spring
Calculus-based introduction to classical physics using guided inquiry activities. Topics include techniques for data analysis, kinematics, forces and Newton’s Laws of Motion, circular motion, work and energy, momentum, rotational motion, static equilibrium.
General education credit: Natural Science

PHY 222 University Physics with Laboratory II (4 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: C- or better in PHY 220.
Prerequisite OR Co-requisite: MAT 229 or MAT 228.
Taught: Fall only
Calculus-based introduction to classical electromagnetic theory using guided inquiry activities. Topics include electric forces and fields, DC circuits, magnetic forces and fields, AC circuits.

PHY 224 University Physics with Laboratory III (4 credits)
Hours: 3 classroom + 3 lab/studio
Prerequisites: MAT 129 and “C-“ or better in PHY 220.
Taught: Spring only
Calculus-based introduction to classical physics using guided inquiry activities. Topics include oscillations, waves, sound, geometrical optics, physical optics, fluids, and thermodynamics.

PHY 292 Research Experience in Physics (0 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Consent of instructor and department chair.
Taught: Fall, spring, and summer
Original research work directed by one or more members of the physics faculty. May be taken more than once. Pass/fail grade only.

PHY 294 Topics: Physics (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of department chair.
Taught: Variable, check with department
Special topics in physics. Repeatable for a maximum of 12 semester hours.

PHY 300 Intermediate Physics Laboratory (2 credits)
Hours: 0 classroom + 4 lab/studio
Co-requisites: PHY 361.
Taught: Fall only
A selection of experiments in classical and modern physics. Topics include but are not limited to properties of light, quantization of charge, and atomic structure.

PHY 301 Advanced Physics Laboratory (2 credits)
Hours: 0 classroom + 4 lab/studio
Prerequisites: PHY 300.
Taught: Spring only
A selection of advanced experiments in classical and modern physics. Topics are selected from thermodynamic properties of matter, nuclear structure, particle physics, and advanced optics.

PHY 305 Statics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PHY 220, or PHY 223, or better in PHY 211 or PHY 220.
Taught: Fall only
Force on bodies at rest; vector algebra; force systems; equivalent force systems; distributed forces; internal forces; principles of equilibrium; application to trusses, frames, and beams; friction.

PHY 310 Dynamics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in PHY 220.
Prerequisite OR Co-requisite: MAT 325.
Taught: Spring only
Particle dynamics in one, two, and three dimensions; applications of mathematics to mechanical systems; theory of small oscillations; rigid-body dynamics.

PHY 315 Introduction to Astrophysics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MAT 129 or MAT 227, and C- or better in PHY 213 or PHY 222.
Taught: Variable, check with department
Quantitative application of physical principles to subjects of astronomical interest, such as the interaction of radiation with matter, analysis of stellar atmospheres, origin and evolution of the elements, and cosmology. Same as AST 315.

PHY 320 Physical Optics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MAT 228 or MAT 229, and C- or better in PHY 224.
Taught: Variable, check with department
Nature of light; interference; diffraction; polarization.

PHY 330 Mathematical Physics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAT 325.
Taught: Fall only
Fourier series; orthogonal expansions; eigenvalue problems; boundary value problems in ordinary and partial differential equations. Same as MAT 330.

PHY 360 Thermodynamics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in PHY 224.
Prerequisite OR Co-requisite: MAT 329.
Taught: Spring only
The laws of thermodynamics applied to closed systems, open systems, power cycles, and refrigeration cycles; extensive use of tables and graphs of thermodynamic properties.

PHY 361 Modern Physics I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PHY 224, or PHY 222.
Prerequisite OR Co-requisite: PHY 300.
Taught: Fall only
Introduction to concepts of modern physics; relativity, quantization of charge, black-body radiation, photoelectric effect, X-ray and Compton scattering, atomic models of Rutherford and Bohr, wave properties of matter, the Schrodinger equation, and atomic physics.

PHY 392 Directed Research: Physics (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Variable, check with department
Supervised research in an area of physics currently under investigation by one or more members of the physics faculty. Repeatable for a maximum of 9 semester hours.
PHY 394 Topics: Physics (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
In-depth study of specialized topics in physics. Repeatable for a maximum of 9 semester hours when topic varies. Offered on demand.

PHY 396 Undergraduate Laboratory Assistant (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Physics GPA of at least 3.00, junior standing and consent of instructor.
Taught: Variable, check with department
Participation in planning, setting-up, teaching, conducting reviews, and testing for an undergraduate laboratory course. For students majoring in physics. Repeatable for a maximum of 6 semester hours. Not applicable to major or minor.

PHY 397 Special Projects: Physics (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Variable, check with department
Completion of an independent project involving either the development of an advanced laboratory experiment or the construction of a working prototype (or detailed conceptual design) of an operational device. Repeatable for a maximum of 6 semester hours.

PHY 399 Readings in Physics (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Variable, check with department
Current literature. Repeatable for a maximum of 6 semester hours.

PHY 410 Electromagnetic Theory (4 credits)
Hours: 4 classroom + 0 lab/studio
Prerequisites: MAT 329, MAT 325, and C- or better in PHY 222.
Taught: Variable, check with department
Development of Maxwell’s equations; their application to electrostatics, magnetostatics, and electromagnetic radiation.

PHY 420 Modern Physics II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in PHY 361.
Taught: Variable, check with department
Applications and advanced topics in modern physics; statistical physics, molecular structure and spectra, solid-state physics, nuclear physics, particle physics, and cosmology.

PHY 460 Quantum Mechanics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: MAT 325 and C- or better in PHY 361 or CHE 361.
Taught: Variable, check with department
Principles of quantum mechanics; operator methods and their application to the hydrogen atom, spin, and angular momentum. Other topics selected from quantum statistics, variational techniques and perturbation theory, WKB approximation, and many electron atoms. Same as CHE 560.

PHY 492 Undergraduate Research: Physics (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: 8 semester hours of 300-level physics courses or above.
Taught: Variable, check with department
Supervised research in an area of physics currently under investigation by one or more members of the physics faculty. Repeatable for a maximum of 9 semester hours.

PHY 494 Physics Seminar (1 credit)
Hours: 1 classroom + 0 lab/studio
Prerequisites: 20 semester hours of physics courses.
Taught: Spring only
Techniques to search and report on research articles in physics. A written report and an oral presentation are required.

Popular Culture Courses (POP)

POP 205 Introduction to Popular Culture - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Major areas of popular culture studies; values and attitude expressed in and passed on by activities, objects and entertainment forms of popular culture.

General education credit: Culture and Creativity

POP 205H Honors Introduction to Popular Culture - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Major areas of popular culture studies; values and attitudes expressed in and passed on by activities, objects and entertainment forms of popular culture.

General education credit: Culture and Creativity

POP 250 International Popular Culture - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
In-depth study of international and/or global aspects of everyday life and popular culture: consumer culture, mass media, entertainment, migration, technology, etc. May focus on a country or a region.

General education credit: Culture and Creativity

POP 305 Black Popular Culture (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Historical and contemporary examination of Black popular culture in the United States. Influence on American popular culture in general. Relationship of race, ethnicity, gender, and class.

POP 345 Japanese Popular Culture (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: POP 205 or JPN 101 or consent of instructor.
Taught: Variable, check with department
Postwar Japanese society and culture; beliefs and values, gender roles, daily experience, popular and entertainment forms.

POP 369 Folklore and Pop Culture (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Communication course.
Taught: Fall and spring
Theoretical and academic context of folklore and popular culture, their symbiotic relationship and impact on each other, creativity in our mass mediated world.

POP 394 Topics: Popular Culture (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies according to topic.
Taught: Variable, check with department
Focused study of a specific and significant topic concerning popular culture. Topics vary from semester to semester. May be repeated once for credit.

POP 494 Topics: Popular Entertainment (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Communication course.
Taught: Fall and spring
Study of popular entertainment forms, leisure activities, and events in the U.S. and the world, past and present, such as television, concerts, sports, fandom, etc. Topics vary from semester to semester. May be repeated once if topics differ.

POP 495 Study Abroad (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Varies by topic.
Taught: Variable, check with department
Varies by topic. Course includes a classroom portion and a trip abroad.

POP 499 Independent Study (1-3 credits)
Hours: 0 classroom + 0 lab/studio
Taught: Variable, check with department
Individually supervised work involving reading, research, and/or production in a specified area of interest. Topic selected before registration in conference with instructor.
Public Relations Courses (PRE)

PRE 350 Music and Entertainment Publicity (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Variable, check with department
Music & Entertainment Publicity is an introduction to the strategies, tactics, and tools that apply to promotional activities for musical artists and theatrical productions. Special emphasis will be placed on new and social media and on the cross-marketing efforts that connect artists with video games, retail outlets, and festivals.

PRE 375 Principles of Public Relations (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: JOU 110 or EMB 100, and JOU 220 or EMB 265, or consent of instructor.
Taught: Fall and spring
Philosophy and functions of public relations practices; campaign planning and public affairs activities; writing messages for and selection of news media.

PRE 376 Public Relations Writing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisite OR Co-requisite: PRE 375.
Taught: Fall and spring
Instruction and practice in various forms of writing for public relations, including press releases, annual reports, newsletters, and other professional public relations writing for the media and the public.

PRE 377 Public Relations Case Studies and Campaigns (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PRE 375.
Taught: Fall and spring
Evaluation of public relations programs conducted by companies, nonprofit institutions, and government agencies; writing for specialized and mass media in public relations.

PRE 385 Public Relations Research Methods (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PRE 375.
Taught: Fall and spring
This course includes qualitative and quantitative research designs as related to public relations research, specifically teaching skills such as communication audits, issue tracking, use of external research services, media and clipping analysis, evaluating and reporting program effectiveness and evaluating counselor and staff performance.

PRE 394 Topics in Public Relations (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Focused study of a specific and significant topic from a public relations perspective. Topics vary from semester to semester and may be repeated once for credit.

PRE 396 Public Relations Internship (3 credits)
Hours: 0 classroom + 12 lab/studio
Prerequisites: PRE 376; written consent of supervising faculty member; junior or senior standing.
Taught: Fall, spring, and summer
Selected placement, for P.R. majors, in a public relations agency, department, or other employer of P.R. professionals. Assigned work in a business, non-profit, or government organization may include writing, production, or promotion. May not be repeated for credit.

PRE 400 Public Relations Planning and Account Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PRE 375.
Taught: Fall only
This course facilitates the study and practice of consultative client-practitioner relations in public relations contexts. Account management and its various time-tracking and billing methods are kept in the foreground and considered for their likely influence throughout the client-practitioner lifecycle. Topics include inter-organizational relations, supply chain architectures, planning and budgeting, proposal writing and presentation, and business ethics.

PRE 410 Electronic Public Relations (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PRE 375.
Taught: Fall only-even years
Provide knowledge and practice in preparing various forms of electronic media used for corporate, non-broadcast purposes. Students will develop, create and produce effective electronic programming for distribution within the corporate culture in this course.

PRE 495 Study Abroad (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Varies by topic.
Taught: Variable, check with department
Varies by topic. Course includes a classroom portion and a trip abroad.

PRE 499 Independent Study in Public Relations (1-3 credits)
Hours: 0 classroom + 4-12 lab/studio
Prerequisites: junior standing; approved independent study proposal.
Taught: Variable, check with department
Individually supervised work involving reading, research, writing, and/or production in a specified area of interest of public relations. Topic and plan of study selected before registration in conference with professor. May be repeated for a maximum of 6 semester hours.

Political Science Courses (PSC)

PSC 100 American Politics - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
National government in the U.S.; decision making process, government structure, politics.
General education credit: Individual and Society

PSC 100H American Politics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ACT score of 24 or greater.
Taught: Fall and spring
American Politics is a course that explores how national politics in the United States works. Many journalistic accounts of American politics emphasize unsupported opinions and questionable assumptions. In this class, we will examine American politics based not on these opinions and assumptions, but instead on testable theories and verifiable facts. This approach, while not as flashy as what you’re likely to see on MSNBC or Fox News, will lead to a fuller and deeper understanding of the American political process.
General education credit: Individual and Society

PSC 101 State and Local Politics - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Policy making processes in U.S. state governments, Kentucky state and local governments.
General education credit: Individual and Society

PSC 102 Comparative Politics - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Analysis of political systems using the comparative approach to political processes and behavior.
General education credit: Global Viewpoints
PSC 103 International Politics - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Fundamental factors governing international politics.
General education credit: Global Viewpoints

PSC 103H Honors International Politics (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Fundamental factors governing international politics.
General education credit: Global Viewpoints

PSC 110 Political Ideas (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Trends and ideas that have helped shape Western political heritage.
General education credit: Global Viewpoints

PSC 110H Political Ideas - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Trends and ideas that have helped shape Western political heritage.
General education credit: Global Viewpoints

PSC 215 Scope and Methods (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 semester hours of introductory political science courses.
Taught: Fall only
Philosophical foundations of political analysis; various methodologies and quantitative techniques; nature of the role of the political scientist.

PSC 301 American Political Institutions (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Spring only
In this course, we will be examining the structure and function of the legislative, executive, and judicial branches of the United States government.

PSC 304 Introduction to the Law (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Variable, check with department
Various approaches to law, including philosophical, sociological, political, and historical; elements of legal reasoning; institutions, functions, and effects of law in American society.

PSC 305 The Judicial Process (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Variable, check with department
A systems approach to the behavior of actors in the federal judiciary.

PSC 307 Constitutional Law (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Fall and spring
Major constitutional issues studied through decisions of the Supreme Court.

PSC 308 Civil Liberties (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Fall and spring
Equal protection under the law; criminal due process, First Amendment freedoms studied through case methods.

PSC 310 Political Behavior (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Fall only
Voting, campaigns, and recruitment of political leadership; academic background for courses in campaign management, public opinion, or elections.

PSC 311 Political Parties and Interest Groups (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Spring only-even yrs

PSC 312 Modern Ideologies (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Fall only
Major political ideologies of the 20th and 21st centuries: liberal democratic capitalism, democratic socialism, fascism, and communism; role of propaganda and political socialization in dissemination of ideological values; relationships among ideology, nationalism, and revolution.

PSC 319 Public Opinion (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Spring only-odd yrs
The purpose of this class is to examine American public opinion and its role in American politics.

Public opinion serves as a foundation of survey research and understanding of American political moods.

PSC 320 American Politics in Film (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Summer only
Role of films in shaping public agendas, enhancing awareness of public issues; effect of films on public understanding of political processes and problems; examination of accuracy and bias of political messages in films.

PSC 322 International Politics in Film (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Spring only-odd yrs
Organization and functioning of modern European political systems, especially Great Britain, France, Germany, and Italy.

PSC 330 Politics of Europe (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Spring only-odd yrs
This course explores the political, economic, and social challenges of Third World development. It covers a wide range of contemporary issues affecting developing countries, and focuses especially on aid and development policies aimed at reducing poverty and underdevelopment. In a world where 940 million people are malnourished, where nearly 1.3 billion people live on less than a dollar per day, and where dozens of countries constitute “failed states,” the development challenges faced by Third World areas are unquestionably one of the most important public policy concerns of our time.

PSC 335 Politics of Latin America (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Fall only-even years
Comparative analysis of selected republics, especially Argentina, Brazil, Chile, Peru, and Venezuela.
PSC 350 Using Civilization to Understand IR (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Introductory-level PSC course.
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Summer only

Using the computer simulation Sid Meyer’s Civilization to understand international relations issues, including factors that affect decision making, levels of analysis from which decisions are made, implications of diplomatic choices and policy making.

PSC 366 Politics of Africa (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Spring only-odd yrs

A comprehensive Introduction to the theory, practice and reality of Government and Politics in Africa. The major intent is to help the student to better grasp and comprehend the structure, function and nature of government and politics in Africa from colonialism to the present, as well as the policies resulting and their impact on the African polity and the greater international community.

PSC 370 Ancient Political Theory (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Spring only-even yrs

Nature of political life; basic questions examined through close reading of original works of early Greek and Christian thinkers.

PSC 372 Modern Political Theory (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Spring only

Renaissance through Industrialization, considering thought on power, natural rights, the social contract, liberal democracy, utilitarianism, communism, and arguably the roots of feminism.

PSC 373 Contemporary Political Theory (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Introductory-level PSC course.
Taught: Fall only

This course emphasizes the changes in political theory in the 20th century, following Nietzsche’s criticism of the Enlightenment. The course focuses on the transformation of Enlightenment themes like power, modernity, gender, labor, and class.

PSC 375 Perspectives on Law (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Variable, check with department

This course is an introduction to contemporary theories of the law and legality. The course deals with the concept of law or legal authority. The course contains three areas: the notion of jurisprudence; the broader implications of how claims to authority are made good through legality; and obligation to the law.

PSC 380 Politics of the Middle East (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Fall only-odd years

Context in which Middle Eastern politics evolved; organization and functioning of modern Middle Eastern political systems; factors affecting ideological and political trends in the region.

PSC 388 Politics of Asia (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Fall only-even years

Examines the politics, governments, economy, security issues, and history of Asia; particular focus on East Asia’s rapid growth.

PSC 394 Topics: Politics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Variable, check with department

Topics vary from semester to semester. See Schedule of Classes for topic and prerequisites. May be repeated.

PSC 400 State Governance and Engagement (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, 101, 102, 103 or 110.
Taught: Variable, check with department

Examination of the political forces that drive policy formulation. Critical analysis of the passage, implementation, and effectiveness of major national legislation and programs.

PSC 405 Politics of Money (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Spring only-odd yrs

How and why the federal government creates, collects and spends money. Critical analysis of the passage, implementation, and effectiveness of major national economic legislation and programs.

PSC 415 United States Foreign Policy (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103, PSC 110 or ECO 200.
Taught: Spring only

Interaction between politics and economics at the domestic and international levels; process leading to national and international distribution of wealth and economic development.

PSC 425 Sex in Global Society (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Fall only-even years

The historical setting, foreign policy process models, institutions and actors that influence United States foreign policy, emerging and enduring issues addressed by states.

PSC 426 Sex in Global Society (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103, PSC 110 or any WGS course.
Taught: Fall only-even years

Dynamics, institutions, actors, and policies that shape gender stereotypes, identity, and movements across cultures and regions of the world, serving to subordinate women. Topics include sexuality, economic issues, political and legal systems, globalization factors, and religion.

PSC 430 Politics and the Media (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Fall only-odd years

Impact of media on political process in the United States; structure and ownership of mass media; mass media and political behavior; role of the media in campaigns, elections and policy making.

PSC 440 Politics of Food (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Fall only-odd yrs

The political implications of the food we eat and how the choices we make can both define and dictate political policies.
PSC 465 Democratization (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103, or PSC 110.
Taught: Fall only
This class provide students with a general understanding of democratic regimes and their development over time and space.

PSC 470 Globalization (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Fall only
Understanding the interdependent nature of relations in the world by examining the dynamic transnational forces of culture, ideology, identity, geography, history, religion, social relations, and economics.

PSC 480 International Law (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Fall only
Development of international law; enforcement of international law; impact of international law on conduct of international relations among nation states.

PSC 481 International Organization (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Spring only
Development of international organizations; role of United Nations in peacekeeping and international socioeconomic and cultural development.

PSC 482 Comparative Electoral Systems (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103, or PSC 110.
Taught: Spring only
Development of international organizations; role of United Nations in peacekeeping and international socioeconomic and cultural development.

PSC 485 Comparative Foreign Policies (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.
Taught: Fall only
Comparative analysis of foreign policies of selected states; decision-making and factors affecting foreign policy.

PSC 486 Conflict and Security (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 3 semester hours of introductory political science courses.
Taught: Spring only
This course is an investigation into the causes and correlates of conflict in our time, and how fighting these conflicts has changed over time. The course begins just prior to the year 1648, with the advent of the modern nation-state system, and unfolds to the present days of the “New World disorder,” with the occurrence of acts of political terrorism upon American soil.

PSC 496 Internship in Political Science (1-15 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Consent of program director.
Taught: Fall only
Students may enroll for real-world experiential credit with public or private hosts. Students must have the consent of Internship Coordinator.

PSY 100 Introduction to Psychology - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall and spring
Assessment of individual values, interests, and abilities; investigation of psychology-related vocations; planning and decision-making skills regarding future careers.

PSY 100H Honors Introduction to Psychology - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Minimum ACT composite of 24 or consent of instructor.
Taught: Fall only
Scientific study of behavior and mental processes in a seminar setting; perspectives and topics covered in PSY 100; critical thinking and research methodology; independent work and active participation required.

PSY 100H Honors Introduction to Psychology - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall and spring
Overview of research findings in personality psychology; emphasis on empirically supported conclusions regarding personality.

PSY 200 Psychology of Personal Adjustment (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall, spring, and summer
Personal growth and development including personal health; stress management; values clarification; moral dilemmas; interpersonal relations; social problems; career development.

PSY 210 Research Methods in Psychology (3 credits)
Hours: 3 classroom + 0 lab/studio
Co-requisites: PSY 210L and PSY 210R.
Taught: Fall and spring
Experimental and other research methods in psychological research. A laboratory experience is included.

PSY 210R Career Planning for Psychology Majors (1 credit)
Hours: 1 classroom + 0 lab/studio
Co-requisites: PSY 210 and PSY 210L.
Taught: Fall and spring
Skills needed to support PSY 210: use of computers and other tools in all phases of psychological research: information gathering, analysis, and communication; techniques of library searching, elements of writing in APA style, collecting and analyzing data.

PSY 300 Personality Psychology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall and spring
Overview of research findings in personality psychology; emphasis on empirically supported conclusions regarding personality.

PSY 301 Evolutionary Psychology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Variable, check with department
Human nature from the perspective of biological evolution; natural history of species; altruism and cooperation; aggression, warfare, deception and prejudice; morality; mating strategies; cognition, perception, and learning.
PSY 302 The Human Side of Work (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 100.  
Taught: Fall only  
Psychology of work behavior; interpersonal relations and organizational effectiveness; communication, morale, stress, leadership styles, values, ethics, problem solving techniques, and cross cultural aspects of the work experience. The approach to learning is experiential and may include some field assignments.

PSY 304 Consumer Psychology (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 100.  
Taught: Fall and spring  
Psychological methods and concepts used to understand, explain, and predict the dynamics underlying, influencing, and determining consumer behavior; research methodology, individual and group influences, product attributes, promotional techniques, and consumer decision making.

PSY 305 Psychological Testing & Measurement (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 100 and STA 205 or equivalent, PSY 210 and PSY 210L or equivalent.  
Taught: Fall and spring  
Basic principles, applications, and issues as related to psychological testing and assessment; review and evaluation of widely used tests in major areas of application: intelligence, personality, achievement, aptitude, and vocational.

PSY 309 Psychology of Perception (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 100.  
Taught: Variable, check with department  
Current theories and research in understanding visual perception of color, movement, and illusions; perception in other sensory modalities.

PSY 311 Biopsychology (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 100.  
Taught: Fall and spring  
Basic assumptions, theories, and empirical data relating neurobiological mechanisms and psychological processes of behavior; structural functional relationship of parts of the nervous system and their role in behavior.

PSY 311L Biopsychology Laboratory (2 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 210 or equivalent and consent of instructor.  
Prerequisite OR Co-requisite: PSY 311 or equivalent.  
Taught: Fall and spring  
Laboratory to accompany PSY 311.

PSY 315 Psychology of Human Sexuality (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 100.  
Taught: Fall and spring  
A survey in human sexuality focusing on biological, psychological, behavioral, and developmental issues. Sexual attitudes, values, and gender issues also addressed. Explicit content.

PSY 321 Lifespan Development (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 100.  
Taught: Fall and spring  
Psychological theory and research on developmental and individual differences across the lifespan in physical, cognitive, personality, and social domains; biological, psychosocial, cultural, and contextual influences on development are also examined. Students with credit for PSY 220, PSY 319, and/or PSY 320 cannot receive credit for PSY 321.

PSY 321L Developmental Science Laboratory (2 credits)  
Hours: 1 classroom + 2 lab/studio  
Prerequisites: PSY 210 or equivalent.  
Prerequisite OR Co-requisite: PSY 321 or equivalent.  
Taught: Variable, check with department  
Laboratory to accompany PSY 321.

PSY 330 Behavior Modification (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 100.  
Taught: Fall only  
Introduction to applied behavior analysis; the use of operant and classical conditioning to analyze and change behavior.

PSY 333 Abnormal Psychology (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 100.  
Taught: Fall and spring  
Symptoms, causes, and treatment of major mental disorders; research methods in psychopathology.

PSY 337 Animal Learning (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 100.  
Taught: Fall and spring  
Behavioral methodology, theory, and empirical basis of the scientific study of learning; classical and instrumental conditioning, discrimination and generalization, and the role of reward, punishment, and other motivational variables.

PSY 338 Cognitive Processes (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 100.  
Taught: Fall and spring  
Cognitive methodology, theory, and empirical basis of the scientific study of human memory and information processing; thinking; problem solving; concept formation.

PSY 338L Cognitive Processes Laboratory (2 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 210 or equivalent.  
Prerequisite OR Co-requisite: PSY 338 or equivalent.  
Taught: Fall only  
Laboratory to accompany PSY 338.

PSY 340 Social Psychology (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 100.  
Taught: Fall and spring  
Social perception and social influences on behavior; attribution, attitudes, attraction, aggression, pro-social behavior, compliance, and small groups.

PSY 340L Social Psychology Laboratory (2 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 210 or equivalent and PSY 340.  
Taught: Fall and spring  
Laboratory to accompany PSY 340.

PSY 344 Industrial/Organizational Psychology (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 100.  
Taught: Fall and spring  
Psychological principles in business and industry; motivation, job satisfaction, leadership and communication theory, organizational structure, performance appraisal, personnel testing and selection, training, workplace design, and work environment.

PSY 345 Human Factors Psychology (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 100.  
Taught: Variable, check with department  
Humans in the design of manmade objects, facilities, and environments: the human as a system component, human capabilities and limitations, controls and displays, design of aerospace and surface vehicles, and designing for the handicapped.

PSY 350 Training Group Theory and Laboratory Method (3 credits)  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: PSY 100.  
Taught: Variable, check with department  
Small groups and development of interpersonal effectiveness; individual and group roles; resolution of conflicts; interpersonal trust; helping relationships. Graded pass/fail.
PSY 360 Psychopharmacology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Spring only
Detailed analysis of how psychotherapeutic and recreational drugs affect the brain and behavior. Introduction to central nervous system structure and function, the biological basis of drug action in the brain, and the behavioral, clinical, and side-effect profiles of psychoactive drugs.

PSY 370 Humanistic Psychology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Variable, check with department
Humanistic psychology in historical context; Greek, Renaissance, and modern developments; comparison with psychoanalysis and behaviorism; major theories of Allport, Fromm, Maslow, Jung, Rogers, Frankl, and Perls; central themes; experience, identity, meaning, freedom, responsibility, and growth in psychology.

PSY 405 Counseling Psychology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100 and junior standing.
Taught: Variable, check with department
Techniques of counseling; skills necessary in therapeutic interviewing; selection, application, and evaluation of appropriate goals, strategies, and tactics of counseling.

PSY 465 Health Psychology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100 and junior standing.
Taught: Fall and spring
Guided readings, discussions, and evaluations of scientific literature on health and health related behaviors; understanding psychological, social, and biological determinants of health; multi-disciplinary focus.

PSY 465L Health Psychology Laboratory (2 credits)
Hours: 1 classroom + 2 lab/studio
Prerequisites: PSY 210 or equivalent.
Prerequisite OR Co-requisite: PSY 465 or equivalent.
Taught: Variable, check with department Laboratory to accompany PSY 465.

PSY 492 Research: Psychology (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: consent of instructor and psychology chair prior to registration.
Taught: Fall and spring
Individually supervised research in an area of faculty expertise; readings, design, data collection, analyses, report writing or presentation of findings. Specific activities assigned by instructor. Up to 3 semester hours may be earned per semester; no more than 6 semester hours of PSY 492 and/or PSY 499 may be applied toward certification of the major.

PSY 494 Topics: Psychology (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100 and consent of instructor.
Taught: Fall and spring
Seminar course; topic listed in Schedule of Classes each semester. May be repeated for credit when topics vary.

PSY 495 Study Abroad in Psychology (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Study abroad course; topic listed in Schedule of Classes when course is offered. May be repeated for credit when topics vary.

PSY 496 Applied Experience in Psychology (1-3 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: PSY 100, junior standing, and consent of instructor.
Taught: Fall, spring, and summer
Supervised practical experience within the field of psychology and psychology-related areas. Students observe and shadow working professionals and apply classroom knowledge to practical work settings and environments. Up to 3 semester hours may be earned per semester; no more than 6 semester hours of PSY 496 may be applied toward certification of the major.

PSY 497 Honors Project in Psychology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to Honors in Psychology program.
Taught: Any time
Supervised development, implementation, analysis, and reporting of an empirical study. May be repeated once for credit.

PSY 499 Independent Study in Psychology (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor and psychology chair prior to registration.
Taught: Variable, check with department
Individually supervised research in an area of faculty expertise; readings, design, data collection, analyses, report writing or presentation of findings. Specific activities assigned by instructor. Up to 3 semester hours may be earned per semester; no more than 6 semester hours of PSY 492 and/or PSY 499 may be applied toward certification of the major.

PSY 500 I-O Discussion Forum (2 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to MSIO psychology program or consent of MSIO psychology director.
Taught: Fall only
Introduction to I-O program, development of community and support; survey of I-O psychology; discussion of historical, ethical, legal and current newsworthy issues; clarification and elaboration of program requirements, intentions and philosophy.

PSY 550 Organizational Psychology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to MSIO psychology program or consent of MSIO psychology director.
Taught: Fall only
Introductory graduate level study in organizational psychology; commitment, involvement, satisfaction, motivation, leadership, power, quality of worklife, and groups/teams.

PSY 570 Work Environments (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to MSIO psychology program or consent of MSIO psychology director.
Taught: Spring only
Introduction to human factors psychology; ergonomics; occupational health and safety; physical and psychological factors influencing the workplace.

PSY 580 Cognition in the Workplace (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to MSIO psychology program or consent of MSIO psychology director.
Taught: Fall only
Judgment and decision-making, heuristics, biases, persuasion, prejudice, diversity, values, and attitude measurement.

PSY 595 Topics: Study Abroad in Psychology (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Admission to MSIO psychology program or consent of MSIO psychology director.
Taught: Fall only
Study abroad course; topic listed in Schedule of Classes when course is offered. May be repeated for credit when topics vary.

Radiologic Science Courses (RAD)

RAD 101 Introduction to Allied Health (1 credit)
Hours: 1 classroom + 0 lab/studio
Taught: Spring only
Introduction to the professions of respiratory care and radiologic technology, including basic job responsibilities/scope of practice, medical terminology, and patient assessment. More specific information regarding the respiratory care and radiography programs will be presented.
Same as RSP101
RAD 200 Introduction to Radiography (6 credits)
Hours: 5 classroom + 1 lab/studio
Prerequisites: Admission to radiologic technology program.
Taught: Summer only
Introduction to program and profession; fundamental radiography principles and procedures; radiography of the chest and abdomen; foundation for all core radiography courses; orientation to clinical policies and procedures; observation of radiographic examinations under direct supervision by registered technologists at clinical sites.

RAD 202 Medical Terminology for Health Professions (1 credit)
Hours: 1 classroom + 0 lab/studio
Co-requisites: RAD 208 or RSP 201.
Taught: Fall only
Independent learning of word parts, including prefixes, suffixes, and roots, and the combination of these parts to form complex symptomatic, diagnostic, operative, and therapeutic medical terms related to the language of allied health professions; approved medical abbreviations will also be included.

RAD 208 Radiographic Procedures I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in RAD 200.
Co-requisites: RAD 208L.
Taught: Fall only
Radiographic anatomy, positioning, and image analysis of the appendicular skeleton, shoulder and pelvic girdles, and vertebral column to include routine, nonroutine, trauma and surgical radiography.

RAD 208L Radiographic Positioning Laboratory I (1 credit)
Hours: 0 classroom + 2 lab/studio
Co-requisites: RAD 208.
Taught: Fall only
Radiographic positioning of the appendicular skeleton, pelvic and shoulder girdles, and vertebral column using simulation and phantoms; supervised practice and image analysis. Pass/fail only.

RAD 209 Radiographic Procedures II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: RAD 208.
Co-requisites: RAD 209L.
Taught: Spring only
Continuation of RAD 208. Introduction to contrast studies; radiographic anatomy, positioning, and image analysis of the cervical and thoracic spine, gastrointestinal, biliary and urinary systems, bony thorax, and cranium.

RAD 209L Radiographic Positioning Laboratory II (1 credit)
Hours: 0 classroom + 2 lab/studio
Co-requisites: RAD 209.
Taught: Spring only
Radiographic positioning of the cervical and thoracic spine, gastrointestinal, biliary, and urinary systems, bony thorax, and cranium using simulation and phantoms; supervised practice and film critique. Pass/fail only.

RAD 214 Analysis of Radiographic Quality (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in RAD 200.
Co-requisites: RAD 214L.
Taught: Fall only
Principles of radiographic exposure variables and processing; analysis of the radiographic image; problem-solving approach to practical application of principles.

RAD 214L Analysis Radiographic Quality Laboratory (1 credit)
Hours: 0 classroom + 2 lab/studio
Prerequisites: C or better in RAD 200.
Co-requisites: RAD 214.
Taught: Fall only
Laboratory demonstration and experimentation coordinated with principles taught in RAD 214.

RAD 216 Physical Principles of Radiographic Equipment (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in RAD 214.
Taught: Spring only
Principles of electromagnetism and the relationship to radiographic circuitry and equipment; construction and design of radiographic, fluoroscopic, mammographic, tomographic, and digital equipment.

RAD 220 Professional Communication in Health Science (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: C or better in RAD 200.
Taught: Spring only
This course offers an introduction to methods of professional communication relative to health care delivery topics will include professionalism, ethical and legal issues, charting, health informatics, the team concept in health care, and culture and diversity as they relate to communication in health care.

RAD 286 Radiographic Practicum I (3 credits)
Hours: 1 classroom + 16 lab/studio
Prerequisites: RAD 200.
Taught: Fall only
Clinical application of principles of radiographic positioning, technique, and radiation protection; competency in chest, abdominal, appendicular skeleton, lumbar spine, shoulder, and pelvic girdle radiography. Conducted under supervision of registered radiographers and clinical faculty.

RAD 296 Radiographic Practicum II (3 credits)
Hours: 1 classroom + 16 lab/studio
Prerequisites: C or better in RAD 286.
Taught: Spring only
Clinical application of principles of radiation protection and of radiographic positioning and technique; competency in portable radiography and in radiography of the cervical and lumbar spine, bony thorax, cranium and G-U and G-I systems. Conducted under supervision of registered radiographers and clinical faculty.

RAD 299 Independent Study in Radiology (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Variable, check with department
Individual readings, research, and/or clinical based coursework developed by the student in consultation with the instructor and approved by the radiologic technology program director prior to registration.

RAD 303 Radiographic Procedures III (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in RAD 209.
Taught: Fall only
Pediatric, geriatric, trauma, and surgical radiography; mammography; introduction to specialized non-vascular and vascular radiographic procedures and equipment; lecture/discussion and guest speakers.

RAD 308 Radiographic Procedures IV (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in RAD 209.
Taught: Variable, check with department
Specialized non-vascular radiographic procedures, including trauma radiography, mammography, HSG, myelography and arthrography exams. Informed consent process, aseptic techniques, venipuncture and pharmacology will also be covered. Additional topics include best practices for imaging exams on pediatric, geriatric and bariatric patients.

RAD 309 Radiographic Procedures IV (2 credits)
Hours: 2 classroom + 0 lab/studio
Prerequisites: C or better in RAD 308
Overview of vascular and interventional radiographic procedures and associated equipment; additional topics include pharmacology, venipuncture procedures, venous access devices, biopsy and draining procedures, and patient monitoring and assessment.
**RAD 310 Sectional Anatomy (3 credits)**
Hours: 3 classroom + 0 lab/studio  
Prerequisites: C or better in RAD 334 or consent of instructor.  
Taught: Variable, check with department  
Cross-sectional human anatomy of the head, neck, thorax, abdomen, pelvis, spine, and extremities, as demonstrated on CT and MR images.

**RAD 334 Specialized Medical Imaging (2 credits)**
Hours: 2 classroom + 0 lab/studio  
Prerequisites: C or better in RAD 209.  
Taught: Fall only  
Introduction to specialized imaging and therapeutic modalities, including CT scanning, MRI, medical sonography, bone densitometry, nuclear medicine, and radiation therapy.

**RAD 340 Radiation Biology and Protection (3 credits)**
Hours: 3 classroom + 0 lab/studio  
Prerequisites: C or better in RAD 216.  
Taught: Fall only  
Biological effects of ionizing radiation; radiation safety requirements and procedures; laboratory demonstration/experimentation.

**RAD 350 Clinical Pathology for Radiographers (3 credits)**
Hours: 3 classroom + 0 lab/studio  
Prerequisites: C or better in RAD 303 and BIO 209.  
Taught: Spring only  
Anatomy, pathology, and mechanisms of disease with its radiological manifestation in radiographic studies; case studies; radiology presentations.

**RAD 360 Quality Assurance (2 credits)**
Hours: 1 classroom + 2 lab/studio  
Prerequisites: C or better in RAD 216.  
Taught: Spring only  
Clinical and administrative aspects of quality assurance to include: elements of QA; risk management; data collection and reporting; involvement of appropriate personnel; financial implications of QA; quality control of diverse radiology equipment; accreditation standards.

**RAD 376 Radiographic Practicum III (2 credits)**
Hours: 0 classroom + 16 lab/studio  
Prerequisites: C or better in RAD 296.  
Taught: Summer only  
Clinical application of principles of radiation protection and of radiographic positioning and technique; competency in radiography of the skeletal and digestive systems. Five-week internship that includes a one-week evening assignment; conducted under supervision of registered radiographers and clinical faculty.

**RAD 400 Radiography Capstone (3 credits)**
Hours: 1 classroom + 0 lab/studio  
Prerequisites: C or better in RAD 340.  
Taught: Spring only  
Comprehensive review and assessment of essential concepts in radiography; preparation for the ARRT examination.

**RAD 386 Radiographic Practicum IV (3 credits)**
Hours: 1 classroom + 16 lab/studio  
Prerequisites: C or better in RAD 376.  
Taught: Fall only  
Clinical application of principles of radiographic positioning, technique, and radiation protection; competency in surgical and non-routine radiography and continued competency in routine skeletal and contrast studies. Conducted under supervision of registered radiographers and clinical faculty.

**RAD 396 Radiographic Practicum V (3 credits)**
Hours: 0 classroom + 24 lab/studio  
Prerequisites: C or better in RAD 386.  
Taught: Spring only  
Clinical application of principles of radiographic positioning, technique, and radiation protection; introduction to advanced medical imaging modalities; continued competency development in non-routine radiography. Conducted under supervision of registered radiographers and clinical faculty.

**RAD 450 Advanced Imaging Pathology (3 credits)**
Hours: 3 classroom + 0 lab/studio  
Prerequisites: C or better in RAD 396.  
Taught: Variable, check with department  
Anatomy, pathology, and mechanisms of disease with its radiological manifestation in nuclear medicine, CT, MRI, cardiac and vascular imaging, ultrasound, doppler, and mammography studies; case studies; radiology presentations.

**RAD 470 Topics: Advanced Imaging (3 credits)**
Hours: 3 classroom + 0 lab/studio  
Prerequisites: C or better in RAD 396.  
Taught: Variable, check with department  
In-depth study of theory, principles, and applications of magnetic resonance imaging, computed tomography, or vascular imaging. Offered according to demand and interest of students or a maximum of 9 semester hours.

**RAD 494 Topics: Radiology (3 credits)**
Hours: 3-6 classroom + 0 lab/studio  
Taught: Variable, check with department

**RAD 496 Practicum: Advanced Imaging (3-6 credits)**
Hours: 0 classroom + 24 lab/studio  
Prerequisites: C or better in RAD 396.  
Taught: Variable, check with department  
Clinical application of principles of CT, MRI, or special procedures; content includes procedures, equipment, image production and/or scanning techniques. Conducted under supervision of registered technologists and clinical faculty. May be repeated for a maximum of 9 semester hours.

**RAD 499 Special Topics Radiology (3 credits)**
Hours: 3 classroom + 0 lab/studio  
Taught: Variable, check with department  
Intensive study of a special topic or issue in radiologic technology through independent study. May be repeated for credit.

**Reading Workshop Courses (RDG)**

**RDG 091 Reading Workshop (3 credits)**
Hours: 3 classroom + 0 lab/studio  
Taught: Fall and spring  
Practice and instruction in reading and reading appreciation; literate behaviors; book selection; reading strategies, processes, comprehension; critical and creative response to materials read. Not applicable toward graduation. For students needing additional preparation for ENG 101.

**RDG 110 Critical Reading (1-3 credits)**
Hours: 1-3 classroom + 0 lab/studio  
Taught: Fall and spring  
Development of critical reading strategies including analysis, synthesis, and evaluation; cultural literacy; contemporary issues in the natural sciences, social sciences, and humanities. Provides preparation for general education courses in a variety of disciplines.

**Religious Studies Courses (REL)**

**REL 200 World Religions and Cultures - AH (3 credits)**
Hours: 3 classroom + 0 lab/studio  
Taught: Fall and spring  
This course is to introduce students to one or more of the following religions: Indigenous Sacred Ways, Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, Judaism, Christianity, Islam. The historical development of the religions studies, the major beliefs and the interactions within and between cultures will be considered.
REL 301 Ancient Religions (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Variable, check with department
A comparative journey through religious ideas and practices in lands around the Mediterranean from pre-history to the Fall of Rome will include recognition of the transmission of many aspects of culture from east to west.

REL 302 Survey of the Hebrew Bible (Old Testament) (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Variable, check with department
Major figures, main themes, basic values, and primary beliefs found in the Hebrew Bible in its religious, philosophical, political and historical contexts.

REL 303 Survey of New Testament (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Variable, check with department
Major figures, main themes, basic values and primary beliefs of New Testament writings in their religious, philosophical, political and historical contexts.

REL 305 Islam (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Variable, check with department
This course is both historical and topical in its treatment of Islam. Our first emphasis will be on the life and career of Prophet Muhammad, the teachings of the Qur’an, the development of the Muslim community and its principal institutions to about 1300 CE. Topically we will cover the Qur’an, the basic beliefs and practices of Islam, and Sufism (Islamic mysticism). We will also consider the current situation in the Islamic world and the Islamic community.

REL 306 Introduction to Judaism (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Variable, check with department
Introduction to the history of Judaism, major beliefs, branches, ceremonies and rituals central to contemporary Jewish life. This course is sponsored by the Jewish Chautauqua Society.

REL 307 Survey of Christianity (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Variable, check with department
A comparative journey through religious ideas and practices in lands around the Mediterranean from pre-history to the Fall of Rome will include recognition of the transmission of many aspects of culture from east to west.

REL 320 Religion in America (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Spring only-even yrs
Reading and discussion of writings of representative contemporary theologians and writers; development of awareness of basic issues and patterns in recent theological thinking.

REL 330 Contemporary Religious Thought (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Spring only-even yrs
Reading and discussion of writings of representative contemporary theologians and writers; development of awareness of basic issues and patterns in recent theological thinking.

REL 335 World Religions and Ethics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Variable, check with department
Comparative study of the ethical dimension of the world religions: moral ideals, models of virtue, codes of ethics, views on topics such as the relation between the sexes, race, work, home, human rights, political responsibility and war; focus mainly upon Hinduism, Buddhism, Islam, Judaism and Christianity.

REL 336 Human Religious Experience (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Variable, check with department
Various facets of the experiential dimension of religion (e.g., the religious life, the communication of religious experience, religious autobiography, theories of the nature and function of religious experience and mysticism).

REL 370 Religion and Science (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Fall only-even years
Various approaches to the relationship between religion and science; historical conflict; the developing dialogue between religion and science; cosmology, evolution. The course seeks to introduce students to a wide range of concerns and does not presuppose detailed knowledge of religion or science.

REL 394 Topics: Religious Studies (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing or consent of the instructor.
Taught: Variable, check with department
In-depth examination of a major thinker, school, or issue in religious studies. Topic announced in Schedule of Classes. May be repeated as topics vary.

REL 499 Independent Study (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Individually supervised readings and study of a selected topic. May be repeated.

REL 594 Topics in Religious Studies (3 credits)
Prerequisites: Consent of instructor.
Individually supervised readings and study of a selected topic. May be repeated as topics vary.

REL 599 Independent Study (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Individually supervised readings and study of a selected topic in religious studies. May be repeated as topics vary.

Respiratory Care Courses (RSP)

RSP 101 Introduction to Allied Health (1 credit)
Hours: 1 classroom + 0 lab/studio
Taught: Spring only
Introduction to the professions of respiratory care and radiologic technology, including basic job responsibilities/scope of practice, medical terminology, and patient assessment. More specific information regarding the respiratory care and radiography programs will be presented. Same as RAD 101.

RSP 201 Fundamentals of Respiratory Care (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to respiratory care program.
Co-requisites: RSP 201L and RSP 206.
Taught: Fall only
Introductory respiratory care theory and procedures; basic respiratory system anatomy and physiology, administration procedures for aerosolized medications; theory and equipment for oxygen therapy, pulse oximetry, hyperinflation therapy, and mucous clearance techniques.
RSP 201L Respiratory Care Equipment and Procedures (1 credit)
Hours: 0 classroom + 2 lab/studio
Co-requisites: RSP 201.
Taught: Fall only
Demonstration and practice in basic respiratory care procedures; proper body mechanics, patient assessment, administration of oxygen therapy, bland aerosol therapy, incentive spirometry, aerosolized medication, and mucus clearance techniques.

RSP 202 Medical Terminology for Health Professions (1 credit)
Hours: 1 classroom + 0 lab/studio
Co-requisites: RAD 208 or RSP 201.
Taught: Fall only
Independent learning of word parts, including prefixes, suffixes, and roots, and the combination of these parts to form complex symptomatic, diagnostic, operative, and therapeutic medical terms related to the language of allied health professions; approved medical abbreviations will also be included.

RSP 220 Introduction to Respiratory Critical Care (4 credits)
Hours: 3 classroom + 2 lab/studio
Prerequisites: RSP 201 and RSP 201L with grades of C or better.
Prerequisite OR Co-requisite: BIO 209 and BIO 209L.
Taught: Spring only
Theory, application and demonstration of procedures and equipment used for advanced respiratory care and emergency procedures, airway management, non-invasive ventilatory support, arterial blood gas collection, ECG arrhythmia recognition and treatment.

RSP 235 Respiratory Physiology and Physics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: RSP 201, RSP 201L, BIO 208 and BIO 209L.
Co-requisites: BIO 209 and BIO 209L.
Taught: Spring only
Functional anatomy of respiratory systems structures; mechanics and control of ventilation; pulmonary blood flow and the matching of ventilation with perfusion; acid-balance and the interpretation of blood gases; oxygen transport and the concepts of shunting and dead space; physics of gasses applicable to respiratory care.
PREREQ OR

RSP 286 Clinical Practicum I (3 credits)
Hours: 0 classroom + 24 lab/studio
Co-requisites: RSP 201 and RSP 201L.
Taught: Fall only
Professionally supervised experience in basic respiratory care procedures in acute-care hospitals: oxygen administration, lung expansion therapies, aerosolized medication administration, and mucus clearance techniques; proper documentation and preparation of clinical case reports.

RSP 296 Clinical Practicum II (3 credits)
Hours: 0 classroom + 24 lab/studio
Prerequisites: RSP 286.
Co-requisites: RSP 220-220L.
Taught: Spring only
Professionally supervised experience in basic and intermediate respiratory care procedures; suctioning, hand ventilation, arterial puncture, phlebotomy, CPR, and care of patients with artificial airways; developing skill in time management, organization and effective communication with other healthcare professionals.

RSP 299 Independent Study: Respiratory Care (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Variable, check with department
Individually supervised work involving readings, research, and/or clinical activities in areas of special interest or need. Topics, activities, and evaluation procedures specified by instructor and approved by program director prior to registration. May be repeated for a maximum of 6 semester hours.

RSP 310 Advanced Critical Care (5 credits)
Hours: 4 classroom + 1 lab/studio
Prerequisites: C or better in RSP 220.
Taught: Summer only
This course provides instruction, demonstration, and practice in the theory, set-up, operation and maintenance of mechanical ventilators and related equipment. Topics include: mechanical ventilator theory for adults, ventilator operation, ventilator maintenance and trouble shooting.

RSP 331 Cardiopulmonary Diagnostics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: RSP 310.
Taught: Fall only
Overview of the various areas comprising cardiopulmonary diagnostics to include normal and abnormal pulmonary function and related technology; emphasis will be on performance, interpretation, and evaluation of pulmonary function studies; operation and maintenance of pulmonary function and gas analysis equipment; other topics include sleep laboratory, stress and exercise testing, metabolic testing, ventilation/perfusion scanning, cardiac catheterization laboratory, and non-invasive cardiology.

RSP 340 Pulmonary Rehabilitation (1 credit)
Hours: 1 classroom + 0 lab/studio
Taught: Spring only
Components of a pulmonary rehabilitation program; physiological and psychosocial problems of patients with chronic pulmonary disease; design and implementation of a program of education and exercise tailored to meet needs of the individual patient.

RSP 350 Cardiopulmonary Pathophysiology (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Assessment techniques for pulmonary disease patients including history taking, chest physical exam, basic radiography, lab study, and PFT interpretation, pulmonary and critical care medicine, obstructive and restrictive pulmonary disease, cardiac and cardiovascular disorders, neurologic and neuromuscular disorders, shock, trauma, sepsis, near drowning, burns, smoke inhalation, carbon monoxide poisoning, drug overdose, renal failure, acute G.I. disturbances, and respiratory care of the post-operative patient will be reviewed.

RSP 362 Prenatal-Pediatric Respiratory Care (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: RSP 201 and RSP 201L.
Co-requisites: RSP 350.
Taught: Fall only
Prenatal lung development, fetal circulation, and changes at birth; differences in respiratory anatomy and physiology between young children and adults; specialized techniques of airway management and artificial ventilation; applications of respiratory system monitoring and therapeutic modalities; respiratory diseases commonly seen in pediatrics.

RSP 386 Clinical Practicum III (3 credits)
Hours: 0 classroom + 16 lab/studio
Prerequisites: RSP 286.
Co-requisites: RSP 310.
Taught: Fall only
Artificial ventilation to patients on life support; initial ventilator set-up, control adjustments, monitoring, circuit changes, and weaning; further experience with artificial airways and routine respiratory care procedures in the critical care setting.

RSP 396 Clinical Practicum IV (3 credits)
Hours: 0 classroom + 16 lab/studio
Prerequisites: RSP 286.
Co-requisites: RSP 331 and RSP 362.
Taught: Fall only
Further experience in applications of respiratory care in the intensive care unit, cardiopulmonary monitoring, applications of pulmonary rehabilitation, pediatric respiratory care.

RSP 400 Advanced Respiratory Care (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to Respiratory Care BS Completion Program.
Taught: Variable, check with department
Demonstration of cognitive, critical thinking, and technical skills in respiratory care; relationship
between the therapist, physician, nurse, and other healthcare professionals to foster behavior of the respiratory therapist.

**RSP 430 Advanced Pathophysiology (3 credits)**
*Hours: 3 classroom + 0 lab/studio*
*Prerequisites: RSP 350.*
*Taught: Variable, check with department*

Focus on competencies for RT in the critical care setting; administration of specialty gases, advanced airway management and ventilation techniques, recognition of mechanisms of respiratory failure; end of life care; disaster preparation; anticipation of care based on pharmacologic agents, and other diagnostic procedures.

**RSP 441 Case Studies in Evidence Based Practice (3 credits)**
*Hours: 3 classroom + 0 lab/studio*
*Prerequisites: RSP 350.*
*Taught: Variable, check with department*

Students will review the delivery of health care to chronically ill patients with lung and heart disorders with emphasis on the respiratory care; patient case reviews will utilize a multidisciplinary approach to case management and responsibilities unique to the respiratory therapist.

**RSP 442 Disease Management II (3 credits)**
*Hours: 3 classroom + 0 lab/studio*
*Prerequisites: C or better in RSP 441.*
*Taught: Variable, check with department*

Students will review the rationale and methods used in cardiopulmonary diagnostics and cardiopulmonary rehabilitation in hospital-based programs, long-term care facilities, and in the home. Patient case reviews will utilize a multidisciplinary approach to case management and responsibilities unique to the respiratory therapist.

**RSP 445 Health Assessment and Promotion (3 credits)**
*Hours: 3 classroom + 0 lab/studio*
*Taught: Fall and summer*

Concepts and applications related to advanced assessment procedures for patients with respiratory impairment; pulmonary rehabilitation, home health care, health assessment, smoking cessation, and health behavior and promotion.

**RSP 451 Polysomnography I (3 credits)**
*Hours: 2 classroom + 1 lab/studio*
*Taught: Variable, check with department*

This course is designed to provide both didactic and laboratory training for entry-level personnel in the basics of Polysomnography Technology. Students will become familiar with medical terminology, instrumentation setup and calibration, recording and monitoring techniques, documentation, professional issues, and patient-technologist interactions related to Polysomnographic Technology. Laboratory sessions will provide practical experience.

**RSP 452 Polysomnography II (3 credits)**
*Hours: 2 classroom + 2 lab/studio*
*Prerequisites: RSP 350.*
*Taught: Variable, check with department*

Presentation and discussion of psychomotor practices related to interpretation of the polysomnogram for adult and pediatric patients. Emphasis on therapeutic equipment, protocols, artifact recognition and troubleshooting of the equipment.

**RSP 480 Respiratory Care Seminar (3 credits)**
*Hours: 3 classroom + 0 lab/studio*
*Prerequisites: Junior status in the respiratory care program.*
*Taught: Spring only*

Contemporary ethical and legal issues affecting the practice of respiratory care; effects of managed care and other market forces on departmental operations; resume preparation and other job search skills; preparation for and practice with Entry Level, Written Registry, and Clinical Simulation examinations for self-assessment.

**RSP 486 Clinical Practicum (3 credits)**
*Hours: 0 classroom + 16 lab/studio*
*Prerequisites: RSP 398.*
*Taught: Spring only*

Experience providing neonatal respiratory care; training in airway management techniques; development of leadership and time management skills; pulmonary rehabilitation, clinical simulations in lab setting, formulate differential diagnosis for case presentations, summative clinical/role transition rotations.

**RSP 494 Respiratory Care Capstone (3 credits)**
*Hours: 1 classroom hour; 2 lab/studio*
*Co-requisites: RSP 480.*
*Taught: Fall and spring*

Under faculty supervision the students will be placed with a clinical preceptor who will work with the student to identify and define in writing a current, real world, respiratory care clinical or management problem; survey the literature to see what has been published regarding this type of problem, design a project or intervention to address the problem, implement the project or intervention, and evaluate the effectiveness of the project or intervention in correcting the problem.

**RSP 496 Clinical Practicum VI (3 credits)**
*Hours: 3 classroom + 0 lab/studio*
*Taught: Variable, check with department*

Students will complete clinical competencies focused in the areas of specialization of either disease management or polysomnography.

**Russian Courses (RUS)**

**RUS 101 Elementary Russian I - AH (3 credits)**
*Hours: 3 classroom + 0 lab/studio*
*Taught: Fall only*

Fundamentals; introduction to cultures of Russian-speaking countries; basic principles of the Russian language including study of the Cyrillic alphabet, pronunciation, and simple idioms.

*General education credit: Culture and Creativity*

**RUS 102 Elementary Russian II (3 credits)**
*Hours: 3 classroom + 0 lab/studio*
*Prerequisites: RUS 101 or equivalent.*
*Taught: Spring only*

Continuation of RUS 101, with addition of new vocabulary and more complex grammar and idiom forms.

**RUS 201 Intermediate Russian I (3 credits)**
*Hours: 3 classroom + 0 lab/studio*
*Prerequisites: RUS 102.*
*Taught: Variable, check with department*

Continuation of RUS 102, with addition of new vocabulary and more complex grammar and idiom forms, as well as more complex cultural and literary readings.

**RUS 202 Intermediate Russian II (3 credits)**
*Hours: 3 classroom + 0 lab/studio*
*Prerequisites: RUS 201.*
*Taught: Variable, check with department*

Continuation of RUS 201; advanced vocabulary and more complex grammar and idiom forms, as well as more complex cultural and literary readings.

**Integrated Sciences Courses (SCI)**

**SCI 100 SOAR Freshman Seminar I (2 credits)**
*Hours: 2 classroom + 0 lab/studio*
*Taught: Fall only*

First part of a specialized University 101 course specifically for Project SOAR: Scholarships, Opportunities, Achievements, and Results (SOAR) Scholars.

**SCI 101 Introduction to STEM Careers (1 credit)**
*Hours: 1 classroom + 0 lab/studio*
*Taught: Spring only*

Introduction to degrees and careers in science, technology, engineering, and mathematics (STEM), engaging students in discovery and discussion about the nature of the disciplines, distinctions and connections between them, and opportunities within them.
Sociology Courses (SOC)

SOC 100 Introduction to Sociology - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
Sociology is the scientific study of society. More specifically, it is the study of ways in which humans construct meanings and organize social relationships and activities. This discipline seeks to develop students’ ability to observe and think critically about their own and other societies and to become more sensitive to behavioral and value differences among people (which powerfully shape attitudes and opinions). Serious students of sociology will learn that sociological concepts, theories, and methods are powerful analytical tools for making connections between personal problems and larger social issues and for understanding how local, regional, national and global communities are intertwined. Such understanding and skills will facilitate decision-making and constructive ethical and responsible action to address the issues we face today.

General education credit: Individual and Society.
General education credit: Global Viewpoints

SOC 101 Global Inequalities - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
Global inequality is the study of ways in which humans construct meanings as they relate to similarities and differences and organize social relationships and activities in ways that advantage some groups over others. Special emphasis is paid to inequalities across and within countries, effects of imperialism and colonialism on linguistic or cultural diversity; theories of cultural development, the interconnections between and differences among local, national, and global communities; and the influence of cultural and socioeconomic background in shaping attitudes and opinions (in themselves and others).

General education credit: Global Viewpoints

SOC 102 Juvenile Delinquency (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Definition; investigation of evidence and etiology; judicial change and youth corrections.

SOC 103 Social Psychology (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Interactionist approach to study of development of the self; social roles; identity; social relationships; creativity; deviance; social control.

SOC 104 Social Research (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
An analysis of work and occupations in the global economy as well as the structural forces that impact work in the USA and internationally.

SOC 105 Criminology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Introduction to database creation, management and analysis. Designed to give students hands-on experience assessing, building, evaluating, applying and drawing conclusions related to large data sets.

SOC 106 Managing and Interpreting Data (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Overview of the research process; principles of research design; major methods of data collection; interviewing techniques; hand-on experience with selected research design and analysis.

SOC 107 Social Stratification (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Structure and function of organized groups and organizational behavior; formal organization.

SOC 108 Social Organization (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Introduction to database creation, management and analysis. Designed to give students hands-on experience assessing, building, evaluating, applying and drawing conclusions related to large data sets.

SOC 109 Sociology of Work and Occupations (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Introduction to database creation, management and analysis. Designed to give students hands-on experience assessing, building, evaluating, applying and drawing conclusions related to large data sets.

SOC 110 Integrative Science - SL (4 credits)
Hours: 2 classroom + 3 lab/studio
Prerequisites: Math ACT of 19 or placement. Prerequisite OR Co-requisite: ENG 101.
Taught: Spring only
Introduction to science, engineering and mathematical concepts through laboratory experiments and application of algebraic functions in problem solving through the perspective of a critical thinker. Hands-on activities, the scientific process and mathematical modeling of physical systems in an inquiry-based, active-learning environment will lead to students’ discovery of scientific concepts.

General education credit: Natural Science

SCI 110H Honors Integrative Science - SL (4 credits)
Hours: 2 classroom + 3 lab/studio
Prerequisites: Math ACT of 22 or placement ENG 101. Prerequisite OR Co-requisite: ENG 101.
Taught: Spring only
Introduction to science, engineering and mathematical concepts through laboratory experiments and application of algebraic functions in problem solving through the perspective of a critical thinker. Hands-on activities, the scientific process and mathematical modeling of physical systems in an inquiry-based, active-learning environment will lead to students’ discovery of scientific concepts.

General education credit: Natural Science

SOC 202 Juvenile Delinquency (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Definition; investigation of evidence and etiology; judicial change and youth corrections.

SOC 203 Social Psychology (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Interactionist approach to study of development of the self; social roles; identity; social relationships; creativity; deviance; social control.

SOC 204 Social Research (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Overview of the research process; principles of research design; major methods of data collection; interviewing techniques; hand-on experience with selected research design and analysis.

SOC 205 Current Social Issues (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Analysis of one or more major current issues, e.g., abortion, nuclear proliferation, poverty, or fundamentalist religious movements; advancement of student comprehension of social issues, using the perspective and methods of sociology. Topics will change regularly and will be announced at time of offering.

SOC 206 Social Organization (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Introduction to database creation, management and analysis. Designed to give students hands-on experience assessing, building, evaluating, applying and drawing conclusions related to large data sets.

SOC 207 Social Stratification (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Introduction to database creation, management and analysis. Designed to give students hands-on experience assessing, building, evaluating, applying and drawing conclusions related to large data sets.

SOC 208 Social Research (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Overview of the research process; principles of research design; major methods of data collection; interviewing techniques; hand-on experience with selected research design and analysis.
SOC 321 Applied Social Research (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100 (SOC 320 strongly recommended).
Taught: Variable, check with department
Application of standard social science techniques for analyzing social data; introduction to use of computers, social science software programs, and frequently used statistical routines in processing information generated by research studies.

SOC 322 Qualitative Research Methods (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Introduction to the theory and methods of qualitative research. Students will learn the basics of research design and analysis, featuring data gathered using interview techniques, content analysis, ethnography, observation, and other qualitative research methods. Special attention will be given to the research ethics that guide sociological research.

SOC 330 Classical Sociological Theory (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Fall and spring
Major classical sociological theories and their exponents.

SOC 332 Collective Behavior (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Collective behavior; factors and processes at work in emergence of social order.

SOC 334 Contemporary Sociological Theory (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Spring only
Provides students with an analysis and understanding of the major contemporary theories that underlie both quantitative and qualitative sociological research.

SOC 335 Popular Culture (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Expression and contest of popular culture as it relates to social change and thought in U.S. during the 20th century; social implications of democratic ideals, sexual mores, arts vs. pornography, youth culture, roles of music and advertising, images of women, and social and ethnic stereotypes.

SOC 340 Population (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Fertility, mortality, and internal and international migration; population dynamics; interdependence of demographies and social and economic variable.

SOC 342 Sociology of Aging (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Social and demographic characteristics of the elderly population; sociological theories and methods for studying the elderly; adjustment problems of aging; prejudice and discrimination against the elderly.

SOC 345 Native American Social Issues (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
This course covers a range of social issues faced by contemporary Native Americans on and off reservations. Issues are presented within diverse social and historical contexts. Activist responses are considered along with the social consequences of past and current initiatives and policies.

SOC 350 Women and Crime (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Sociological analysis of gender issues for women as victims, offenders, and professionals in law enforcement; power imbalance experienced by women in criminal justice.

SOC 355 Sociology of the Environment (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Analysis of social causes and consequences of environmental degradation; examination of responses to U.S. environmental problems by government, communities, and environmental organizations; assessment of U.S. environmental policies; application of sociological theory and research methods to environmental issues.

SOC 357 Guns and Society (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Social and demographic analysis of the characteristics of the ownership, usage, and impact of guns in the U.S.; cross-cultural perspective on the development of gun cultures.

SOC 360 Technology and Social Change (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Sociological analysis of interaction of technology and society; social issues arising with technological advancement; sociological factors influencing the direction of technological change and the adoption of technology; issues of the role of science in contemporary society.

SOC 364 Women and Men in Society (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Using major theoretical perspectives, the course provides an analysis of the roles of women and men in American society, as well as cross culturally; provides a greater understanding of the social forces influencing women and men in society.

SOC 369 Sex Crimes (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100 or JUS 101.
Taught: Variable, check with department
Sociological analysis of patterns of sex crimes and responses to them; primary focus on the United States.

SOC 370 The Sociology of Surveillance (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Fall only-even years
A transdisciplinary approach to how surveillance technologies and societies interacted to change social life post-9/11 including the production of security, fear, control, vulnerability and/or empowerment to resist it. Includes the surveillance capacities of social media, the systematic monitoring of institutions, individuals, public and private spaces, and how social behavior has responded.

SOC 380 Elite Deviance (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Sociological examination of corporate and governmental deviance.

SOC 381 Deviance and Social Control (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Forms of social control used to maintain social order; techniques of control ranging from manners to law.
SOC 394 Topics: Sociology (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
A recent development in any phase of sociology. See Schedule of Classes for current topic and prerequisites.

SOC 400 Urban Society (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Urbanization, industrialization, metropolitanization, and urban ecology; impact of large-scale population aggregations on social institutions; adaptation and adjustment of migrants; developing nations.

SOC 415 Sociology of Planning and Development (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Provides students with a sociological perspective of the planning and development process. Examines who, what, where, and when of the planning process and at what point in planning and development do various populations have access to the process and to what extent do all have a say in the process.

SOC 425 Political Sociology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100, or PSC 100.
Taught: Variable, check with department
Theories of power and legitimacy; elites and masses; power structures of U.S. and other societies; social correlates of political ideology; socio-political movements.

SOC 430 Sociology of Religion (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Religion as a social institution; religious behavior; structure and function of religious institutions; interdependence with other social institution.

SOC 435 Sociology of Sexualities (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
While ‘human sexuality’ may seem to be static and biologically determined, in sociology we see sexualities as complex, varied, and shaped by social forces, influencing life chances and quality of life for people of various cultural, social, and historical circumstances. This course examines sexualities in these contexts.

SOC 450 Medical Sociology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Major sociological theories of sickness and health; social and cultural aspects of disease definition, help seeking, and response to illness; provider-patient roles and relationships; health care delivery systems in various societies.

SOC 460 Research Practicum Preparation (1 credit)
Hours: 1 classroom + 0 lab/studio
Prerequisites: SOC 322 or ANT 325.
Taught: Variable, check with department
Small-group seminar to introduce practicum skills: finding a placement assignment, writing a project proposal, making a contract, working with agency/business personnel, working in teams, scheduling projects, writing reports, managing time. Same as ANT 460.

SOC 480 Global Aging Issues and Policies (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Global aging issues and policies with emphasis on the health and care of aging populations, theories of adult development, cross-cultural comparisons and social gerontology. Addresses the relationships and interactions between and among the elderly, their families, social and health care professionals, and the various organizations that serve them.

SOC 485 Sociology of Global Issues (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Provides an analysis of concepts, theories, and social and cultural relationships among and within societies. Examines the institutional structures as well as counter structures (e.g. NGOs) that influence the networks of power among societies and the well being of their populations.

SOC 488 Sociology of Law (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100.
Taught: Variable, check with department
Social and cultural factors influencing emergence and maintenance of law as a social institution and affecting relations between law and deviant behavior; theoretical and methodological issues encountered in study of law.

SOC 491 Research Practicum II (3 credits)
Hours: 3-6 classroom + 0 lab/studio
Taught: Variable, check with department
Continuation of SOC 391. Same as ANT 491.

SOC 494 Seminar: Sociology Senior Seminar (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SOC 100 and at least 21 semester hours in sociology and senior standing.
Taught: Fall only
Senior seminar required as a capstone experience for seniors majoring in sociology.

SOC 499 Readings: Sociology (1-6 credits)
Hours: 3-6 classroom + 0 lab/studio
Prerequisites: consent of instructor.
Taught: Variable, check with department
Specialized topics or research interest.

SOC 594 Topics: Sociology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Selected topics in sociology. May be repeated as topics vary.

SOC 599 Independent Study (3 credits)
Hours: 3-6 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Individually supervised readings and study of a selected topic in sociology. May be repeated as topics vary.

Sports Business Courses (SPB)

SPB 200 Rivalry and Rituals: International Sport (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
‘Rivalry and Rituals’ uses the socially prominent context of international sports to examine cultural development, influence and conflict within and across persons and geographic boundaries.

SPB 305 Sports Marketing and Promotion (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MKT 205.
Taught: Fall and spring
Sports Marketing will build upon the marketing knowledge base and provide an overview of all the issues faced by marketing managers within the sports industry and outside the industry who market through sports. Students will be introduced to the unique qualities of the sports product and also examine the promotion mix, pricing and distribution issues as they relate to the sports industry.

SPB 307 Moneyball: The Economics of Sports (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in ECO 201.
Taught: Variable, check with department
Challenges students to apply economic theory to the unique aspects of college and professional
Sports. Highlights of the course include the industrial structure of sports, public financing of sports, and labor markets in sports.

**SPB 309 Sports Public Relations (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: C or better in MKT 205 or MKT 305.  
Taught: Fall and spring  
Introduction to the elements of the promotional mix that identify, establish and maintain mutually beneficial relationships between the sports organizations and the various publics on which its success or failure depends.

**SPB 330 Sports Legal Environment (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: Junior standing.  
Taught: Fall and spring  
This course will explore the landmark decisions and social environment, which have transformed sports into a very powerful industry enjoying special protection under the law. Topics will include sports franchise rights, legal issues, anti-trust laws, sports agents, injuries to athletics, intercollegiate sports, collective bargaining issues, the powers of the Commissioner and gender equality.

**SPB 350 Development and Fundraising in Sports (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: C or better in MKT 205, SPB 305.  
Taught: Fall only  
This course is designed to provide a comprehensive overview for the fundraising, donor relations, non-profit, premium seating, and ticket sales profession. Students are provided with an ethical foundation and are introduced to basic terminology and concepts in the field. While students develop an understanding of the essentials of fundraising operations, they will also examine larger issues confronting today's fundraising managers. Topics will include major gift fundraising, annual funds, booster club organizations, priority seating programs, and benefits, the importance of donor research in the fund raising process, and the process from development to the transaction.

**SPB 394 Topics: Sports Business Issues (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: SPB 305.  
Taught: Variable, check with department  
Specialized topics of faculty and student interest. Topics vary. May be taken two times for elective credit if topics differ.

**SPB 396 Internship: Sports Business (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: SPB 305 and consent of instructor.  
Taught: Fall, spring, and summer  
Supervised professional work experience in approved sport or sports related organization.

**SPB 480 Sports Business Strategies and Policies (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: SPB 305, SPB 308, certification as Sports Business major and senior standing.  
Taught: Fall and spring  
Application of theories to a wide variety of current issues and problems within the sports industry using case analysis.

**SPB 496 Sport Business Practicum (1-3 credits)**  
Hours: 1-3 classroom + 0 lab/studio  
Prerequisites: SPB 305 with a C or better and permission from instructor.  
Taught: Fall and summer  
This professional experience course involves 60 hours per credit hour of applied learning experiences within the sport industry. Students log field experience hours that include observing and providing assistance to a sports business professional in order to learn about the field of sports business and to gain professional experience and contacts.

**SPB 499 Independent Study: Sports Business (3 credits)**  
Hours: 1-3 classroom + 0 lab/studio  
Prerequisites: SPB 305, senior standing and consent of instructor.  
Taught: Variable, check with department  
Students pursue a topic or project of interest to them under faculty supervision. Meeting times by arrangement with instructor.

**Spanish Courses (SPI)**

**SPI 101 Elementary Spanish I - AH (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Taught: Fall and spring  
Fundamentals; introduction to Hispanic cultures; development of skills in conversation, pronunciation, grammar, reading, and writing.  
General education credit: Culture and Creativity

**SPI 102 Elementary Spanish II (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: For students who have completed SPI 101 or equivalent.  
Taught: Fall and spring  
Continuation of SPI 101.

**SPI 201 Intermediate Spanish I (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: For students who have completed SPI 102 or equivalent.  
Taught: Fall and spring  
Review and extension of basic language skills learned in SPI 101 and SPI 102; reading and discussion of cultural, linguistic, and literary subjects.

**SPI 202 Intermediate Spanish II (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: For students who have completed SPI 201 or equivalent.  
Taught: Fall and spring  
Continuation of grammar review and enhancement of language skills begun in SPI 201; cultural and literary subjects.

**SPI 304 Spanish Composition and Conversation (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: SPI 202 or equivalent.  
Taught: Fall and spring  
Advanced practice in writing Spanish compositions and in oral conversation skills.

**SPI 310 Spanish Culture and Civilization (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: SPI 202 or equivalent.  
Taught: Variable, check with department  
Study of eras, institutions, and issues in the history and culture of Spain and the Iberian peninsula; readings primarily in Spanish.

**SPI 311 Spanish-American Culture and Civilization (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: SPI 202 or equivalent.  
Taught: Variable, check with department  
Eras, institutions, and issues in Spanish-speaking countries of Central and South America; the Hispanic presence in the United States; readings primarily in Spanish.

**SPI 320 Survey of Peninsular Spanish Literature (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: SPI 202 or equivalent.  
Taught: Variable, check with department  
Overview of major authors and movements from the middle ages to the 20th century; readings in Spanish.

**SPI 321 Survey of Spanish-American Literature (3 credits)**  
Hours: 3 classroom + 0 lab/studio  
Prerequisites: SPI 202 or equivalent.  
Taught: Variable, check with department  
Overview of major authors and movements from the 18th to the 20th century; readings in Spanish.
SPI 322 Hispanic Drama (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SPI 202 or equivalent.
Taught: Variable, check with department
Survey of films produced in the Spanish language. Emphasizes both the aesthetic aspects of the films as well as their historical, political, social and cultural content. May be repeated as topics vary.

SPI 300 Methods of Teaching Spanish (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of Spanish on the 300 level or above.
Taught: Spring only
Pedagogical topics. May be repeated for credit when topics vary.

Statistics Courses (STA)

STA 110 Introductory Probability (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAHD 099 or MAHD 095 or placement.
Taught: Fall and spring
Study of major authors and texts in the history of Spanish theater, including representative twentieth-century playwrights. Readings in Spanish. May be repeated when topics vary.

SPI 330 Studies in Spanish Language
Hours: 3 classroom + 0 lab/studio
Prerequisites: 300 level or above or consent of instructor.
Taught: Variable, check with department
Focus on novel, novella, or short story. May be repeated as topics vary.

SPI 350 Methods of Teaching Spanish (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SPI 202 or equivalent.
Taught: Variable, check with department
Survey of films produced in the Spanish language. Emphasizes both the aesthetic aspects of the films as well as their historical, political, social and cultural content. May be repeated as topics vary.

SPI 323 Hispanic Prose Fiction (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SPI 202 or equivalent.
Taught: Variable, check with department
Focus on novel, novella, or short story. May be repeated as topics vary.

SPI 322 Hispanic Drama (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: SPI 202 or equivalent.
Taught: Variable, check with department
Focus on novel, novella, or short story. May be repeated as topics vary.

SPI 300 Methods of Teaching Spanish (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of Spanish on the 300 level or above or consent of instructor.
Taught: Spring only
Pedagogical topics. May be repeated for credit when topics vary.

SPI 481 Studies in Spanish and Spanish-American Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of Spanish on the 300 level or above or consent of instructor.
Taught: Variable, check with department
Topics in literature, literary history, and literary theory. May be repeated for credit when topics vary.

SPI 480 Studies in Spanish and Spanish-American Culture (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: 6 semester hours of Spanish on the 300 level or above or consent of instructor.
Taught: Variable, check with department
Topics in culture and language of Spanish-speaking countries. May be repeated for credit when topics vary.

SPI 499 Independent Study: Spanish (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Readings in language, literature, and culture.

SPI 520 Readings in Spanish (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of chairperson.
Taught: Variable, check with department
Readings in language, literature, and culture.

STA 204 Statistics for Middle Grades Teachers (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAHD 099 or MAHD 095 or placement.
Taught: Spring only
Concepts of statistical description and inference as they relate to middle and secondary standards; graphical displays of qualitative and quantitative data; measures of central tendency, variability, and position; normal distributions; linear regression and correlation; patterns of association in bivariate categorical data; simulation for inferential techniques, including confidence intervals and randomization tests; use of statistical software. Open only to students majoring in elementary or middle grades education or by instructor permit.

STA 205 Introduction to Statistical Methods - QR (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAHD 099 or MAHD 095 or placement.
Taught: Fall, spring, and summer
Graphical descriptive measures; numerical descriptive measures; probability; hypothesis testing, estimation; analysis of variance; chi-square; regression; analysis by means of statistical software. Credit is not given for both STA 205 and STA 212. Not open to students who have completed STA 250 or STA 314.

STA 212 Statistics for Business Applications I - QR (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in MAHD 099 or MAHD 095 or placement.
Taught: Fall, spring, and summer
Concepts of statistical description and inference and their use in business decision making; measures of central tendency and variability; hypothesis testing; estimation; linear regression;
and correlation; use of statistical software. Credit is not given for both STA 205 and STA 212. Not open to students who have completed STA 250 or STA 314.

General education credit: Mathematics

STA 213 Statistics for Business Applications II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in STA 212.
Taught: Fall, spring, and summer
Further development of key topics in STA 212; analysis of variance; chi-square tests; non-parametric inference; regression analysis; additional inference topics; use of statistical software.

STA 250 Probability and Statistics I (3 credits)
Hours: 3 classroom + 0 lab/studio
Co-requisites: MAT 227.
Taught: Fall and spring
Introduction to probability and statistics; discrete distributions, continuous distributions, sampling distributions, estimation and hypothesis testing.
PREREQ: C- or better in MAT 129 or CO-REQ: MAT 227.

STA 292 Introductory Statistical Research (0 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Introduction to research in statistics by participation in a special project or original research directed by a member of the Department of Mathematics and Statistics faculty. Course intended for statistics majors interested in statistics research but not ready or able to enroll in more advanced research courses. Pass/fail grade only.

STA 294 Topics: Statistics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Various topics in Statistics.

STA 299 Directed Readings/Independent Study (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department

STA 312 Elementary Survey Sampling (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in STA 205 or STA 212 or STA 250.
Taught: Spring only-even yrs
Describing sets of data; estimation; elements of survey samples; single random, stratified, cluster, and systematic sampling methods; ratio and regression estimation; sampling from wildlife populations. Students will be required to conduct and analyze an actual survey.

STA 314 Design and Analysis of Experiments (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in STA 213 or STA 250; or B- or better in STA 205 or STA 212.
Taught: Fall only
Analysis of variance and experimental design; multiple comparison techniques; factorial experiments; random and fixed effects models; nested and split plot designs; use of statistical software.

STA 316 Regression Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in STA 213 or STA 250; or B- or better in STA 205 or STA 212.
Taught: Spring only
Simple linear regression; multiple regression; diagnostics and remedial measures; logistic regression; additional topics in regression; use of statistical software. Not open to students who have completed STA 315.

STA 317 Introduction to Time Series Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in STA 213 or STA 316 or STA 341.
Taught: Fall only-odd years
Development of ARIMA models; estimation and confidence limits for model parameters; time series smoothing techniques; forecasting with ARIMA models; diagnostic checking.

STA 327 Categorical Data Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: B- or better in STA 205, STA 212, or STA 213; or C- or better in STA 250, STA 314 or STA 341.
Taught: Variable, check with department
A study of categorical variables and their analyses. Topics include: 2-way contingency tables; difference in proportions; marginal and conditional probabilities; independence; chi-square tests; relative risks and odds ratios; Simpson’s paradox; logistic regression; Poisson regression; use of advanced statistical software (such as R, SAS). Other topics, time permitting.

STA 340 Probability II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor and C- or better in STA 314 or STA 341.
Taught: Fall
Further study in statistics topics introduced in STA 250. Topics include confidence intervals and hypothesis testing, one-factor analysis of variance, simple linear regression, chi-square analyses, and nonparametric tests.

STA 360 Statistical Computing (3 credits)
Hours: 3 classroom + 0 lab/studio
Co-requisites: STA 314.
Taught: Fall-only
Use of high-level statistical software package; data management and manipulation including sorting, merging, subsets; data analysis including frequency distributions, contingency tables, tests for means, correlation, simple and multiple linear regression, and analysis of variance; programming techniques applied to statistical analysis.
PREREQ: C- or better in STA 213 or STA 314 or STA 316 or STA 341 or STA 370 Introduction to Statistical Consulting (3 credits)
Hours: 1 classroom + 6-9 lab/studio
Prerequisites: Consent of instructor and C- or better in STA 314 or STA 341.
Taught: Variable, check with department
Supervised application of statistical methods to real research problems in the Burkardt Consulting Center (BCC; readings and discussions on statistical consulting topics; attend meetings with clients of the BCC, manage data, analyze data, and produce summary reports under faculty supervision).

STA 392 Research in Statistics (0-3 credits)
Hours: 0-3 classroom + 0 lab/studio
Prerequisites: Consent of Instructor.
Taught: Variable, check with department
Original research in statistics directed by a member of the Department of Mathematics and Statistics faculty.

STA 394 Intermediate Topics: Statistics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Various topics in Statistics.
STA 399 Directed Readings/Independent Study (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department

STA 419 Applied Multivariate Statistics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in STA 360 and (STA 314 or STA 316 or STA 341).
Taught: Spring only-odd yrs
Introduction to multiple multivariate analysis techniques including: principal component analysis, factor analysis, discriminant analysis, logistic regression, and cluster analysis; other topics as time permits.

STA 450 Introduction to Actuarial Science (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in STA 340.
Taught: Variable, check with department
Advanced topics of probability theory; applications of probability in risk management and insurance; preparation for actuarial society examinations.

STA 470 Supervised Statistical Consulting (3 credits)
Hours: 1 classroom + 6-9 lab/studio
Prerequisites: Grade of P in STA 370.
Taught: Variable, check with department
Continuation of STA 370; more active involvement in consulting projects; completion of a major oral presentation.

STA 490 Statistics Research Proposal (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of department.
Taught: Variable, check with department
Development of a comprehensive proposal for a research project in Statistics. Includes feasibility study, identification of resources, establishment of appropriate goals, proposal writing, and a public defense. May not be applied toward elective hours in the mathematics or statistics major. Pass/Fail.

STA 491 Statistics Honors Research Project (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Passing grade in STA 490.
Taught: Variable, check with department
Supervised research in statistics concluding with a written report and public presentation of results.

STA 494 Advanced Topics: Statistics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Various topics in Statistics.

STA 499 Directed Readings/Independent Study (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department

STA 594 Topics: Statistics (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Topics in statistics. Topics vary.

Social Work Courses (SWK)

SWK 105 Social Work and the Community - SB (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
Introductory course designed to give the student interested in the social work profession an opportunity to explore the needs of client systems of diverse populations. Via the course materials and an experiential component, each student is provided with an avenue for testing and evaluating a commitment to, and a capacity for, working with people.
General education credit: Cultural Pluralism

SWK 106 Introduction to Social Justice - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
This class is an introduction to foundational concepts and ethical concerns in social justice studies. Course that promotes critical thinking, multiple perspectives, and a sense of personal responsibility in the local and global community. This course is the first in the sequence for the social justice minor.
General education credit: Global Viewpoints

SWK 203 Social Welfare in Contemporary Society (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
The systematic study of major social problem areas: poverty, health, education, hunger, housing, sexism, and racism, and their implications for social welfare services. A critical and comparative analysis of society's response to human need.

SWK 303 Professional Interational Skills (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Grade of C or better in SWK 105 and SWK 203 is required.
Co-requisites: SWK 304, SWK 305, and SWK 407.
Taught: Fall only
Basic components of effective communication in social work practice; interpersonal and intercultural skills relevant to different types of relationships and systems with which social workers interact; guided communication experiences. Course restricted to Social Work majors accepted into the program.

SWK 304 Human Behavior and Social Environment I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in SWK 105 and SWK 203.
Co-requisites: SWK 303, SWK 305 and SWK 407.
Taught: Fall only
This course focuses on the life states of infancy, childhood, and adolescence and provides a basic framework for developing and organizing knowledge of human behavior and the social environment. Social systems, life span and strengths approaches to understanding HBSE are introduced. The course includes theories and knowledge of biological, sociological, cultural, psychological, and spiritual development across the life span. The manner in which social systems promote or deter people in maintaining or achieving health and well-being are emphasized. Special attention is given to the impact of human diversity, discrimination and oppression on the individual's ability to reach or maintain optimal health and well-being. Course restricted to Social Work majors accepted into the program.

SWK 305 Social Work Practice I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Grade of C or better in SWK 105, SWK 203, SWK 303 and SWK 304.
Taught: Fall only
Basic frame of reference for the understanding and practice of social work; various kinds of systems with which the social worker interacts, types of relationships involved and essential generalist/problem solving methodology and skills. Course restricted to Social Work majors.

SWK 307 Human Behavior and Social Environment II (3 credits)
Hours: 5 classroom + 0 lab/studio
Prerequisites: Grade of C or better in SWK 105, SWK 203 is required.
Co-requisites: SWK 308, SWK 310, and SWK 405.
Taught: Spring only
This course focuses on the life stages of young adulthood, middle adulthood, and later adulthood. The focus is on the interactions between and among individuals, groups, societies, and economic systems. Course content includes empirically based theories and knowledge and teaches biological and social science concepts concerning human development that are fundamental to social work practice. Special attention is given to the impact of human diversity, discrimination and oppression on the individual's ability to reach or maintain optimal health and well-being. Course restricted to Social Work majors accepted into the program.
SWK 308 Social Work Research (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Grade of C or better in SWK 105 and SWK 203, and STA 113, 205, or 212 is required.
Co-requisites: SWK 307, SWK 310, and SWK 405.
Taught: Spring only
Needs assessment, case evaluation, and program evaluation; components of research design and statistics essential for understanding and carrying out these activities. Course restricted to Social Work majors accepted into the program.

SWK 310 Social Work Practice 2: Family and Groups (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Grade of C or better in SWK 105 and 203 is required.
Co-requisites: SWK 307, 308, and SWK 405.
Taught: Spring only
Selected practice modalities applied to social work intervention in small systems, emphasizing families, and groups. Students learn to apply problem-solving approach, task centered casework, psychosocial model, and behavior modification to these small systems. Course restricted to Social Work majors accepted into the program.

SWK 394 Topics: Social Welfare (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
A specific aspect of social welfare practice or social welfare concern. May be repeated for additional credit, up to 12 semester hours, when topic varies. See Schedule of Classes for current topic, offerings, and prerequisites.

SWK 405 Social Work Practice: Community Organizations (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in SWK 105 and 203.
Co-requisites: SWK 307, SWK 308 and SWK 310.
Taught: Fall only
Social work intervention in groups, organizations, and large systems; knowledge, skill, and appropriate worker role useful in working with neighborhood and community action groups and different types of organizations. Course restricted to Social Work majors accepted into the program.

SWK 406 Field Experience I (5 credits)
Hours: 5 classroom + 0 lab/studio
Prerequisites: Grade of C or better in SWK 303, 304, 305, 307, 308, 310, 405, 407.
Taught: Fall and spring
This first field-based course requires students complete 200 hours in a community social service agency under supervision of a professional social worker along with a weekly seminar. Students apply and integrate generalist social work knowledge and skill from the curriculum, and begin to demonstrate required competencies/practice behaviors for professional practice. Course restricted to Social Work majors accepted into program and consent of Field Director.

SWK 407 Social Welfare Policy (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Grade of C or better in SWK 105 and SWK 203.
Co-requisites: SWK 303, SWK 304 and SWK 305.
Taught: Fall only
Framework for analyzing social welfare benefits, beneficiaries, service delivery strategies, and financing from the perspective of various choices evolving in social welfare planning; evaluation of programs and services. Course restricted to Social Work majors accepted into the program.

SWK 408 Field Instruction II (5 credits)
Hours: 5 classroom + 0 lab/studio
Prerequisites: Grade of C or better in SWK 406 is required.
Taught: Fall and spring
Continuation of field placement and additional 200 hours in a community social service agency. Application to advanced knowledge and skill in social work interventions. Participation in weekly seminar. Course restricted to Social Work majors accepted into program and consent of Field Director.

SWK 411 Social Work and The Law: Part I (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
The interrelationship of social work and the law; understanding the court system; testifying in court; legal services for low income people; legal regulation of social work practice; implications of significant issues involving the social worker.

SWK 450 Multicultural Issues (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
This is an upper-level undergraduate course focusing on multicultural awareness. Students are specifically encouraged to interact with those culturally different from themselves.

SWK 454 Multicultural Family Experiences (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Prerequisites: Instructor permission.
The purpose of this course is for the learner to begin the process of understanding diverse family experiences. The interactions between individuals and their family members are understood within their environmental and cultural context. Finally, students will learn to develop interventions with the families as participants instead of clients.

SWK 455 Multicultural Family Experiences (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
The value and ethical dimensions of social work practice, and the responsibilities of individual professional practitioners must be viewed within the context of society’s responsibility for the well-being of all its members. This course pays particular attention to situations in which social workers face ethical dilemmas in promoting client and family well-being, and decision-making. Through the activities and assignments of this course, students are prepared to understand the role of ethics in the profession of social work and the ethical decision making process. Particular attention is paid to the intersection between ethics and advocacy.

SWK 459 Independent Study (1-6 credits)
Hours: 1-6 classroom + 0 lab/studio
Prerequisites: Instructor permission.
Taught: Variable, check with department
Individual readings, research, or field-based course developed by the student in consultation with instructor and approved by department chair prior to registration. May be repeated for additional credit up to a total of 6 semester hours.

SWK 501 Child Abuse (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Historical and contemporary perspectives; etiology, assessment, and intervention, differential and complementary roles of professions; approaches to prevention and treatment.

SWK 505 Introduction to Child Maltreatment (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Course designed to provide a comprehensive introduction to child abuse and neglect from a social work perspective. This course is the first of two specific course requirements for the child welfare certification available through Northern Kentucky University and the Department for Community Bases Services (DCBS).

SWK 516 Child Welfare 2: Interventions (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Acceptance into social work program and PCWCP project.
Taught: Spring only
Course is second requirement for the Public Welfare Certification. Students will learn about
various practice skills and treatment interventions related to social work with abused/neglected children and their families. Students will have several opportunities to develop their own skills through a variety of teaching methods.

SWK 520 Services to Women (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Impact of the feminist movement on the delivery of services and the development of assertiveness training, peer counseling, and self-help.

SWK 525 Substance Use and Abuse (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Various categories of drugs; treatment and rehabilitation programs; ways of developing and implementing drug education programs.

SWK 555 Compassion, Empathy and Forgiveness (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
This is an upper-level undergraduate or graduate on-line course focusing on the meanings of compassion, empathy and forgiveness and the relationship of these concepts to social justice issues.

SWK 566 Crisis Intervention (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
This introductory course is designed to train students in the theories related to providing crisis intervention to a variety of client populations and the skills needed to provide proficient crisis intervention. Techniques/skills are based on the most up-to-date evidence informed practice.

SWK 567 Mental Health Assessment (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Declared Social Work major or Graduate standing or consent of department.
Taught: Fall only
This course employs a Competency-Based Assessment model of evaluating and treating people with mental health issues. This course is designed for the Bachelor's level and Graduate level student to better understand mental health diagnoses. This course will not qualify students to make mental health diagnoses.

SWK 568 Family-Directed Structural Therapy (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Declared Social Work major or Graduate standing or consent of department.
Taught: Variable, check with department
This course introduces students to the theoretical origins and evolution of Family-Directed Structural Therapy. Students are challenged to think critically about approaching families as a guide rather than expert. Students will receive training in the use of Family-Directed Structural Assessment Tools, both as an initial intervention and ongoing intervention tool.

SWK 571 Photography as a Social Change Agent (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Declared Social Work major or Graduate standing or consent of department.
Taught: Winter Only
This course examines social problems through photography and storytelling. Photovoice is a participatory action research method that allows individuals to express their views and concerns from a contextual and cultural viewpoint. This course is experiential in nature; students will identify, research, and explore social problems and concerns from the perspectives of those impacted by such issues.

SWK 572 Forensic Social Work (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Declared Social Work major or Graduate standing or consent of department.
Taught: Variable, check with department
This course provides an overview of forensic social work practice and theory. It illustrates skills for working with diverse populations and settings, such as community, medical, school, child welfare, mental health/addictions, and juvenile/criminal justice settings. The course focuses on theoretical frameworks relevant to client populations affected by legal issues.

SWK 573 Mental Health and Ethnic Minorities (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Declared Social Work major or Graduate standing or consent of department.
Taught: Variable, check with department
This course is designed to give the student an introduction to the prevalence, incidences, and manifestation of mental health disorders among ethnic minority groups.

SWK 594 Topics: Issues in Social Welfare (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Variable, check with department
A specific aspect of social welfare practice or social welfare concern. See Schedule of Classes for current offerings and prerequisites. Repeatable for up to 12 credit hours.

Theatre Courses (TAR)

TAR 100 Theatre Appreciation - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
Survey of the development and practice of theatre through the study of theatre history, dramatic literature, practitioners, live performance and basic components of theatre.

TAR 102H Race, Gender, and Theatre - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only
Survey of the development and practice of theatre through the study of theatre history, dramatic literature, practitioners, live performance, and basic components of theatre.

TAR 504 Introduction to NKU Theatre and Dance (1 credit)
Hours: 1 classroom + 0 lab/studio
Taught: Fall only
An introduction to Theatre and Dance at Northern Kentucky University. Exploration of the different disciplines of theatre and dance available at NKU, as well as career possibilities, in performance, dance, and production. Required of all TAR and DAN majors and minors.

TAR 110 Acting I (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Basic principles and techniques.
TAR 111 Creative Expression - OC (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
Development and understanding of the oral communication process through the theory and practice of theatrical acting; utilizing the acting process as a communication tool, aide in improving oral communication skills, idea and message development, effective delivery of ideas.

General education credit: Culture and Creativity

TAR 114 Voice Development for the Actor I (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Speech development as related to theatre; elimination of regional accents; introductory work with the International Phonetic Alphabet.

TAR 118 Stage Make Up (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
Basic techniques and principles of stage makeup for the stage.

TAR 120 Musical Skills for the Musical Theatre (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Introduction to basic reading and understanding of musical concepts specific to vocalists; strong focus on the unique demands of the musical theatre.

TAR 160 Stagecraft (2 credits)
Hours: 2 classroom + 0 lab/studio
Co-requisites: TAR 160L.
Taught: Fall and spring
Basic elements of scenery construction or basic sewing skills for theatrical costumes overview of theatrical production emphasizing practical application.

TAR 160L Stagecraft Laboratory (1 credit)
Hours: 0 classroom + 2-4 lab/studio
Co-requisites: TAR 160.
Taught: Fall and spring
Practical application of elements acquired in TAR 160.

TAR 165 Comparative Arts - AH (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
A comparative study of the evolution of historical and period styles. Students will study an overview of the evolution of furniture, décor, painting, music and clothing. This evolution will be studied within the historical context that helped shape design within the era.

General education credit: Culture and Creativity

TAR 201 Acting II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 110.
Taught: Fall and spring
Additional development of acting techniques and perceptions; greater emphasis on scene work and character development.

TAR 211 Special Topics in Theatre (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Variable, check with department
Introduction to specialized theatre areas of study. May be repeated up to 9 hours.

TAR 213 Stage Combat (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 110.
Taught: Variable, check with department
Introduction to stage combat; hand fighting, quarterstaff, broadsword, and rapier and dagger; the stage fight in various periods and styles of dramatic literature.

TAR 225 Musical Theatre Performance I (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Introduction to performance techniques; synthesis of voice, acting, and movement; beginning vocal technique as applied to musical theatre repertoire.

TAR 230 Musical Skills for Musical Theatre Actors II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 130.
Taught: Spring only
Continuation of TAR 130 dealing with more advanced challenges in musical theatre repertoire.

TAR 235 Vocal Techniques for the Actor I (1 credit)
Hours: 1 classroom + 0 lab/studio
Taught: Fall only
Private instruction focusing on viable methods for healthy musical theatre singing. May be repeated for credit (Musical Theatre B.F.A. students must repeat for credit).

TAR 245 Introduction to Theatre in World Cultures (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Through the reading and analyzing of scripts and other texts, learners will be encouraged to recognize and analyze ethical issues and actions while examining the socio-political, economic and historical conditions from which diversity both emerges and converges.

TAR 260 Lighting Fundamentals (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 160.
Taught: Fall only-even years
Practical exploration of the scientific principles and theories and practices of stage lighting, including electricity, optics, color theory, dimming and control systems.

TAR 262 Costume Construction (2 credits)
Hours: 2 classroom + 0 lab/studio
Co-requisites: TAR 262L.
Taught: Fall only
Basic principles of costume building with opportunities for practical application in preparing costumes for university productions.

TAR 262L Costume Construction Laboratory (1 credit)
Hours: 0 classroom + 2-4 lab/studio
Co-requisites: TAR 262.
Taught: Fall only
Practical application of skills and techniques acquired in TAR 262.

TAR 265 Fundamentals of Theatrical Design (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only-odd years
Basic elements of design for theatre scenery, props, costumes, sound, and lighting; principles of aesthetics, script analysis, methods of research, development of visual concepts, graphic representations, and final evaluations.

TAR 277 Fundamentals of Sound Technology (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 160.
Taught: Fall only-even years
Sound reinforcement and sound production for the theatre; basic acoustics, audio components, terminology, recording/assembly techniques, and digital technology; skills necessary to mix sound and to troubleshoot sound systems.

TAR 310 Acting III (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 210.
Taught: Spring only
Advanced acting techniques and considerations; detailed scene analysis and repertory building.

TAR 311 Auditions (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: At least two acting/ dance courses.
Taught: Variable, check with department
Specialized techniques necessary for actors to relate to the auditioning experience; building an appropriate repertory of material, preparing the resume, and developing the "persona."
TAR 312 Voice Development for the Actor II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 114.
Taught: Spring only
Advanced speech development techniques and exercises as applied in performance situations; advanced work in Oral Interpretation and Readers Theatre.

TAR 314 Stage Dialects (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 114, TAR 312 and TAR 110.
Taught: Variable, check with department
Methods of producing convincing accents and dialects as an element of vocal characterization. Dialects studied may include: Standard British, Irish, Scottish, Cockney, French, German, American Southern, New York, and New England.

TAR 316 Acting Seminar I (3 credits)
Hours: 2 classroom + 4 lab/studio
Prerequisites: TAR 310.
Taught: Variable, check with department
Advanced acting coaching and repertory building; scene analysis and character work in relatively small groups for advanced students who have completed preliminary acting training. May be repeated for credit.

TAR 325 Musical Theatre Performance II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 225.
Taught: Spring only
Development of musical theatre repertoire for audition, study, and performance; synthesis of voice, acting, and movement; various musical theatre genres and historical styles.

TAR 335 Vocal Techniques for the Singing Actor II (1 credit)
Hours: 1 classroom + 0 lab/studio
Taught: Spring only
Continuation of TAR 235 with a focus on expansion of repertoire and styles. May be repeated for credit. (Musical Theater B.F.A. must repeat for credit).

TAR 340 Playscript Analysis (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
Systems of interpretation applicable to all types of dramatic literature necessary to production of plays and relevant for directors, actors, designers, and other practitioners.

TAR 343 Costume History (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 100 or TAR 101, and TAR 160 or consent of instructor.
Taught: Fall only-odd years
Costume history from antiquity through the modern period as applied to production design; methods and courses of research for design in theatre.

TAR 346 Theatre History (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Development of the theatre from its beginnings to the present. Study of theatre arts and cultural institutions with a focus on historical context for plays and performances.

TAR 347 Dramatic Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
A study of the art of dramatic writing that examines representative world theatre texts, along with their cultural and historic context.

TAR 348 Theatre History and Society (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or equivalent.
Taught: Variable, check with department
Survey of major historical developments in theatre and dramatic literature from pre-Greek times to the 20th century. Focus is placed on how society, culture and politics influence theatre production and vice versa. Does not satisfy degree requirements for theatre majors or minors. Available for registered Organizational Leadership majors only.

TAR 355 Musical Theatre Literature I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101.
Taught: Variable, check with department
American musical theatre literature from late 19th century to mid-20th century; musical and dramatic movements that created American musical theatre.

TAR 356 Musical Theatre Literature II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 160 and TAR 265.
Taught: Fall only-even years
Principles of design related to stage scenery; historical modes of stage design; 20th century stage decoration.

TAR 360 Scene Design I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 160 and TAR 265.
Taught: Fall only-even years
Design skills and building techniques involved in props and effects for the stage.

TAR 361 Design and Construction of Stage Properties (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 160 and TAR 265.
Taught: Fall only-odd years
Methods of producing convincing accents and dialects as an element of vocal characterization. Dialects studied may include: Standard British, Irish, Scottish, Cockney, French, German, American Southern, New York, and New England.

TAR 363 Lighting Design (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 260.
Taught: Fall only-even years
A lecture/project course exploring art and science of theatrical lighting design. Projects teach students the mechanics and creative processes and theories used in creating lighting designs for the theatre.

TAR 364 Computer Graphics for the Stage (3 credits)
Hours: 2 classroom + 1 lab/studio
Prerequisites: TAR 160.
Taught: Spring only-odd yrs
Introduction to commonly used graphic and rendering programs. Exploration of projections, projectors and their use in theatre productions.

TAR 365 Costume Crafts (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 260 and TAR 265.
Taught: Variable, check with department
A lecture/project course exploring art and science of theatrical lighting design. Projects teach students the mechanics and creative processes and theories used in creating lighting designs for the theatre.

TAR 366 Costume Design I (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 368 or consent of instructor; TAR 265. TAR 343 recommended.
Taught: Fall only-even years
Application of principles of design to stage costume; fabrics, figure drawing, and characterization.

TAR 367 Stagecraft II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 160.
Taught: Variable, check with department
Advanced techniques and practices used in the construction and application of stage scenery. Topics include budgeting, welding, theatre machinery and equipment, shop organization, and advanced construction techniques.

TAR 368 Theatrical Rendering and Model Building (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 160.
Taught: Variable, check with department
Techniques employed in sketching and preparing drawings for scenic and costume designs and in constructing models for scenic design.
TAR 370 Directing (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 110 and TAR 160.
Taught: Fall only
Basic principles of play directing, play selection, casting, and rehearsal; direction and presentation of selected scenes in class.

TAR 371 Theatre Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 160.
Taught: Spring only
Duties and responsibilities of those entrusted with areas like house management, public relations, and publicity in theatre activities.

TAR 376 Stage Management (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 160.
Taught: Fall only
Duties and responsibilities of the theatrical stage manager.

TAR 377 Sound Design (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 227 and TAR 265.
Taught: Fall only-odd years
Design and aesthetic concerns, design process and techniques; playscript analysis, artistic and aesthetic choices, integrating music collaborative process; developing a common dialogue with the director and design team; sound graphics and design documentation including signal flow and system design.

TAR 380 Playwriting (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall only
Art and craft of writing dramatic material for stage presentation.

TAR 390 Production Credits (1 credit)
Hours: 0 classroom + 2-4 lab/studio
Prerequisites: TAR 160.
Taught: Fall, spring, and summer
Preparing for participation in college dramatic activities. May be repeated for a maximum of eight semester hours, all of which must be earned through active technical involvement of performances.

TAR 391 Production Credits (1 credit)
Hours: 0 classroom + 2-4 lab/studio
Prerequisites: TAR 160.
Taught: Fall, spring, and summer
Preparing for participation in college dramatic activities. May be repeated for a maximum of eight semester hours, all of which must be earned through active technical involvement of performances.

TAR 400 Theatre in World Cultures Styles Studio (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Theatre is a potent political and cultural vehicle for conveying the multifaceted perspectives of various minority groups in the Americas and the world. Through the analyzing, and performing of scripts and texts, learners will begin to recognize/analyze ethical issues while examining the socio-political, economic and historical conditions from which diversity emerges.

TAR 410 Styles of Acting (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 310.
Taught: Variable, check with department
Major acting styles; practical application through presentation and evaluation of representative sciences and excerpted materials.

TAR 411 Special Problems: Theatre Acting (3-9 credits)
Hours: 3-9 classroom + 0 lab/studio
Prerequisites: TAR 310.
Taught: Variable, check with department
Opportunity for additional advanced work in the theatre student’s area of concentration; multiple opportunities for performing artist’s involvement in electives in specific areas of interest.

TAR 412 Internship: Professional Theatre (3-6 credits)
Hours: 3-6 classroom + 0 lab/studio
Prerequisites: Permission of the chair of theatre.
Taught: Fall and spring
Opportunities for outstanding students in theatre to accept apprenticeships carrying significant responsibilities in major professional theatre operations. The work will be coordinated with a theatre faculty adviser.

TAR 413 Oral Interpretation of Literature (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 114.
Taught: Variable, check with department
Principles of Oral Interpretation and Readers Theatre styles with focus upon techniques and exercises as applied in a variety of performance situations.

TAR 414 NKU Tour Group (1-3 credits)
Hours: 0 classroom + 2-6 lab/studio
Prerequisites: Audition.
Taught: Fall and spring
Touring performance troupes designed to represent the University in functions around the state and region. May be repeated for credit.

TAR 415 One Person Show (3 credits)
Hours: 1 classroom + 3 lab/studio
Prerequisites: TAR 310 or consent of instructor.
Taught: Variable, check with department
An introduction to the genre of the one-person show. The course covers the various forms of monodrama. Students will create an outline for a full-length solo show and write and present an excerpt from it in performance.

TAR 416 Acting Seminar II (2-6 credits)
Hours: 2 classroom + 4 lab/studio
Prerequisites: TAR 310.
Taught: Variable, check with department
Advanced acting coaching and repertory building. Small group work for advanced students who have completed preliminary acting training. May be repeated for credit.

TAR 417 Acting Shakespeare (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 310 or consent of instructor.
Taught: Fall only-odd years
Basic techniques for performing Shakespeare; practical application through ongoing scene work culminating in a one-person presentation of material from Shakespeare’s plays and sonnets.

TAR 418 Process and Production (4 credits)
Hours: 4 classroom + 0 lab/studio
Prerequisites: TAR 110 and TAR 210 and TAR 310 and consent of instructor.
Taught: Variable, check with department
Rehearsal and presentation of a play for an audience within the framework of a laboratory/studio environment. Various rehearsal methods are explored, along with an in-depth examination of the play’s literary, historical, and performance background. May be repeated for a maximum of 8 hours.

TAR 425 Musical Theatre Performance III (2-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 325 and consent of instructor.
Taught: Variable, check with department
Continuation of TAR 325; advanced techniques in specific areas of musical theatre performance including topical revue, auditioning, solo shows, and musical scenes.

TAR 441 Special Problems in Theatre and Criticism (3 credits)
Hours: 1 classroom + 3 lab/studio
Prerequisites: Two TAR Group III courses or consent of instructor.
Taught: Variable, check with department
See TAR 411.
COURSE DESCRIPTIONS 349

TAR 442 Dramatic Theory and Criticism (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
Major documents in dramatic theory and criticism from Plato and Aristotle to the present.

TAR 443 History of Costume and Décor II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 343 or consent of instructor.
Taught: Variable, check with department
Architectural, interior design, costume, and furniture history from Rococo through contemporary as applied to production design; methods and sources of research for design in theatre.

TAR 446 History of the Theatre and Dramatic Literature II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 346 and TAR 347.
Taught: Fall only
History of significant developments in theatre and dramatic literature from 1875 to present day.

TAR 452 Special Problems: Theatre Literature (3-9 credits)
Hours: 3-9 classroom + 0 lab/studio
Taught: Variable, check with department
Opportunity for additional advanced work in the theatre student’s area of concentration; multiple opportunities for performing artist’s involvement in electives in specific areas of interest.

TAR 455 Musical Theatre Literature II (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
American musical theatre literature from mid-20th century to the present.

TAR 461 Scene Painting (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 160 or consent of instructor.
Taught: Variable, check with department
Practical analysis and application of scene painting skills; materials (paints, dyes, fabrics and equipment.

TAR 464 Special Problems in Theatre Technology (3-9 credits)
Hours: 3-9 classroom + 0 lab/studio
Prerequisites: Two TAR Group IV courses or consent of instructor.
Taught: Variable, check with department
Opportunity for additional advanced work in the theatre student’s area of concentration; multiple opportunities for performing artist’s involvement in electives in specific areas of interest.

TAR 466 Costume Construction II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 262 or consent of instructor.
Taught: Variable, check with department
Advance costume construction techniques, including pattern drafting, cutting, draping; practical application in preparation for university productions.

TAR 470 Directing II (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: TAR 370.
Taught: Variable, check with department
Advance principles of directing; history of directing; problems encountered in directing period plays.

TAR 471 Summer Dinner Theatre (3 credits)
Hours: 0 classroom + 3 lab/studio
Prerequisites: Permission of the chair of theatre.
Taught: Summer only
Active participation in major roles, both in performance and technology and in production of a university summer stock theatre operation. May be repeated for credit.

TAR 477 The Business of Theatre (1 credit)
Hours: 1 classroom + 0 lab/studio
Prerequisites: Senior status or junior status and consent of instructor.
Taught: Spring only
Practical problems of working in the theatre; resume, union affiliation, use of theatrical agents, and additional professional training.

TAR 481 Special Problems in Theatre: Playwriting/Criticism (3-9 credits)
Hours: 3-9 classroom + 0 lab/studio
Prerequisites: BFA status.
Taught: Variable, check with department
Opportunity for additional advanced work in student’s area of concentration; multiple opportunities for performing artist’s involvement in electives in specific areas of interest.

TAR 482 Screenwriting (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 and ENG 291, or ENG 151H; TAR 340 recommended.
Taught: Spring only
Introduction to the elements of film script production and techniques involved in writing for the screen. Same as ENG 431.

TAR 490 Production Credits (1 credit)
Hours: 0 classroom + 2-4 lab/studio
Prerequisites: TAR 160.
Taught: Fall, spring, and summer
Preparing for participation in college dramatic activities. May be repeated for a maximum of eight semester hours, all of which must be earned through active technical involvement of performances.

TAR 491 Production Credits (1 credit)
Hours: 0 classroom + 2-4 lab/studio
Prerequisites: TAR 160.
Taught: Fall, spring, and summer
Preparing for participation in college dramatic activities. May be repeated for a maximum of eight semester hours, all of which must be earned through active technical involvement of performances.

TAR 495 Senior Project (1 credit)
Hours: 0 classroom + 2-4 lab/studio
Prerequisites: Senior BFA status.
Taught: Fall and spring
Individual senior project in theatre required for BFA students. Projects authorized, supervised, and graded by individually appointed faculty. Written agreement between student and faculty member must be submitted to chair before registration.

TAR 496 Theatre In World Cultures Capstone (2-4 credits)
Hours: 0 classroom + 2-4 lab/studio
Prerequisites: TAR 245, TAR 348, TAR 400 and completed one study abroad course.
Taught: Variable, check with department
The World Cultures and Theatre Capstone experience allows students to explore an independent project under the close supervision of a faculty member. The project may take many forms, from a research paper to a creative project. The Capstone project should reflect intellectual rigor and a serious pursuit of excellence.

TAR 498 Individual Studies in Theatre (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
Individual creative or research projects in one or more areas: playwriting, directing, acting, dance, stagecraft, scene design, costume design, lighting design, sound design, or theory/criticism. Projects directed by TAR faculty must be approved prior to registration. A maximum of 6 semester hours of individual studies may be applied toward a major in theater arts.

TAR 499 Individual Studies in Theatre (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
Individual creative or research projects in one or more areas: playwriting, directing, acting, dance, stagecraft, scene design, costume design, lighting design, sound design, or theory/criticism. Projects directed by TAR faculty must be approved prior to registration. A maximum of 6 semester hours of individual studies may be applied toward a major in theater arts.
establishment of learning communities within the University.

UNV 101 Orientation to College and Beyond (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Freshman standing or department approval.
Taught: Fall and spring
Emphasis on transition into college and development of college survival skills, development of student self-reliance as an active participant in classroom activities, familiarization with available university resources and establishment of learning communities within the University.

UNVI 101 International Orientation (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Department consent.
Taught: Fall and spring
Emphasis on transition into college and development of college survival skills, development of student self-reliance as an active participant in classroom activities, familiarization with available university resources and

University Programs Courses (UNV)

UNV 101 Orientation to College and Beyond (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Freshman standing or department approval.
Taught: Fall and spring
Emphasis on transition into college and development of college survival skills, development of student self-reliance as an active participant in classroom activities, familiarization with available university resources and establishment of learning communities within the University.

UNVI 101 International Orientation (1-3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Department consent.
Taught: Fall and spring
Emphasis on transition into college and development of college survival skills, development of student self-reliance as an active participant in classroom activities, familiarization with available university resources and
WGS 388 African-American Women’s History and Culture (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Spring only-even yrs
Discussion-oriented course examines African-American women and their cultures.

WGS 394 Topics in WGS (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Interdisciplinary study of a specific topic in women’s or gender studies. May be repeated for credit when subjects differ. See Schedule of Classes for current topic.

WGS 444 History of Women in the United States to 1900 (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
Women’s role in U.S. economic, social, political, and cultural development until 1900; participation of women in historical eras from earliest societies through industrialization as experienced in diverse ways depending on racial, ethnic, class, and regional differences.

WGS 445 History of Women in the US after 1900 (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: HIS 103.
Taught: Fall only-even yrs
Women’s role in U.S. economic, social, political, and cultural development since 1900; participation of women in recent history as experienced in diverse ways depending on racial, ethnic, class, and regional differences.

WGS 494 Gendered Experiential Learning (3 credits)
Hours: 3 classroom + 0 lab/studio
Prerequisites: Completion of one WGS course.
Taught: Spring only-odd yrs
Real-world experiential credit with public, private, non-profit organization or business partners under the direction of a WGS faculty member. Experiences may also include study abroad and study away. May be repeated for credit when subjects differ.

WGS 499 Independent Study: Women’s and Gender Studies (1-3 credits)
Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Completion of one women’s and gender studies course.
Taught: Variable, check with department
Individual creative research, or community service projects directed by faculty members. Written agreement between faculty member and student must be submitted to director before registration; elements of agreement to include purpose, objectives, and evaluation procedures. May be taken twice for credit.

WGS 594 Capstone Topics in Womens & Gender Studies (3 credits)
Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Advanced interdisciplinary study of a specific topic or issue. May be repeated for credit when subjects differ. See Schedule of Classes for current topic.

World Languages Courses (WLL)

WLL 400 World Languages Program Assessment (0 credits)
Hours: 0 classroom + 0 lab/studio
Prerequisites: Senior standing and permission of department chair.
Taught: Spring only-odd yrs
Required of all world language majors including students pursuing teacher certification in a world language. Assessment procedures and activities are scheduled during the last semester of residence or of graduation. Graded pass/fail.
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Government and Community Relations
Joseph E. Wind, Vice President for Government and Community Relations

Inclusive Excellence
Kathleen Roberts, Senior Advisor to the President for Inclusive Excellence

Institutional Effectiveness
Sue Hodges Moore, Senior Vice President for Institutional Effectiveness
Vickie Natalie, Executive Director for Planning and Performance and Institutional Research

Intercollegiate Athletics
Ken Bothof, Director
Kurt Moeller, Senior Associate Athletic Director, External Operations
Dan McVay, Senior Associate Director, Business and Finance

Legal Affairs and General Counsel
Sara L. Sidebottom, Vice President for Legal Affairs and General Counsel
Sara B. Kelley, Associate General Counsel
Larry Meyer, Director, Financial and Operational Auditing
Dawn Bell-Gardiner, Compliance Officer, Compliance and Institutional Ethics

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Kimberley Turner, Vice President for Student Affairs (interim)
Dannie Moore, Senior Associate Dean for Student Inclusiveness
Ryan Padgett, Assistant Vice President for Student Success and Assessment

University Advancement
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Julie Dials, Assistant Vice President for Development and Alumni Relations
Kelly Martin, Assistant Vice President for Marketing and Communications
Karen Zerhusen Krue, Executive Director for NKU Foundation Administration

Leslie Fields, Associate Director for Compliance and Student-Athlete Services/SA
Chris Hafling, Associate Director for Operations and Event Management
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Bertog, Janet L., Professor, Geology (2003); Ph.D., University of Cincinnati, 2002; MS, South Dakota School of Mines, 1997; BS, South Dakota School of Mines, 1995.

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D’Souza, Rodney, Associate Professor, Management (2008); Ph.D., University of Louisville, 2009; MBA, Northern Kentucky University, 2003; MS, University Of Pune, 2001; BA, University Of Pune, 1999.

D’Souza, Rodney, Associate Professor, Management (2008); Ph.D., University of Louisville, 2009; MBA, Northern Kentucky University, 2003; MS, University Of Pune, 2001; BA, University Of Pune, 1999.

D’Souza, Rodney, Associate Professor, Management (2008); Ph.D., University of Louisville, 2009; MBA, Northern Kentucky University, 2003; MS, University Of Pune, 2001; BA, University Of Pune, 1999.

D’Souza, Rodney, Associate Professor, Management (2008); Ph.D., University of Louisville, 2009; MBA, Northern Kentucky University, 2003; MS, University Of Pune, 2001; BA, University Of Pune, 1999.

D’Souza, Rodney, Associate Professor, Management (2008); Ph.D., University of Louisville, 2009; MBA, Northern Kentucky University, 2003; MS, University Of Pune, 2001; BA, University Of Pune, 1999.

D’Souza, Rodney, Associate Professor, Management (2008); Ph.D., University of Louisville, 2009; MBA, Northern Kentucky University, 2003; MS, University Of Pune, 2001; BA, University Of Pune, 1999.

D’Souza, Rodney, Associate Professor, Management (2008); Ph.D., University of Louisville, 2009; MBA, Northern Kentucky University, 2003; MS, University Of Pune, 2001; BA, University Of Pune, 1999.

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D’Souza, Rodney, Associate Professor, Management (2008); Ph.D., University of Louisville, 2009; MBA, Northern Kentucky University, 2003; MS, University Of Pune, 2001; BA, University Of Pune, 1999.

D’Souza, Rodney, Associate Professor, Management (2008); Ph.D., University of Louisville, 2009; MBA, Northern Kentucky University, 2003; MS, University Of Pune, 2001; BA, University Of Pune, 1999.

D’Souza, Rodney, Associate Professor, Management (2008); Ph.D., University of Louisville, 2009; MBA, Northern Kentucky University, 2003; MS, University Of Pune, 2001; BA, University Of Pune, 1999.

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D’Souza, Rodney, Associate Professor, Management (2008); Ph.D., University of Louisville, 2009; MBA, Northern Kentucky University, 2003; MS, University Of Pune, 2001; BA, University Of Pune, 1999.

D’Souza, Rodney, Associate Professor, Management (2008); Ph.D., University of Louisville, 2009; MBA, Northern Kentucky University, 2003; MS, University Of Pune, 2001; BA, University Of Pune, 1999.
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Schellhas, Hans, Associate Professor, Art (2006); M.Des., University of Cincinnati, 2007; BA, Northern Kentucky University, 2002; BS, Xavier University, 1996.
Schleyer, Marilyn A., Associate Professor, Nursing (2005); Ph.D., Union Institute & University, 1999; MA, University of Cincinnati, 1994; MSN, University of Cincinnati, 1984; BSN, College Of Mount St. Joseph, 1974.

Schlipp, John C., Associate Professor, Library Science (2006); MLS, University of Kentucky, 2000; BA, University of Dayton, 1982.

Schultheis, Patrick J., Professor, Biology (1999); Ph.D., University of Cincinnati, 1994; MS, University of Dayton, 1986; BS, University of Dayton, 1984.

Schultz, Lois E., Professor, Library Science (1978); MBA, Xavier University, 1983; MLS, University of Kentucky, 1974.

Schumacher, Patricia F., Lecturer, English (1983); MA, University of Cincinnati, 1986; BA, Northern Kentucky University, 1977.

Schwarz, Kirsten, Assistant Professor, Biology (2012); Ph.D., Rutgers State University, 2010; BA, Other US Colleges, 2000.

Scola, Michael P., Lecturer, Biology (2003); DPM, Ohio College of Podiatric Medicine, 1988; BS, Xavier University, 1984.

Sharp, Jennifer, Assistant Professor, Counseling & Human Services (2012); Ph.D., Pennsylvania State Univ-Penn State, 2012; MA, Ohio State University, 2011; BA, Denison University, 2002.

Shaw, Doris M., Associate Professor, Marketing (2002); Ph.D., Kent State University, 2000; MBA, Baldwin-Wallace College, 1983.

Shaw, Ronald A., Associate Professor, Theatre (1988); MFA, Northwestern University, 1987; MA, Bowling Green State University, 1982; BA, Heidelberg College, 1980.


Shelley, Jill A., Lecturer, Criminal Justice (1996); MS, University of Cincinnati, 1990; BS, University of Cincinnati, 1980.

Sheng, Chenliang, Professor, English (1989); Ph.D., University of Maryland-College Park, 1989; MA, University of Maryland-College Park, 1984; BA, Anhui University, 1984.

Sherry, Tammie L., Assistant Professor, Education (2004); Ed.D., University of Cincinnati, 2010; M.Ed., Northern Kentucky University, 2000; BA, Northern Kentucky University, 1993.

Shifley, Emily, Assistant Professor (2014); Ph.D., Ohio State University, 2009; BS, Ohio University, 2003.

Sieve, Bradley J., Lecturer, Chemistry (2005); Ph.D., Michigan State University, 2002; BA, Coe College, 1998.

Sigler, Tracey H., Associate Professor, Management (2001); Ph.D., University of North Carolina, 1997; MBA, Bowling Green State University, 1991; BBA, Bowling Green State University, 1985.

Singleton, David A., Associate Professor, Law and Legal Studies (2011); JD, Harvard University, 1991.

Sisson, Patricia A., Lecturer II, Statistics (2003); MS, Bowling Green State University, 1992; BS, Bowling Green State University, 1989.

Slawter, Karen P., Senior Lecturer, Communication (1983); MA, Northern Kentucky University, 1982; BA, Eastern Kentucky University, 1970.

Smith, Dempsy C., Lecturer, Mathematics (1983); MA, University of South Florida, 1988; BS, University of Florida, 1983.

Smith, Donna B., Associate Professor, Library Science (1987); MLS, University of Kentucky, 1993; BS, Northern Kentucky University, 1983.

Smith, Ernest, Professor, English (2009); Ph.D., New York University, 1987; MA, Wright State University, 1980; BA, Wright State University, 1978.

Smith, Jeffrey M., Professor, Psychology (1988); Ph.D., Colorado State University, 1988; MS, Colorado State University, 1986; BA, Bemidji State University, 1983.

Smith, Jennifer S., Professor, Library Science (1983); Ph.D., Ohio State University, 2002; M.Ed., Wright State University, 1991; MLS, Case Western Reserve University, 1981; BM, University of Cincinnati, 1980.

Smith, Lynn W., Assistant Professor, Nursing (2010); M.Div., Lexington Theological Seminary, 2003; MSN, University of Cincinnati, 1988; BSN, University of Tennessee-Knoxville, 1977; Ed.D., Northern Kentucky University; Ed.D., Walden University.

Smith, Lynne A., Professor, Education (1988); Ed.D., University of Kentucky, 1988; MS, University of Tennessee-Knoxville, 1979; BS, University of Tennessee-Knoxville, 1973.

Snyder, Robert A., Professor, Management (1981); Ph.D., University of Maryland-College Park, 1976; MA, University of Maryland-College Park, 1972.

Soliday, Paige, Associate Professor, English (1992); Ph.D., University of Wisconsin Colleges, 1993; MA, University of Wisconsin Colleges, 1986; BA, University of Iowa, 1983.

Spataro, Sandra E., Associate Professor, Management (2011); Ph.D., University of California-Berkeley, 2000; MA, Stanford University, 1998; BA, Stanford University, 1988.

St. Amand, Gerard A., Professor, Law and Legal Studies (1999); JD, Boston College, 1974.

Standen, Jeffrey, Professor, Law and Legal Studies (2013); JD, University of Virginia, 1996.

Stavsky, Mark M., Professor, Law and Legal Studies (1980); LLM, New York University, 1982; JD, Depaul University, 1976; BA, Northwestern University, 1973.

Stephens JR, Henry L., Professor, Law and Legal Studies (1979); JD, University of Kentucky, 1975.

Stevens, Damon, Lecturer, Theatre (2012); DMA, University of Cincinnati, 2007; MM, University of Cincinnati, 1996; BM, Arizona State University, 1992.


Strobel, Christopher L., Associate Professor, Electronic Media (2002); MA, The American College, 1996; BS, Indiana State University, 1990.

Su, Qing, Associate Professor, Economics (2009); Ph.D., University of South Florida, 2006; MA, University of South Florida, 2002; BS, Dongbei University of Finance and Economics, 1993.

Sullivan, Laura A., Associate Professor, Library Science (1984); MA, University of Cincinnati, 1986; MLS, Indiana University, 1981; BA, University of Cincinnati, 1980.

Sunderhaus, Patricia L., Lecturer, Nursing (2012); Ed.D., Argosy University, 2011; MSN, Ball State University, 2005; BSN, College Of Mount St. Joseph, 1999.

Swayne, Cheryl L., Associate Professor, Nursing (1988); Ed.D., Northern Kentucky University, 2013; MSN, University of California-Los Angeles, 1985; BSN, Eastern Kentucky University, 1980.

Tagher, Catherine, Assistant Professor, Nursing (2005); Ed.D., Northern Kentucky University, 2014; MSN, University of Kentucky, 2001; BSN, University of Kentucky, 1997.

Tanzman, Jamie, Lecturer (2011); MA, Nazareth College of Rochester, 2003; BA, University of Maryland, 2001.

Tapp, Karen S., Associate Professor, Social Work (2006); JD, Salmon P Chase College of Law, 1985; MSW, University of Tennessee-Knoxville, 1976; BSW, University of Kentucky, 1974.

Taylor, Ann M., Senior Lecturer, Communication (1998); Ph.D., Union Institute & University, 1989;

Taylor, Jessica A., Assistant Professor (2012); Ph.D., University of Alabama, 2012; MSW, University of Alabama, 2007; BSW, University of Alabama, 2005.

Tenkotte, Paul, Professor, History (2009); Ph.D., University of Cincinnati, 1989; MA, University of Cincinnati, 1983.

Teschendorf, Michelle, Lecturer, Nursing (2013); BSN, Missouri Western State University, 1996; Ph.D., Saint Louis University.

Theuri, Peter M., Professor, Accounting (1999); DBA, Mississippi State University, 1999; MBA, University Of Central Oklahoma, 1989; BS, Oakwood College, 1986.

Thomas JR, James H., Professor, Psychology (1975); Ph.D., University of Virginia, 1976; MA, University of Virginia, 1969; BA, Stetson University, 1967.

Thomas, Jonathan N., Associate Professor, Education (2010); Ed.D., University of Cincinnati, 2010; M.Ed., University of Cincinnati, 2006; BA, University of Kentucky, 2003.

Thompson, John C., Professor, Finance (2005); DBA, University of Kentucky, 1990; MBA, Youngstown State University, 1983; BA, Westminster College, 1976.

Thompson, E. David D., Associate Professor, Biology (2005); Ph.D., University of Kentucky, 2002; BS, University of Kentucky, 1995.

Thomson, David S., Associate Professor, Electronic Media (1983); MA, University of Cincinnati, 1971; BM, University of Cincinnati, 1967.

Tokson, Matthew, Assistant Professor; JD, University of Chicago, 2008.

Torres, Mauricio, Assistant Professor, Engineering Technology (2013); Ph.D., Florida International University, 2011; MS, Florida International University, 2006.

Tosolt, Brandelyn, Associate Professor, Education (2008); Ph.D., Oakland University, 2008; MA, University of Michigan-Ann Arbor, 2003; BA, Michigan State University, 2000.

Truta, Traian M., Associate Professor, Computer Science (2004); Ph.D., Wayne State University, 2004; MS, Babes-Bolyai University, 1999; BS, Babes-Bolyai University, 1998.

Turkelson, Sandra L., Associate Professor, Nursing (2001); MSN, University of Kentucky, 1985; BSN, University of Cincinnati, 1982.

Underwood, Jane L., Assistant Professor, Law and Legal Studies (2012); JD, University of Akron, 1980; MLS, Kent State University, 1980; AB, Ohio University, 1977.

Valandra, Rodney, Lecturer, Counseling & Human Services (2011); MA, Xavier University, 2004; BA, Northern Kentucky University, 2001; Ph.D., University of Kentucky.

Valauri, John T., Professor, Law and Legal Studies (1982); JD, Harvard University, 1975.

Van Loveren Geis, Candice N., Lecturer, Art Education (2006); MA, University of Cincinnati, 2004; BFA, University of Cincinnati, 2002.

Vance-Eliany, Sharon A., Associate Professor, History (2006); Ph.D., University of Pennsylvania, 2005; BA, University of California-Berkeley, 1990.

Vest, Jason, Associate Professor (2014); DMA, University of Kentucky, 2008; MM, Brigham Young University, 2005; BM, Butler University, 2002.


Vogelpohl, Rachele, Assistant Professor, Athletic Training (2011); Ph.D., University of Hawaii-Manoa, 2011; MS, University of Hawaii-Manoa, 2009; BS, Northern Kentucky University, 2006.


Votuba, James C., Professor, Educational Leadership (1997); Ph.D., Michigan State University, 1974; MA, Michigan State University, 1970; BA, Michigan State University, 1968.


Wakefield, Monica L., Assistant Professor, Anthropology (2013); Ph.D., Yale University, 2010; BS, Humboldt State University, 1998.

Walden, James W., Associate Professor, Computer Science (2005); Ph.D., Carnegie Mellon University, 1997; MS, Carnegie Mellon University, 1994; BS, Miami University Oxford, 1992.

Walker, Stephen C., Professor, Education (1988); Ed.D., Ball State University, 1987; MAED, University of Evansville, 1980; BS, Ball State University, 1973.


Walters, Keith A., Associate Professor, Chemistry (2002); Ph.D., University of Florida, 2000; BS, Furman University, 1996.

Walters, Lindsey A., Assistant Professor, Biology (2010); Ph.D., Michigan State University, 2008; BS, Calvin College, 2003.

Walton, Gary, Associate Professor, English (1987); Ph.D., George Washington University, 1991; M.Phil., George Washington University, 1985; MS, University Of South Dakota, 1982; BA, Northern Kentucky University, 1981.

Wang, Hongmei, Associate Professor, Computer Science (2007); Ph.D., Pennsylvania State Univ-Penn State, 2007; MS, Chinese Academy of Science, 1997; BS, Changchun College of Geology, 1994.

Ward, Jeffrey A., Associate Professor, Computer Science (2014); Ph.D., Ohio State University, 2004; MS, Ohio State University, 1988; BS, Northern Kentucky University, 1984.

Wasburn-Moses, Jered, Lecturer, Mathematics (2010); MS, Purdue University, 2000; BS, Purdue University, 1998.


Watkins, Andrea S., Associate Professor, History (2002); Ph.D., University of Kentucky, 1999; MA, University of Kentucky, 1993; BA, University of Kentucky, 1991.

Weaver, Rosa L., Lecturer, Educational Leadership (1999); Ed.D., University of Kentucky, 1997; M.Ed., Xavier University, 1972; BS, University of Cincinnati, 1969.

Webster, Jennifer H., Lecturer II, Political Science (2003); Ph.D., University Of Cincinnati, 2012; MS, University Of Cincinnati, 2002; BA, East Tennessee State University, 2001.

Weir (Baranowski), Kimberly A., Associate Professor, Political Science (2003); Ph.D., University of Connecticut, 2003; MA, Villanova University, 1998; BA, Bloomsburg University of Pennsylvania, 1995.

Weisenbach Keller, Eileen D., Associate Professor, Entrepreneurship (2006); Ph.D., Kent State University, 2005; MBA, University of Chicago, 1992; BS, Indiana University, 1983.
Weiss, Steven M., Professor, Communication (1994); Ph.D., Temple University, 1980; MA, Temple University, 1977; BA, Temple University, 1976.

Wells, Gail W., Professor, Educational Leadership (1980); Ed.D., University of Cincinnati, 1981.

Wells, Michael D., Lecturer, Library Science (2013); MLS, Kent State University, 2010; BA, Capital University, 2007.

Wermeling, Linda, Associate Professor, Social Work (2003); Ph.D., University of Kentucky, 2006; MSW, University of Kentucky, 1995.

Wesley, Threasa L., Associate Professor, Library Science (1981); MLS, University of Kentucky, 1979; BA, Western Kentucky University, 1977.

Whiteman, Michael, Professor, Law and Legal Studies (2002); MLS, Simmons College, 1995; JD, University of Louisiana, 1994.

Whitson, Mary K., Associate Professor, Biology (2003); Ph.D., Duke University, 2001; BS, University of Florida, 1994.

Wideman, Paige, Lecturer II, Art (1999); MFA, University of Cincinnati, 1999; BFA, Kansas City Art Institute, 1989.

Wiebe, Harold D., Associate Professor, Engineering Technology (1993); MS, University of Cincinnati, 1986.

Wilkey, Christopher L., Associate Professor, English (2003); Ph.D., Wayne State University, 2003; MA, University of Dayton, 1996; BA, Northern Arizona University, 1993.

Wilkinson, Steven V., Professor, Mathematics (1989); Ph.D., Rice University, 1984; BA, University of Tulsa, 1979.

Williams, Diane M., Lecturer, Mathematics (1992); MS, Case Western Reserve University, 1983; MS, Rensselaer Polytechnic Institute, 1975; BA, Millersville University of Pennsylvania, 1974.

Williams, Jeffrey C., Professor, History (1972); Ph.D., University Of Edinburgh, 1972; BA, University of California-Berkeley, 1966.

Wirtz, Paul J., Associate Professor, Educational Leadership (2005); Ph.D., George Peabody College, 1976; MS, University of Wisconsin Colleges, 1972; BA, Marquette University, 1969.

Wood, Wendy, Associate Professor, Library Science (1988); MLS, Emporia State University, 1988; BA, University of Kansas, 1980.

Wroughton, Jacqueline, Associate Professor, Statistics (2008); Ph.D., University of Nebraska At Lincoln, 2007; MS, University of Nebraska At Lincoln, 2004; BA, Concordia University, 2002; BS, Concordia University, 2002.

Yannarella I, Philip A., Associate Professor, Library Science (1977); MLS, University of Michigan-Ann Arbor, 1970; MA, Duquesne University, 1967; BA, Youngstown State University, 1984.

Yates, Justin R., Assistant Professor, Psychology (2012); Ph.D., University of Kentucky, 2014; MS, University of Kentucky, 2011; BS, Georgia College & State University, 2008.


Yohe, Kristine A., Associate Professor, English (1997); Ph.D., University of North Carolina, 1997; MA, University of North Carolina, 1988; BA, Emory University, 1984.

Yuan, Jiawei, Assistant Professor, Ph.D., University of Arkansas-Little Rock.

Yunghbluth, Stephen C., Associate Professor, Communication (2004); Ph.D., University of Kentucky, 2003; MA, University of Kentucky, 1996; BA, Xavier University, 1994.

Yzenbaard, Caryl A., Professor, Law and Legal Studies (1975); JD, University of Michigan-Ann Arbor, 1970.

Zacate, Matthew O., Associate Professor, Physics (2004); Ph.D., Oregon State University, 1997; MS, Oregon State University, 1993; BS, Truman State University, 1991.

Zachary, Samuel J., Professor, Theatre (1990); Ph.D., Bowling Green State University, 1984; MA, Bowling Green State University, 1973; BS, Bloomsburg University of Pennsylvania, 1971.

Zai III, Robert L., Associate Professor, Library Science (2008); MLS, University of Kentucky, 2002; BA, Northern Kentucky University, 1999; Ph.D., University of Kentucky.

Zarnowski, Roger, Professor, Mathematics (2013); Ph.D., Indiana University-Bloomington, 1988.

Zeman, Nicholas B., Assistant Professor, Media Informatics (2011); MS, University of Kentucky, 1997; BA, Auburn University - Auburn, 1995.

Zembront, Isabella M., Lecturer, Psychology (1995); MS, Northern Kentucky University, 2011; MS, University of Kentucky, 1980; BS, Northern Kentucky University, 1978.

Zhang, Xiaoni, Professor, Business Informatics (2001); Ph.D., University Of North Texas, 2001; MBA, Huron University, 1996; BS, Heibei University Handan College, 1987.

Zimmerman, Jeffrey M., Assistant Professor (2012); Ph.D., University of Klagenfurt, 2011; MBA, University of Klagenfurt, 2009; BA, Miami University Oxford, 2004; BS, Miami University Oxford, 2004.

Zunnurhain, Kazi, Assistant Professor Ph.D., University of Alabama - Tuscaloosa, 2014; MS, University of Alabama - Tuscaloosa, 2011.

Zyromski, Brett E., Associate Professor, Counseling & Human Services (2010); Ph.D., North Carolina State University-Raleigh, 2007; MTh, Houston Graduate School of Theology, 2001; MA, University of North Carolina.
EMERITUS FACULTY

Susan S. Adams, English, 22 years of service
Michael C. C. Adams, History, 25 years of service
Carol B. Alfred, Law Library, 19 years of service
Valeria Amburgey, Education, 17 years of service
Barry Andersen, Art, 35 years of service
Margaret Anderson, Nursing, 18 years of service
Marjorie E. Arter, Education, 11 years of service
Carole Beere, Psychology, 12 years of service
David Bishop, Teacher Education, 37 years of service
Judith Blackburn, English, 24 years of service
Leon E. Bootha, History, 21 years of service
Mildred Bork, Nursing, 19 years of service
Stephen Boyd, Communication, 37 years of service
Bart Braden, Statistics, 29 years of service
Robert M. Bratton, Law, 22 years of service
Prince Brown, Jr., Sociology and African American Studies, 15 years of service
Rachelle Bruno, Education, 33 years of service
Mary Jeremy Buckman, Nursing, 9 years of service
Margaret Cantrell, Education, 30 years of service
Jerry H. Carpenter, Biology, 34 years of service
K. Kenneth Carter, Education, 30 years of service
Tom Cate, Economics, 38 years of service
Helen Annette Chavez, Education, 21 years of service
Joy Churchill, Nursing, 21 years of service
James C. Claypool, History, 32 years of service
Donald K. Cobb, Education, 20 years of service
Thomas E. Comte, Management, 13 years of service
Paul Cooper, Construction Management
Mary Cupito, Communication
Yudhister Datta, Accounting, 27 years of service
Sarah H. Dessner, Nursing, 16 years of service
Larry L. Dickson, English, 30 years of service
Frank H. Dietrich II, Statistics, 29 years of service
Patricia A. Dolan, Social Work, 26 years of service
Linda L. Dolive, Political Science, 38 years of service
Sudesh Duggal, Business Informatics, 30 years of service
Gina Foletta, Mathematics, 19 years of service
J. Ronald Gardella, Education, 24 years of service
Mary Gers, Nursing, 16 years of service
Martin G. Giesbrecht, Economics, 11 years of service
Larry A. Giesmann, Biology, 37 years of service
George D. Goedel, Psychology, 27 years of service
Edward P. Goggin, Law, 26 years of service
W. Jonathan Gresham, Music, 26 years of service
W. Jack Grosse, Law, 28 years of service
Gayle Sheard Grout, Music, 35 years of service
LeRoy Gruner, Sociology
Carolyn Hagner, Music
Charles Hawkins, Physics, 33 years of service
Clinton Hewan, Political Science, Criminal Justice and Organizational Leadership, 25 years of service
W. Vernon Hicks, Jr., Chemistry, 37 years of service
David Hogan, Psychology, 36 years of service
William L. Holloway, Management
James F. Hopgood, Anthropology, 30 years of service
MaryCarol Hopkins, Anthropology, 43 years of service
Barbara Houghton, Art, 20 years of service
Martin J. Huelsmann, Law, 34 years of service
Sally Jacobson, English, 26 years of service
Margo Jang, English, 35 years of service
Elaine Jarchow, Education, 7 years of service
William R. Jones, Law
Thomas J. Kearns, Mathematics and Statistics, 32 years of service
Donald R. Kelm, Art History, 23 years of service
Robert J. Kempton, Chemistry, 24 years of service
James W. Kinne, Industrial Education & Technology
Michael Klembara, Mathematics and Statistics, 35 years of service
Philip Koplow, Music, 27 years of service
Vinay Kumar, Chemistry, 38 years of service
Robert Langenderfer, Respiratory Care, 24 years of service
Lynn Langmeyer, Marketing, 21 years of service
William M. Lindsay, Management, 32 years of service
Nan Littleton, Social Work, 31 years of service
Ann Schmidt Luggen, Nursing, 16 years of service
Nancy Dysart Martin, Music, 30 years of service
Rosetta J. Mauldin, Social Work and Human Services, 17 years of service
Camilla M. Mazanec, Law, 28 years of service
Cynthia R. McDaniel, Psychology, 30 years of service
James E. McKenney, Statistics, 30 years of service
William M. McKim, Jr., English, 30 years of service
Michael R. McPherson, Physics, 30 years of service
Roger C. Meade, Education, 29 years of service
Nicholas Melnick, Education, 26 years of service
Janet A. Miller, Education, 24 years of service
Peter E. Moore, Mathematics and Statistics
Frances T. Mosser, Nursing, 26 years of service
Robert Mullen, Communication, 31 years of service
James H. Niewahner, Chemistry, 40 years of service
Ralph D. O’Brien, Technology, 24 years of service
Linda Olasov, Education, 24 years of service
William R. Oliver, Chemistry, 31 years of service
L. MacKenzie Osborne, English, 39 years of service
David Payne, History, 33 years of service
Charles Pinder, Technology, 10 years of service
Joseph E. Price, English
Thomas C. Rambo, Biology, 34 years of service
Rhode, Robert T., English, 34 years of service
Jerald H. Richards, Philosophy, 31 years of service
W. Michael Ryan, History, 28 years of service
Peter Schiff, English, 35 years of service
Phillip H. Schmidt, Mathematics and Statistics, 8 years of service
Fredrick Schneider, Law
Vincent G. Schulte, Psychology, 27 years of service
Gary D. Scott, Business Informatics, 33 years of service
Robert L. Seaver, Law, 24 years of service
Linda J. Sheffield, Education, 25 years of service
Sheng, Chenliang, English, 24 years of service
David Short, Law, 13 years of service
Raman J. Singh, Geology, 26 years of service
Joe K. Smith, Mathematics
Suzanne Wegener Sol, Education, 7 years of service
Christine B. Stiegler, Construction Management, 28 years of service
William C. Stoll, Psychology
Ralph A. Tesseneer, Psychology
Louis R. Thomas, History, 17 years of service
Michael L. Turney, Communication, 36 years of service
Kathleen S. Verderber, Management
Robert C. Vitz, History, 36 years of service
Ray N. Waggoner, Education, 10 years of service
William S. Wagner, Physics, 22 years of service
Jerry W. Warner, Biology, 30 years of service
Edwin T. Weiss, Jr., Geography, 30 years of service
Donald R. Welti, Psychology
John O. Westlund, Music
Constance Carroll Widmer, Education, 24 years of service
Marian C. Winner, Library Services, 9 years of service
Kristen R. Yount, Sociology, 18 years of service
Tom Zaniello, English, 37 years of service
Rosella C. Zeiser, Nursing, 27 years of service
Advanced Placement (AP)

High school students may receive credit by earning the required score on an approved AP examination. An appropriate number of semester hours will be awarded, and a grade of pass (P) will be assigned for successful completion of approved courses. Information concerning the AP program may be obtained from a high school counselor. Official AP scores should be sent to NKU’s Office of Admissions (Lucas Administrative Center 400). Additional information on regulations and approved NKU programs for AP credit may be obtained from the Office of Admissions. Examination scores range from 1 to 5. Subject areas in which a student may receive credit from NKU by earning acceptable scores are listed below.

Credit for those areas marked by an asterisk (*) must be coordinated with the chair of the relevant department.

<table>
<thead>
<tr>
<th>DISCIPLINE</th>
<th>ACCEPTABLE SCORE</th>
<th>COURSE</th>
<th>SEMESTER HOURS</th>
</tr>
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<tr>
<td>Art, General</td>
<td>3, 4, 5</td>
<td>ART 100 Art Appreciation</td>
<td>3</td>
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<tr>
<td>Art, Drawing</td>
<td>3, 4, 5</td>
<td>ART 131 Basic Drawing</td>
<td>3</td>
</tr>
<tr>
<td>Art, Studio 2D</td>
<td>3, 4, 5</td>
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<tr>
<td>Art, Studio 3D</td>
<td>3, 4, 5</td>
<td>ART 133 3-Dimensional Studies/Visual Art</td>
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</tr>
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<td>3, 4, 5</td>
<td>ARTH 101 Survey of Western Art I AND ARTH 102 Survey of Western Art II</td>
<td>3</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>3</td>
<td>BIO 120 Understanding the Living World</td>
<td>4</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>4, 5</td>
<td>BIO 150/BIO 150L Introduction to Biology I with laboratory OR BIO 120/BIO 120L Understanding the Living World</td>
<td>4</td>
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<tr>
<td>Calculus AB*</td>
<td>3</td>
<td>MAT 128 Calculus A – OR – MAT 112 Applied Calculus</td>
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<tr>
<td>Calculus AB*</td>
<td>4, 5</td>
<td>MAT 129 Calculus I</td>
<td>4</td>
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<tr>
<td>Calculus BC*</td>
<td>3</td>
<td>MAT 129 Calculus I</td>
<td>4</td>
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<tr>
<td>Calculus BC*</td>
<td>4, 5</td>
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<td>5</td>
</tr>
<tr>
<td>Chemistry*</td>
<td>3</td>
<td>CHE 120/CHE 120L General Chemistry I with laboratory</td>
<td>4</td>
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<tr>
<td>Chemistry*</td>
<td>4, 5</td>
<td>CHE 120/CHE 120L General Chemistry I with laboratory AND CHE 121/CHE 121L General Chemistry II with laboratory</td>
<td>4</td>
</tr>
<tr>
<td>Chinese Language and Culture</td>
<td>3</td>
<td>CHI 201 Intermediate Chinese I Students who continue their language study at NKU can receive credit for CHI 101 Elementary Chinese I and CHI 102 Elementary Chinese II by completing CHI 202 Intermediate Chinese II and receiving a grade of C- or better</td>
<td>3</td>
</tr>
<tr>
<td>Chinese Language and Culture</td>
<td>4, 5</td>
<td>CHI 202 Intermediate Chinese II</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science A</td>
<td>3, 4, 5</td>
<td>CSC 260/CSC 260L Object-Oriented Programming I with Laboratory</td>
<td>3</td>
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<tr>
<td>English Language/Composition</td>
<td>3</td>
<td>ENG 101 College Writing</td>
<td>3</td>
</tr>
<tr>
<td>English Language/Composition</td>
<td>4, 5</td>
<td>ENG 101 College Writing AND ENG 291 Advanced College Writing</td>
<td>3</td>
</tr>
<tr>
<td>English Literature/Composition</td>
<td>3, 4, 5</td>
<td>ENG 200 Understanding Literature</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>3, 4, 5</td>
<td>ENV 110 Introduction to Environmental Science and Issues</td>
<td>3</td>
</tr>
<tr>
<td>European History</td>
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<td>HIS 100 History of Europe to 1713 AND HIS 101 History of Europe, 1713 to the Present</td>
<td>3</td>
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<tr>
<td>French Language and Culture</td>
<td>3</td>
<td>FRE 201 Intermediate French I Students who continue their language study at NKU can receive credit for FRE 101 Elementary French I and FRE 102 Elementary French II by completing FRE 202 Intermediate French II and receiving a grade of C- or better</td>
<td>3</td>
</tr>
<tr>
<td>French Language and Culture</td>
<td>4</td>
<td>FRE 202 Intermediate French II Students who continue their language study at NKU can receive credit for FRE 101 Elementary French I, FRE 102 Elementary French II, and FRE 201 Intermediate French I by completing a FRE 300-level course with a grade of C- or better</td>
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<tr>
<td>French Language and Culture</td>
<td>5</td>
<td>FRE 304 French Composition and Conversation Students who continue their language study at NKU can receive credit for FRE 101 Elementary French I, FRE 102 Elementary French II, FRE 201 Intermediate French I, and FRE 202 Intermediate French II by completing a 300-level course or higher with a grade of C- or better</td>
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</tr>
<tr>
<td>Course Area</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>German Language and Culture</td>
<td>GER 201</td>
<td>Intermediate German I</td>
<td>3</td>
</tr>
<tr>
<td>German Language and Culture</td>
<td>GER 202</td>
<td>Intermediate German II</td>
<td>4</td>
</tr>
<tr>
<td>German Language and Culture</td>
<td>GER 304</td>
<td>German Composition and Conversation</td>
<td>5</td>
</tr>
<tr>
<td>Government and Politics – U.S.</td>
<td>PSC 100</td>
<td>American Politics</td>
<td>3</td>
</tr>
<tr>
<td>Government and Politics – Comp.</td>
<td>PSC 102</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>Human Geography</td>
<td>GEO 100</td>
<td>Global Viewpoints: Geography and the Human Landscape</td>
<td>3</td>
</tr>
<tr>
<td>Italian Language and Culture</td>
<td>ITA 201</td>
<td>Intermediate Italian I</td>
<td>3</td>
</tr>
<tr>
<td>Italian Language and Culture</td>
<td>ITA 202</td>
<td>Intermediate Italian II</td>
<td>3</td>
</tr>
<tr>
<td>Japanese Language and Culture</td>
<td>JPN 201</td>
<td>Intermediate Japanese I</td>
<td>3</td>
</tr>
<tr>
<td>Japanese Language and Culture</td>
<td>JPN 202</td>
<td>Intermediate Japanese II</td>
<td>4</td>
</tr>
<tr>
<td>Latin: Virgil</td>
<td>LAT 101</td>
<td>Elementary Latin I</td>
<td>3</td>
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<tr>
<td>Macroeconomics</td>
<td>ECO 200</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Microeconomics</td>
<td>ECO 201</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Music</td>
<td>MUS 122</td>
<td>Music Theory I AND MUS 124 Aural Skills I AND MUS 125 Aural Skills II</td>
<td>4</td>
</tr>
<tr>
<td>Physics 1</td>
<td>PHY 211</td>
<td>General Physics with Laboratory I</td>
<td>5</td>
</tr>
<tr>
<td>Physics 2</td>
<td>PHY 213</td>
<td>General Physics with Laboratory II</td>
<td>5</td>
</tr>
<tr>
<td>Physics B</td>
<td>PHY 110</td>
<td>Introduction to Physics with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>Physics B</td>
<td>PHY 211</td>
<td>General Physics with Laboratory I</td>
<td>5</td>
</tr>
<tr>
<td>Physics B</td>
<td>PHY 212</td>
<td>General Physics with Laboratory I</td>
<td>4</td>
</tr>
<tr>
<td>Physics C Mechanical</td>
<td>PHY 211</td>
<td>General Physics with Laboratory I</td>
<td>5</td>
</tr>
<tr>
<td>Physics C Electrical/Magnetism</td>
<td>PHY 220</td>
<td>University Physics with Laboratory I</td>
<td>4</td>
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<tr>
<td>Psychology</td>
<td>PSY 100</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Spanish Language</td>
<td>SPI 201</td>
<td>Intermediate Spanish I</td>
<td>3</td>
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<tr>
<td>Spanish Language</td>
<td>SPI 202</td>
<td>Intermediate Spanish II</td>
<td>4</td>
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<tr>
<td>Spanish Language</td>
<td>SPI 304</td>
<td>Spanish Composition and Conversation</td>
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<tr>
<td>Spanish Literature</td>
<td>SPI 201</td>
<td>Intermediate Spanish I</td>
<td>3</td>
</tr>
</tbody>
</table>
101 Elementary Spanish I and SPI 102 Elementary Spanish II by completing SPI 202 Intermediate Spanish II and receiving a grade of C- or better

Spanish Literature 4
SPI 202 Intermediate Spanish II
Students who continue their language study at NKU can receive credit for SPI 101 Elementary Spanish I, SPI 102 Elementary Spanish II, and SPI 201 Intermediate Spanish I by completing a SPI 300-level course with a grade of C- or better.

3

Spanish Literature 5
SPI 304 Spanish Composition and Conversation
Students who continue their language study at NKU can receive credit for SPI 101 Elementary Spanish I, SPI 102 Elementary Spanish II, SPI 201 Intermediate Spanish I, and SPI 202 Intermediate Spanish II by completing a 300-level course or higher with a grade of C- or better.

Statistics 3, 4, 5
STA 212 Statistics for Business Applications I
OR
STA 205 Introduction to Statistical Methods
OR
STA 113 Introduction to Probability and Statistics

3

U.S. History 3, 4, 5
HIS 102 History of U.S. through 1877
AND
HIS 103 History of U.S. since 1877

3

World History 3, 4, 5
HIS 108 World History to 1500
AND
HIS 109 World History since 1500

3

**College Level Examination Program (CLEP)**

CLEP, a national program of credit by examination administered by the College Board, was adopted at NKU to provide individuals with an opportunity to earn credit by examination. The Office of Testing Services at NKU is a recognized CLEP testing center and provides information about the tests as well as administering them. A grade of pass (P) will be assigned for the successful passage of a CLEP examination. Students are urged to consult their advisors before registering for CLEP exams.

The chart below shows, for each CLEP exam accepted by NKU, the minimum score, the semester credit hours earned with that score, and the equivalent NKU courses. NKU requires submission of an official score report. (The university reserves the right to revise these listings in accord with recommendations from the American Council on Education). Check the university’s testing website (http://testing.nku.edu) for updates.

<table>
<thead>
<tr>
<th>EXAMINATION</th>
<th>MINIMUM SCORE</th>
<th>EQUIVALENT NKU COURSES</th>
<th>SEMESTER CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Government</td>
<td>50</td>
<td>PSC 100 American Politics</td>
<td>3</td>
</tr>
<tr>
<td>American Literature</td>
<td>50</td>
<td>ENG 208 Survey of American Literature I AND ENG 209 Survey of American Literature II</td>
<td>6</td>
</tr>
<tr>
<td>Analyzing and Interpreting Literature</td>
<td>50</td>
<td>ENG 200 Understanding Literature</td>
<td>3</td>
</tr>
<tr>
<td>Calculus</td>
<td>50</td>
<td>MAT 129 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>College Composition (English Composition with Essay)</td>
<td>50</td>
<td>ENG 101 College Writing</td>
<td>3</td>
</tr>
<tr>
<td>College Algebra</td>
<td>50</td>
<td>MAT 109 Algebra for College Students</td>
<td>3</td>
</tr>
<tr>
<td>College Mathematics</td>
<td>50</td>
<td>MAT 100G Elective Credit</td>
<td>3</td>
</tr>
<tr>
<td>Biology</td>
<td>50</td>
<td>BIO 120/BIO 120L Understanding the Living World with Lab</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry (no lab credit awarded)</td>
<td>50</td>
<td>CHE 120 General Chemistry I AND CHE 121 General Chemistry II</td>
<td>6</td>
</tr>
<tr>
<td>English Literature</td>
<td>50</td>
<td>ENG 202 Survey of British Literature I AND ENG 203 Survey of British Literature II</td>
<td>6</td>
</tr>
<tr>
<td>Financial Accounting</td>
<td>50</td>
<td>ACC 200 Principles of Accounting I -- Financial</td>
<td>3</td>
</tr>
<tr>
<td>French Language</td>
<td>50 - 58</td>
<td>FRE 101 Elementary French I AND FRE 102 Elementary French II</td>
<td>6</td>
</tr>
<tr>
<td>German Language</td>
<td>50 - 59</td>
<td>GER 101 Elementary German I AND GER 102 Elementary German II</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>60+</td>
<td>GER 101 Elementary German I AND GER 102 Elementary German II AND GER 201 Intermediate German I AND GER 202 Intermediate German II</td>
<td>12</td>
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<tr>
<td>Human Growth and Development</td>
<td>50</td>
<td>EDU 300 Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>Department</td>
<td>Course</td>
<td>Semester Hours</td>
<td></td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-------------------------</td>
<td>----------------</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>GCC 100G - Elective Credit</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Information Systems and Computer Applications</td>
<td>BIS 300T - Elective Transfer Credit</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Introductory Business Law</td>
<td>BUS 230 Legal Environment</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Introductory Psychology</td>
<td>PSY 100 Introduction to Psychology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Introductory Sociology</td>
<td>SOC 100 Introduction to Sociology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Natural Science</td>
<td>SCI 100G - General Education Credit (no lab)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Pre-Calculus</td>
<td>MAT 119 Pre-Calculus Mathematics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Principles of Macroeconomics</td>
<td>ECO 200 Principles of Macroeconomics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Principles of Management</td>
<td>MGT 205 Business Management Principles</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Principles of Microeconomics</td>
<td>ECO 201 Principles of Microeconomics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Science-History</td>
<td>SSSI 100G - Elective Credit</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Spanish Language</td>
<td>SPI 101 Elementary Spanish I AND</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPI 102 Elementary Spanish II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>U.S. History I: Early Colonization to 1877</td>
<td>HIS 102 History of the United States through 1877</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>U.S. History II: 1865 to Present</td>
<td>HIS 103 History of the United States since 1877</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Western Civilization I: Ancient to 1648</td>
<td>HIS 100 History of Europe to 1713</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Western Civilization II: 1648 to Present</td>
<td>HIS 101 History of Europe, 1713 to the Present</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**DSST Examinations**

The DSST credit-by-examination program, recommended by the American Council on Education, is a form of prior-learning assessment that gives students the opportunity to receive college credit as a result of their test scores. The Office of Testing Services at NKU is a recognized DSST testing center and provides information about the tests as well as administers them. A grade of pass (P) will be assigned for the successful passage of a DSST examination. Students are urged to consult their advisors before registering for DSST exams. NKU requires submission of an official score report. Check the university’s testing website (http://testing.nku.edu) for updates. (The university reserves the right to revise these listings in accord with recommendations from the American Council on Education).

<table>
<thead>
<tr>
<th>EXAMINATION</th>
<th>MINIMUM SCORE</th>
<th>EQUIVALENT NKU COURSES</th>
<th>SEMESTER HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A History of the Vietnam War</td>
<td>49</td>
<td>HIS 565 The Vietnam War</td>
<td>3</td>
</tr>
<tr>
<td>Astronomy</td>
<td>48</td>
<td>AST 100G (This credit goes toward a student’s elective credit and can satisfy a general education natural science requirement. It will not substitute a course.)</td>
<td>3</td>
</tr>
<tr>
<td>Art of the Western World</td>
<td>48+ Departmental Essay</td>
<td>ARTH 101 Survey of Western Art</td>
<td>3</td>
</tr>
<tr>
<td>The Civil War and Reconstruction</td>
<td>52</td>
<td>HIS 535 Civil War and Reconstruction</td>
<td>3</td>
</tr>
<tr>
<td>Environment and Humanity</td>
<td>46</td>
<td>ENV 110 Introduction to Environmental Science and Issues</td>
<td>3</td>
</tr>
<tr>
<td>Fundamentals of College Algebra</td>
<td>400</td>
<td>MAT 100T (This credit goes toward a student’s elective credit. It will not substitute a course.)</td>
<td>3</td>
</tr>
<tr>
<td>Here’s to Your Health</td>
<td>48/400</td>
<td>BIO 125 Biological Perspective of Wellness</td>
<td>3</td>
</tr>
<tr>
<td>Human/Cultural Geography</td>
<td>54</td>
<td>GEO 100 Global Viewpoints on Geography and the Human Landscape</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Computing</td>
<td>432</td>
<td>INF 101 Computer Literacy and Informatics</td>
<td>3</td>
</tr>
<tr>
<td>Management Information Systems</td>
<td>430</td>
<td>BIS 300 Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Statistics</td>
<td>48/400</td>
<td>STA 205 Introduction to Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>Substance Abuse</td>
<td>49/400</td>
<td>HSR 340 Alcoholism: Issues and Intervention</td>
<td>3</td>
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</tbody>
</table>
Financial Industry Regulatory Authority (FINRA) Examinations

NKU students who have taken and received a passing score on a Financial Industry Regulatory Authority (FINRA) examination (as determined by the Department of Accounting, Finance, and Business Law) will receive credit for an equivalent NKU course. The chart below shows, for each FINRA exam accepted by NKU, the minimum score, the semester credit hours earned with that score, and the equivalent NKU courses.

<table>
<thead>
<tr>
<th>EXAMINATION</th>
<th>SERIES</th>
<th>PREREQUISITE</th>
<th>MINIMUM SCORE</th>
<th>EQUIVALENT NKU COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registered Options Principal (OP)</td>
<td>4</td>
<td>S7, or S62 with S42, S17, S37, or S38</td>
<td>Pass</td>
<td>FIN 305 Principles of Finance AND FIN 345 Investment and Security Analysis AND FIN 405 Derivative Securities</td>
</tr>
<tr>
<td>General Securities Representative (GS)</td>
<td>7</td>
<td>None</td>
<td>Pass</td>
<td>FIN 305 Principles of Finance AND FIN 345 Investment and Security Analysis</td>
</tr>
<tr>
<td>General Securities Sales Supervisor (Options Module FINRA-SU)</td>
<td>9</td>
<td>S7</td>
<td>Pass</td>
<td>FIN 305 Principles of Finance AND FIN 345 Investment and Security Analysis</td>
</tr>
<tr>
<td>General Securities Sales Supervisor (General Module FINRA-SU)</td>
<td>10</td>
<td>S7</td>
<td>Pass</td>
<td>FIN 305 Principles of Finance AND FIN 345 Investment and Security Analysis</td>
</tr>
<tr>
<td>General Securities Principal (GP)</td>
<td>24</td>
<td>S7, S17, S37, S38, S62, S79, or S82</td>
<td>Pass</td>
<td>FIN 305 Principles of Finance AND FIN 345 Investment and Security Analysis</td>
</tr>
<tr>
<td>Municipal Securities Principal (MP)</td>
<td>53</td>
<td>S52 or S7 (if passed prior to 11/7/11)</td>
<td>Pass</td>
<td>FIN 305 Principles of Finance AND FIN 345 Investment and Security Analysis</td>
</tr>
<tr>
<td>NASAA-Uniform Combined State Law Exam (AG and/or RA)</td>
<td>66</td>
<td>S7</td>
<td>Pass</td>
<td>FIN 305 Principles of Finance AND FIN 345 Investment and Security Analysis</td>
</tr>
<tr>
<td>Life and Health Insurance Licenses in several states</td>
<td>NA</td>
<td>NA</td>
<td>Pass</td>
<td>FIN 355 Principles of Risk Management and Insurance</td>
</tr>
</tbody>
</table>

International Baccalaureate

High school students completing this rigorous program may receive credit by earning the required score in a specific subject. An appropriate number of semester credit hours will be awarded the grade of pass (P) for successful completion of approved courses. To earn credit, the student must request that an official transcript issued by the New York office of the International Baccalaureate be sent to the Office of the Registrar. Additional information on regulations and approved NKU programs for IB credit may be obtained from the Office of the Registrar. Subject areas in which a student may receive credit from NKU by earning acceptable scores are listed below.

<table>
<thead>
<tr>
<th>DISCIPLINE</th>
<th>ACCEPTABLE SCORE</th>
<th>COURSE</th>
<th>SEMESTER CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology (Subsidiary Level) (Higher Level)</td>
<td>4</td>
<td>BIO 120 Understanding the Living World</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>BIO150/BIO 150L Introduction to Biology I with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry (Subsidiary Level) (Higher Level)</td>
<td>5 or higher</td>
<td>CHE 102 Introduction to Chemistry AND one credit of chemistry lab</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>5 or higher</td>
<td>CHE 120 General Chemistry I AND CHE 121 General Chemistry II (Credit for associated labs &quot;CHE 120L: General Chemistry Laboratory I&quot; and &quot;CHE 121L: General Chemistry Laboratory II,&quot; 1 credit each, may be awarded but will require department review of student’s lab syllabi and may require additional lab work or testing on the part of the student before credit is awarded.)</td>
<td>3</td>
</tr>
<tr>
<td>Economics (Higher Level)</td>
<td>4 or higher</td>
<td>ECO 200 Principles of Macroeconomics AND ECO 201 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>English (Higher Level)</td>
<td>4 or higher</td>
<td>ENG 101 College Writing AND ENG 291 Advanced College Writing</td>
<td>3</td>
</tr>
<tr>
<td>French (Subsidiary Level) (Higher Level)</td>
<td>4 or higher</td>
<td>FRE 101 Elementary French I AND FRE 102 Elementary French II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>4 or higher</td>
<td>FRE 101 Elementary French I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>4 or higher</td>
<td>FRE 102 Elementary French II</td>
<td>3</td>
</tr>
<tr>
<td>German (Subsidiary Level) (Higher Level)</td>
<td>4 or higher</td>
<td>GER 101 Elem. German I AND GER 102 Elem. German II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>4 or higher</td>
<td>GER 101 Elem. German I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>4 or higher</td>
<td>GER 102 Elem. German II</td>
<td>3</td>
</tr>
<tr>
<td>History (Subsidiary Level) (Higher Level)</td>
<td>4 or 5</td>
<td>HIS 100 History of Europe to 1713 (or HIS 101 History of Europe, 1713 to the Present if student has already received credit for HIS 100)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>6 or 7</td>
<td>HIS 102 History of the United States through 1877 AND</td>
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<tr>
<td>Degree Program</td>
<td>Credits</td>
<td>Requirements</td>
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<tr>
<td>------------------------</td>
<td>---------</td>
<td>------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>History-American</td>
<td>4 or 5</td>
<td>HIS 102 History of the United States through 1877 OR</td>
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<tr>
<td>(Subsidiary Level)</td>
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<td>HIS 103 History of the United States since 1877 (if student has</td>
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<tr>
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<td></td>
<td>already received credit for HIS 102)</td>
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<tr>
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<td>HIS 102 History of the United States through 1877 AND</td>
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<td>(Higher Level)</td>
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<td>HIS 103 History of the United States since 1877</td>
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<tr>
<td>Mathematics (Higher</td>
<td>4 or</td>
<td>MAT 129 Calculus I AND</td>
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<tr>
<td>Level)</td>
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<td>MAT 229 Calculus II</td>
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<tr>
<td></td>
<td></td>
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</tr>
<tr>
<td>Physics (Subsidiary</td>
<td>4 or</td>
<td>PHY 211 General Physics with Laboratory I</td>
<td></td>
</tr>
<tr>
<td>Level)</td>
<td>higher</td>
<td>PHY 211 AND</td>
<td></td>
</tr>
<tr>
<td>(Higher Level)</td>
<td>5 or</td>
<td>PHY 213 General Physics I and II with Laboratory</td>
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</tr>
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<td></td>
<td>higher</td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PHY 220 University Physics with Laboratory I</td>
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<tr>
<td></td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Psychology (Subsidiary</td>
<td>4 or</td>
<td>PSY 100 Introduction to Psychology</td>
<td></td>
</tr>
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<td>Level)</td>
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<td>PSY 100 Introduction to Psychology</td>
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<td>(Higher Level)</td>
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<td>higher</td>
<td>3</td>
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</tr>
<tr>
<td>Spanish (Subsidiary</td>
<td>4 or</td>
<td>SPI 101 Elementary Spanish I</td>
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</tr>
<tr>
<td>Level)</td>
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<td>SPI 102 Elementary Spanish II</td>
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</tr>
<tr>
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</tbody>
</table>
Below are examples of what affects the determination of a student’s residency status at NKU. This information does not substitute for the regulations that govern the determination of Kentucky residency. The regulations can be found online [here](http://lrc.ky.gov/kar/013/002/045.htm).

The state of Kentucky will assume you are NOT a resident if:

- You had an out-of-state address on your application for admission.
- You moved into Kentucky primarily to enroll in the university.
- You moved into Kentucky and within 12 months of that move you enrolled at a Kentucky institution for more than the number of hours considered half-time.
- You have been in continuous absence from the state for one year.

You can challenge your status designation by submitting a residency affidavit and presenting at least two of the following documents proving that you have:

- Accepted a full-time job or transfer to an employer in Kentucky, Greater Cincinnati, or nearby Indiana while moving your domicile into the state of Kentucky.
- Lived in Kentucky continuously as a nonstudent for 12 months before the semester in which you plan to enroll.
- Prepared an income tax form that shows the payment of Kentucky withholding taxes for the most recent calendar year.
- Obtained a professional license or certification in Kentucky.
- Paid real property taxes in Kentucky.
- Owned real property that was used by you as a resident before the date of application for determining residency.
- Married a Kentucky resident.
- Had a continued presence in Kentucky during academic breaks.
- Not relied on student financial aid in order to provide basic sustenance.

Residency affidavits can be picked up in the registrar’s office or downloaded from the residency section of the registrar’s website [here](http://registrar.nku.edu/Residency.html).

Deadlines for residency appeals:

- Fall and spring semesters: 30 days after the first day of classes.
- Summer: 10 days after the first day of classes (in the first session in which the student is enrolled).
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