

NORTHERN KENTUCKY UNIVERSITY  
UNDERGRADUATE CATALOG  
2012-2013

## 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; and university policies and procedures. 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. Questions or feedback regarding the catalog should be sent via e-mail to [catalog@nku.edu](mailto: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 Commission on Colleges of the Southern Association of Colleges and Schools to award undergraduate, graduate, doctorate, and professional degrees. The commission may be contacted for questions about accreditation at Northern Kentucky University. Its address is:

1866 Southern Lane  
Decatur, GA 30033

Its telephone number is: 404-679-4500

Its web address is: <http://sacscoc.org/>

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## Institutional Foundation

### Mission

The mission of Northern Kentucky University is to educate students to succeed in their chosen life roles; be informed, contributing members of their communities - regionally, nationally, and internationally; and pursue satisfying and fulfilling lives. The university will offer a comprehensive array of baccalaureate and master's programs as well as law and other selected doctoral programs that meet regional needs.

The university supports multi-dimensional excellence across the full breadth of its work: teaching and learning, research and creative activity, and outreach and public engagement. Northern Kentucky University fosters a community that values openness, inclusion, and respect. The university is committed to intellectual and creative freedom and to the open expression of ideas in ways that support scholarship and advance the learning process. The university embraces its regional stewardship role as reflected in its significant contribution to the intellectual, social, economic, cultural, and civic vitality of the region and the commonwealth.

Northern Kentucky University achieves its mission through outstanding faculty, state-of-the-art programs, and community partnerships. The university prides itself on its learner focus, entrepreneurial spirit, global perspective, innovative programs, small classes, technology-enhanced academic programs, co-curricular learning opportunities, and emphasis on active learning, including student research, internships, co-op programs, and service learning.

Northern Kentucky University is the commonwealth's only regional university located in a major metropolitan area. The university values its role as an integral part of the metropolitan region and recognizes the region as a powerful source of knowledge and experience that can strengthen, enhance and enrich every aspect of the university. Regional stewardship informs every dimension of the university's mission.

### Vision

Northern Kentucky University will be nationally recognized as the premier comprehensive, metropolitan university that prepares students for life and work in a global society and provides leadership to advance the intellectual, social, economic, cultural, and civic vitality of its region and of the commonwealth.

### Core Values

NKU is committed to:

- Placing learners and their learning at the center of all that we do.
- The highest standards of excellence in every dimension of our work.
- Access to education that holds high expectations for all students and provides support for their success.
- Public engagement that advances the progress of the region and commonwealth.
- Intellectual and creative freedom and the free expression of ideas.
- A culture of openness and inclusion that values diversity in people and ideas.
- A work environment that encourages and rewards innovation and creativity.
- A campus climate that supports collegiality, collaboration and civility.

### Institutional History

NKU is the newest of Kentucky's eight state universities. NKU'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 re-named Northern Community College (NCC), but an independent, four year, degree granting institution wasn't created until 1968. At that time, the governor – Louie B. Nunn – signed legislation to establish Northern

Kentucky State College (NKSC) 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 NCC location until Nunn Hall was completed. 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; the first intercollegiate game, men's basketball, was held in 1971; the first commencement ceremony held at NKSC 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 residential halls opened in 1982 marking the start of 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 to 1983. 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 1990s, NKU began to focus on its place in the region and the world. Dr. Leon Boothe, president from 1983 to 1997, 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. At the end of Dr. Boothe's presidency, enrollment stood at 11,785, and 1,584 faculty and staff served the university.

James C. Votruba became NKU's fourth president in 1997. Under his leadership, new programs have been added – including cutting-edge undergraduate programs, many more master's degree options, and two doctoral programs – as well as new facilities. Both the Student Union – a bustling center of student activity – and The Bank of Kentucky Center opened in the fall of 2008. The latter provides exciting possibilities for entertainment and athletics. The super high-tech Griffin Hall, home to one of only a handful of informatics colleges in the country, opened in 2011, making NKU a leader in the science of gathering, manipulating, storing, and retrieving information. 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. In 2012, President Votruba has 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. NKU has been recognized nationally for its success in sharing knowledge through public engagement.

### NKU Today

Today NKU is a vibrant, exciting center of teaching and learning, research and creative work, and service to the Northern Kentucky region as well as to various communities beyond the immediate area. The university has shown a consistent pattern of growth over the last 42 years, and in the fall of 2011, the university enrolled 15,738 students, of which 85 percent were undergraduates, 15 percent were graduate students (of these graduate

students, 575 were law majors). They benefit from a student-centered faculty including 547 full-time and 403 part-time faculty. Students and faculty alike benefit from the support of 1,080 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 Nursing, and Bachelor of Social Work. Undergraduate students have a choice of 60 majors and 76 minors. Campus facilities have grown significantly in recent years, and in the fall of 2011, the university opened its newest building – Griffin Hall – which houses the College of Informatics, one of the few such colleges in the country and a leader in the science of gathering, manipulating, storing, and retrieving information.

## Accreditations

NKU is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award undergraduate, graduate, doctoral, and professional degrees. For questions about this accreditation, contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30333-4097.

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); National League for Nursing Accrediting Commission (NLNAC); and Technology Accreditation Commission, ABET, Inc.

## Campus Map

NKU makes a variety of campus maps available online: a three dimensional view of the Highland Heights campus with links and information about each building; a two dimensional map of the campus; a regional map showing the location of the Highland Heights campus, NKU's Grant County Center, and NKU's METS Center; and a map giving directions to the Highland Heights campus.

## Campus Calendars

On its website, NKU provides a variety of calendars including a master calendar and several academic calendars. In addition, there are calendars of events such as athletic and music events. These calendars enable students to plan ahead for studying, social events, vacations, and so forth.



# PROGRAM OFFERINGS

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

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.

Discipline	Associate	Bachelor	Minor	Teaching Certification	Certificate
Accounting		BS*	M		
(General) Accounting					PB
Aging and Society			M		
Ancient Civilizations			M		
Anthropology		BA/BS	M		
Archaeology			M		
Art		BA/BFA	M	TC	
Art History			M		
Athletic Training		BS			
Automated Manufacturing Processes and Systems					U
Biological Sciences		BA/BS	M		
Biology				TC	
Black Studies			M		
(Pre)-Business Studies	AD <sup>P</sup>				
Business Administration		BS* <sup>P</sup>	M		
Business and Marketing Education				TC	
Business Informatics		BS* <sup>P</sup>	M		U <sup>O</sup>
Career and Technical Education		BS		TC	
Celtic Studies			M		
Chemistry		BA/BS	M	TC	
Chinese Studies			M		
Cinema Studies			M		
Civic Engagement					U
Communication Studies		BA <sup>O</sup>	M		
Computer Forensics			M		
Computer Information Technology		BS <sup>P</sup>	M		
Computer Science		BS	M		
Construction Management		BS <sup>O</sup>	M		
Construction Technology	AD				
Counseling and Human Services		BS <sup>P</sup>	M		
Creative Writing			M		
Criminal Justice	AD <sup>O</sup>	BA <sup>O</sup>	M		
Criminalistics			M		
(Interdisciplinary) Early Childhood Education		BA		TC	
Earth/Space Science				TC	
Economics		BS	M		
(Applied) Economics and Public Policy					PB
Electronic Media and Broadcasting		BA	M		
Electronics Engineering Technology		BS			

Discipline	Associate	Bachelor	Minor	Teaching Certification	Certificate
Electronics Technology			M		
Elementary Education		BA*		TC	
English		BA	M	TC	
English for Business Students			M		
Entrepreneurship		BS	M		PB <sup>o</sup>
Environmental Science		BS*			
Environmental Studies			M		
Evolutionary Studies			M		
Exercise Science		BS			
Finance		BS*	M		PB
French		BA	M	TC	
Geographic Information Systems					U
Geography		BA	M		
Geology		BA/BS	M		
German		BA	M	TC	
Graphic Design		BA/BFA			
Health Education			M	TC	
Health Science		BS <sup>o</sup>			
History		BA	M <sup>o</sup>		
Honors			M		
Human Resource Management		BS			
Industrial Technology			M		
Information Security			M		
Information Systems Development					PB
Information Systems Management					PB
Integrative Studies	AD <sup>P</sup>	BA <sup>P</sup>			
International Studies		BA	M		
Japanese Studies			M		
Journalism		BA	M		
Latin American & Caribbean Studies			M		
Library Informatics		BS <sup>o</sup>			
Management		BS*	M <sup>o</sup>		
Manufacturing Processes					U
Marketing		BS*	M		
Marketing Research					PB
Mathematical Sciences			M		
Mathematics		BS		TC	
Mechanical & Manufacturing Engineering Technology		BS			
Media Informatics		BA	M		
Medieval and Renaissance Studies			M		
Middle Eastern & North African Studies			M		
Middle Grades Education		BA*		TC	
Military History			M		
Music		BA/BM*	M	TC	
Native American Studies			M		
Neuroscience			M		
Nursing		BSN*			
Nursing: Registered Nurse to BSN		BSN* <sup>o</sup>			
Organizational Leadership		BA <sup>PO</sup>	M		U
Philosophy		BA	M		
(Applied) Philosophy			M		
Physical Education		BA*	M	TC	
Physics		BA/BS	M	TC	



Discipline	Associate	Bachelor	Minor	Teaching Certification	Certificate
Piano Pedagogy					U
Political Science		BA/BS	M		
Popular Culture			M		
Pre-Law			M		
Professional Writing			M		
Psychology		BA/BS	M		
Public Administration			M		
Public Relations		BA			
Radiologic Technology	AD*				
Religious Studies			M		
Respiratory Care	AD*				
Social Justice			M		
Social Studies				TC	
Social Work		BSW			
Sociology		BS	M		
Software					UG
Spanish		BA	M	TC	
Special Education				TC	
Sports Business		BS*			PB
Sports Medicine			M		
Stage Management		BFA			
Statistics		BS			
Technological Leadership and Innovation					U
(Advanced) Technology			M		
Theatre		BA/BFA	M		
Women's and Gender Studies			M		
World Cultures and Theatre		BA			

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

## Graduate Programs

NKU offers an array of excellent graduate programs that are particularly suited to professionals who would like to pursue graduate work to help them in their career paths. To find out more about the 20 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 859-572-1555; send them an e-mail 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 of Admissions:** Melissa Gorbandt

**Associate Director of Transfer Services:** Ava Nienaber

Northern Kentucky University invites people to apply for admission to NKU as freshmen, transfer students, readmitted students, postbaccalaureate students, international students, and non-degree students. This chapter discusses the application process for all prospective students except international students. Information for international students is provided in the next chapter.

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

## Important Admission Deadlines

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

## Deadline Definitions

### Early Action

Students interested in NKU freshman scholarship opportunities must apply by this deadline. A separate scholarship application must be submitted by the early action date.

### Priority

For freshman applicants applying for January 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). 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 later in this chapter 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 later in this chapter for information on fee waivers and fee exclusions.

### Application Evaluation

The Office of 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 COM-PASS 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 set forth by both the Kentucky Council on Postsecondary Education and NKU for admission. NKU's freshman admission standards are available online.

### Kentucky Pre-College Curriculum

The Kentucky Pre-College Curriculum (PCC) 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. Completion of the PCC is required for all applicants younger than 21 years of age with fewer than 24 transferable semester credit hours. 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:** A student with a PCC deficiency who achieved an ACT or SAT score that falls within the top 60 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:

Area	Credits
<b>English Language Arts</b> -- English I, II, III, IV, or AP English	4
<b>Mathematics</b> -- Algebra I, Algebra II, Geometry*	3
<b>Science</b> -- Biology I, Chemistry I, Physics I or life science, physical science, and earth/space sciences (at least one lab course)	3
<b>Social Studies</b> -- U.S. history, economics, government, world geography, and world civilization	3
<b>Foreign Language</b> -- Two credits in the same language or demonstrated competency	2
<b>Health</b>	1/2
<b>Physical Education</b>	1/2
<b>History and Appreciation of Visual and Performing Arts</b> -- History and appreciation of visual and performing arts or another arts course that incorporates such content	1
<b>Electives</b> -- Strongly recommended: one or more courses that develop computer literacy	5
<b>TOTAL CREDITS</b>	<b>22</b>

\*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 reading.  
**OR**
  - c. (For applicants 21 years of age or older) A minimum COMPASS score of English 74 or higher, mathematics 35 or higher, and reading 81 or higher.
3. Completion of the Kentucky Pre-College Curriculum (waived for applicants 21 years of age or older).

### 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 the Academic Advising Resource Center (AARC) as undeclared majors. AARC 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.

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 to which NKU has an articulation agreement, and successfully complete all required developmental academic work prior to applying as a transfer student.

### Admission Status - Transfer Students

Transfer applicants are prospective students who have graduated from high school and have previously attempted coursework at another regionally accredited college or university for credit (other than college credits taken while in high school).

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.

\*\*See the section on Application and Enrollment Fee Policies later in this chapter 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. Official and final high school transcript or GED scores.
5. ACT or SAT or COMPASS test scores.

\*\*See the section on Application and Enrollment Fee Policies later in this chapter for information on fee waivers and fee exclusions.

Potential transfer students **with less 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.

Fall applicants	July 1
Spring applicants	November 1
Summer applicants	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. Official and final high school transcripts or GED scores.
5. ACT or SAT or COMPASS test scores.
6. A letter of appeal.

\*\*Fee waivers are possible. See the section on Application Fee Waiver Policy later in this chapter.

### Regular Admission - Transfer Students

To be considered for regular admission, transfer applicants must have a 2.00 GPA.

### 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. 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 which are given later in 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.

### 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 needs to follow. 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 Office of Transfer Services within the Office of Admissions at 859-572-5220.

### 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 Admissions at 859-572-5220.

### 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.

Kentucky Council on Postsecondary Education College Readiness Standards	
ACT Scores (After October 1989)	College Ready Score
English	18 or higher
Mathematics	19 or higher
Reading	20 or higher
SAT Scores	College Ready Score
English	430 or higher on Writing
Mathematics	460 or higher
Reading	470 or higher
COMPASS Scores	College Ready Score
English	74 or higher
Mathematics	36 or higher
Reading	85 or higher

Non-traditional 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 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 4 years. Graduation requirements for readmitted students will change to the current year's catalog (catalog of record). Applicants for readmission should submit the following:

1. Online application form \*(<http://apply.nku.edu>).
2. \$40 nonrefundable application fee.
3. Official transcripts from each college attended since leaving NKU.

\*\*See the section on Application and Enrollment Fee Policies later in this chapter 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 later in this chapter for information on fee waivers and fee exclusions.

### School-Based Scholars Program

This program allows eligible high school students to take NKU college classes before graduating from high school. Students may take up to four classes

at their respective high school and one class at the Highland Heights campus at reduced rates. The current rate is available online <http://http://adultlearner.nku.edu/credit/schoolbasedscholars/>. Students are responsible for the program application fee, cost of textbooks, and any applicable course fees. Students taking more than four classes at their high school or more than one class at the Highland Heights campus will be charged the full applicable tuition rate. The School-Based Scholars Program is also available at the Grant County Center where students may enroll in four classes that are part of the School-Based Scholars Program, plus one class either at the Highland Heights campus or the Grant County Center.

High school students are eligible for the School-Based Scholars Program if they:

1. Have completed the sophomore year of high school at the time classes are taken.
2. 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.
3. Have earned a cumulative high school GPA of at least 3.25 on a 4.0 scale.
4. Maintain a grade of "C" or higher in each college course completed prior to high school graduation.
5. Have written permission from a high school principal or guidance counselor.
6. Have written permission from a parent or guardian (if under age 18).
7. 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 a "Permission to Re-enroll" form each subsequent semester. For applications and deadlines for each semester, interested students should see their high school guidance counselor or visit the web (<http://adultlearner.nku.edu/credit/schoolbasedscholars>).

First time applicants for the School-Based Scholars "4+1" Program students should submit the following:

1. Application for admission (<http://adultlearner.nku.edu/credit/schoolbasedscholars>) for first time applicants.
2. A \$ 40 nonrefundable application fee\*\*.
3. An official high school transcript.
4. Scores from one of the following: ACT, SAT, PSAT, or PLAN.

\*\*See the section on Application and Enrollment Fee Policies later in this chapter for information on fee waivers and fee exclusions.

To be eligible to continue in the School-Based Scholars Program, students must achieve a grade of "C" or higher in each School-Based Scholars course. Returning School-Based Scholars should submit:

1. Permission to re-enroll form.
2. An updated official high school transcript.
3. Updated ACT or SAT scores if taken or re-taken since previous submission of test scores.

School-Based Scholars wishing to apply as freshmen after high school graduation must submit a new application along with the appropriate credentials for freshman admission and pay the standard application fee.

More information about the School-Based Scholars Program is available here (<http://adultlearner.nku.edu/credit/schoolbasedscholars>). Program information is also found on Facebook and Twitter.

## 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 ones 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:

Fall	August 1
Winter or Spring	December 1
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.

Permanent residents may also be required to take placement test(s) to determine placement in English and mathematics courses at NKU. The transfer evaluation of foreign documents may require an evaluation by a foreign evaluation service and is processed in the Office of International Students and Scholars.

## Adult Student Programs

**Office:** Educational Outreach

**Location:** Campbell Hall 270

**Telephone:** 859-392-2400

**Fax:** 859-392-2416

**E-mail address:** edoutreach@nku.edu

**Web address:** <http://adultlearner.nku.edu>

**Executive Director:** Vicki Berling

**Other key personnel:**

Director of Extended Campus Initiatives: Betsy John Jennings

Associate Director of PACE and Cohort Learning: Debbie Poweleit

Associate Director of Online Learning: Kristen Lovett

Associate Director of Continuing Education: Kathy Yelton

The following 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 8-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, counseling & human services, integrative studies, and organizational leadership.

In addition to meeting university admission standards, PACE applicants must meet requirements regarding work experience. PACE applications (<http://apply.nku.edu>) are accepted year-round and are available online. Applicants should select the "PACE Student" application and "Program for Adult Centered Education" 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 e-mail ([pace@nku.edu](mailto: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 encourages former students at or approaching senior-class status (80 credits) to re-enroll and provides them with services to succeed. Prospective students can find out if they qualify for Project Graduate by calling 859-392-2400, sending an e-mail ([edoutreach@nku.edu](mailto:edoutreach@nku.edu)), or through this website: <http://adultlearner.nku.edu/projectgraduate.html>.

### Online Learning

Educational Outreach provides administrative and student-support services for 19 fully online degree programs 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 and a list of courses offered in the fully online format can both be found online. Admission criteria and application procedures for fully online programs can be obtained by calling 859-392-2400 or sending an e-mail ([nkuonline@nku.edu](mailto:nkuonline@nku.edu)).

## 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 e-mail ([edoutreach@nku.edu](mailto: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, on-site 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. More information can be obtained by sending an e-mail ([edoutreach@nku.edu](mailto:edoutreach@nku.edu)) or calling 859-392-2407.

## 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 or Upward Bound official.
3. A member of NKU's Student Support Services professional staff.
4. A state of Kentucky representative issuing a Certification of Financial Assistance.
5. ACT/SAT application fee waiver request.

### Application Fee Exemptions

1. Students from the Greater Cincinnati Consortium of Colleges and Universities (GCCCU) and the Southwestern Ohio Council for Higher Education (SOCHE) are not charged the application fee if they apply as a visiting/consortium student.
2. Students applying to transfer to NKU from a colleges or university that is a member of GCCCU are charged the application fee.
3. Alumni who have earned bachelor's degrees from NKU will have the application fee waived for postbaccalaureate or graduate applications for admission.
4. The application fee is waived for spouses or dependents of NKU faculty or staff who are eligible for the tuition waiver.

### 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 be encouraged to pay the fee at the orientation immediately following acceptance. International students and PACE students will be charged at the time they enroll for their first semester at NKU.

If a student begins courses without paying the confirmation fee, the Office of New Student Orientation will post the fee to the student's account following the first week of classes and send a letter notifying the student of the charge.

Students may pay the enrollment confirmation fee online (<http://confirm.nku.edu>).

## 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, room 301. Residency packet deadlines and residency FAQs are available on the registrar's information website (<http://registrar.nku.edu/registration/residency.php>).

## 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, criminal justice, international studies, political science, nursing, and radiological technology. Additionally, music, theatre, and dance require an audition. Please review program requirements listed in the appropriate section of the catalog.

## Northern Exposure: New Student Orientation Program

### Traditional Undergraduate First-Time Students

The new student orientation program is mandatory for traditional undergraduate first-time students. The program 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 and comprehensive services offered at NKU. The two-day, one-night program 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. Invitations will be sent to students based on their acceptance date and NKU's receipt of their confirmation fee. Students are encouraged to attend an early orientation program to have the best selection of available courses. For more detailed information, students should consult the orientation website (<http://orientation.nku.edu>) or contact the associate dean of students for new student orientation and parent programs at 859-572-1967.

### Transfer and Nontraditional Students

Transfer and nontraditional students, including veterans, have the option of attending the two-day, one-night program or a half-day orientation program that highlights academic and student support services. Advising and course registration take place directly within the student's major department and are not included as part of the transfer/nontraditional student orientation program. For more detailed information, students should consult the orientation website or contact the associate dean of students for 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 completed within the first 45 credit hours.
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 via the Internet 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 usernames and directed to create a password to access their myNKU account. For myNKU tutorials, students should visit this website (<http://it.nku.edu/mynku/students>).

### 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 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/holds.php>).

## Housing

**Office:** University Housing

**Location:** Norse Commons 101

**Telephone:** 859-572-5676

**Fax:** 859-572-6099

**E-mail Address:** [housing@nku.edu](mailto:housing@nku.edu)

**Web Address:** <http://housing.nku.edu>

**Director:** Peter Trentacoste

**Other Key Personnel:**

Associate Director for Residential Life: Ann James

Associate Director of Operations: Arnie Slaughter

University housing provides housing services for single students who live on campus during the school year. Unless qualifying for an exemption, new freshman students are required to live on campus. With permission from the director of university housing, other students are eligible for campus housing provided they are regularly enrolled as a dual-admit student with a minimum of 12 credit hours at NKU and/or Gateway Community and Technical College. Consideration will be based on GPA, ACT scores, and academic progress.

Campus housing includes traditional residence hall rooms as well as apartment-style living, lobby areas, information desks, computer labs, televisions, vending areas, loft/study areas, and space for student recreation. NKU can accommodate 1,850 students in on-campus housing. The Residential Housing Association (RHA) represents resident students to the Office of University Housing and to the Student Government Association. RHA serves as a sponsor of residential village events and reviews and recommends university policy changes.

Housing costs are posted online. One bill covers rent, utilities (electricity, water, and sewage), local phone service, cable TV, and Internet access. Both 9- and 12-month contracts are available.

## 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 – are required to purchase a meal plan. Meal plans for residential students are purchased through the housing application. Commuter students may purchase meal plans online (<http://dineoncampus.com/nku>). All students paying for food with "flex dollars" on their All Card (the All Card is explained later in the catalog) will receive a dining discount. These flex dollars can be used in any dining facility on campus for a discount on purchases. Flex dollars can roll over from fall to spring semester. To purchase flex dollars, students should visit the web (<http://access.nku.edu/allcard>).



# INTERNATIONAL ADMISSIONS AND ENROLLMENT

## Office: International Students and Scholars

**Location:** University Center 405

**Telephone:** 859-572-6517

**Fax:** 859-572-6178

**E-mail Address:** oiss@nku.edu

**Web Address:** <http://oiss.nku.edu>

**Director:** Elizabeth Leibach

### Other Key Personnel:

Assistant Director: Elizabeth Chaulk  
 Manager, Immigration Services: Adam Widanski  
 Manager, International Admission and Credential Evaluation: Maureen Woods  
 International Academic Advisor: Hing Cao  
 Admissions Specialist: Jane Bratton  
 Administrative Assistant: Carmen Kirchgassner

The Office of International Students and Scholars (OISS) 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 to 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 potluck and fashion show each spring.

## Application Procedures

International students (all non-immigrants) should apply to the Office of International Students and Scholars (University Center 405) 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 the successful completion of the American English Language Program (AELP). Certain students may be granted special permission to enroll in credit-bearing classes along with their English as a Second Language (ESL) coursework. Levels are defined by fluency in the English language. International applicants are required to submit the following credentials:

1. International online application for undergraduate admission\* <http://www.nku.edu/apply>.
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.
6. Evidence of English proficiency.

\*Students wishing to apply for conditional admission through NKU's American English Language Program should use the International online application <http://www.nku.edu/apply> for undergraduate international student admission.

The SAT exam may be required for students from certain countries depending on U.S. consulate procedures or language proficiency. Those individuals will be so advised by the university or U.S. consulate.

International Students	For Fall Semester	For Spring Semester
Final Deadline	May 1	October 1

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

## 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 (TOEFL) taken within the last 2 years. The minimum TOEFL scores to be considered for admission are: paper based of 500, or Internet based of 61 (known as an iBT).
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.
3. A satisfactory score on the verbal portion of the ACT or SAT taken within the last 2 years. The minimum scores to be considered for admission are: ACT of 18 or SAT of 480.
4. An official and satisfactory score from the International English Language Testing Service (IELTS) taken within the last 2 years. The minimum IELTS scores to be considered for admission must include a cumulative band of 5.5 and subscores in reading and writing of 5.0 or better.
5. Successful completion of the American English Language (AELP) program with a passing score on the paper-based TOEFL exit exam given at the end of each fall and spring session. IELTS test scores may also be considered for students who successfully complete the AELP program.

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 an acceptable language. International students exempted from proof of English proficiency are still required to take the COMPASS, SAT, or ACT to be considered for admission. TOEFL and IELTS exams can also be taken in place of these exams. Some departments such as nursing may have other 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 exams in order to determine placement in mathematics unless specifically exempted by the university. International students may choose to take the placement test in reading and writing if they wish to be exempt from ENGI 099: Writing Workshop for International Students, ENGI 080: Writing Lab for International Students and RDG 091: Reading Workshop. All placement tests may be taken only once and must be taken within a student's first semester at NKU.

All placement exams are administered by 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 or RDG 091) if one of the following criteria are met at the time of admission:

1. A TOEFL score of paper based 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 regionally accredited U.S. college or university.
5. Proof of a U.S. bachelor's degree from a regionally 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 not the official or primary language of instruction as determined by the Office of International Students and Scholars.

## Reading Placement

The reading exam is not required unless the international student's TOEFL reading subscore is below 48 (paper-based), 14 (Internet-based) or an IELTS reading subscore below 5.5. This 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 language as determined by the Office of International Students and Scholars.

## Mathematics Placement

All international students without a qualifying 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 only 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.

## Developmental Courses

Generally, admitted international students with passing test scores on the TOEFL, IELTS or other NKU institutional placement exam will not be required to take any additional language developmental courses prior to registration, but an individual department may request that the student do so. However, international students with missing test scores or test scores below those established by the Kentucky Council on Postsecondary Education (CPE) will be required to enroll in language and/or math developmental courses offered through the Learning Assistance Program. Students are required to enroll in all necessary courses during their first two semesters at NKU. These courses are described here.

## Developmental Writing Courses

Academic advisors will enroll all eligible international students in "ENGI 099: Writing Workshop for International Students" and "ENGI 080: Writing Lab for International Students." This course is a prerequisite for "ENG 101: College Writing," and students must pass an exit exam before placement in ENG 101.

International students may be placed in this course by the International Academic Advisor in the Office of International Students and Scholars.

## Developmental Reading Courses

International students requiring developmental reading will be placed in any section of "RDG 091: Reading Workshop" or "RDG 110: Critical Reading." International students may be placed in this course by the International Academic Advisor in the Office of International Students and Scholars.

## Developmental Mathematics Courses

International students requiring developmental mathematics may be placed in any section of "MAHD 090: Basic Mathematical Skills," "MAHD 091: Elementary Geometry," "MAHD 094: Essential Algebra (Part III)," "MAHD 095: Essential Algebra," or "MAHD 099: Intermediate Algebra." International students may be placed in this course by the International Academic Advisor in the Office of International Students and Scholars.

## English Transfer Credit Policy for International Students

International students are not permitted to receive transfer credit or be considered for re-evaluation of transfer credit for any English language courses taken prior to initial admission to NKU.

All international students 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:

1. A paper-based TOEFL score above 550.
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).

English language coursework will be considered for transfer credit if the student is from a country where English is the official language of instruction. Otherwise, there are no exceptions to this policy.

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 291: 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. Secondly, students must submit detailed course descriptions and/or syllabus 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 (OISS) 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 international transfer applicants 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 (NACES). You can find a list of members at this website:

<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 educational documents at the time of 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 institutions prior to being admitted to NKU may be dismissed from the university and/or denied transfer credit.

## 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 405

**Telephone:** 859-572-6517

**Fax:** 859-572-6178

**E-mail Address:** [aelp@nku.edu](mailto:aelp@nku.edu)

**Web Address:** <http://aelp.nku.edu/>

**Director:** Jamie Tanzman

**Instructors:** James K. Duvall, Olga Filatova, Dave Gutmann, Karin Hauschild, Lisa Kirk, Jamie Tanzman

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. Two 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.

The program 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, and 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 16 weeks with the exception of the summer term which is 8 weeks. All instructors in the program have degrees and experience related to teaching English to international students. The application ([http://aelp.nku.edu/docs/AELP\\_Application1.pdf](http://aelp.nku.edu/docs/AELP_Application1.pdf)) and additional information is available online. Students seeking to enroll in AELP only must submit an AELP application and pay a \$50 application fee. Students seeking conditional admission 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. E-mail inquiries can be sent to [aelp@nku.edu](mailto:aelp@nku.edu).

To be considered for concurrent enrollment (bridge program), an Intensive English Program student should have a paper-bound 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 (IELTS) 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 director of the AELP and the chair of the chosen academic department. Bridge students are limited to 6 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 receive a certificate of completion. International students who have been dismissed or suspended from the AELP are not eligible to begin or resume studies at the university. In addition, students must obtain a minimum passing grade for the AELP and achieve a minimum passing score of 500 on the NKU English proficiency exam (institutional TOEFL) and/or a minimum cumulative passing score of 5.5 on the IELTS with sub scores 5.0 in both reading and writing.

**NOTE:** AELP 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 of ENGI 099, may choose to take the NKU writing placement test within one semester of their admission to NKU. Students must receive a passing score on this writing placement test to be eligible for an exception. 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)

The Office of Education Abroad (OEA) works in partnership with the Office of International Students and Scholars (OISS) 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 into 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 (859-572-6517). Certain international students may be eligible to request a waiver by completing a Waiver Petition Form to Office of International Students and Scholars. This is an annual process, and students must submit a Waiver Petition Form request every academic year to remain eligible.

# TUITION, FEES, AND FINANCIAL AID

## Tuition and Fees

**Office:** Bursar Operations

**Location:** Lucas Administrative Center 235

**Telephone:** 859-572-5204

**Fax:** 859-572-6087

**E-mail Address:** bursar@nku.edu

**Web Address:** <http://bursar.nku.edu>

**Director:** Kim Graboskey

**Other Key Personnel:**

Associate Director: Nick Pearson

Assistant Director: Brandon Billiter

The Office of Bursar Operations is responsible for assessment and collection of student tuition and fees. Hours are subject to change as necessary and are posted outside the office and on the bursar's website.

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 bursar's 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 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 for undergraduate, degree-seeking students from selected counties in Indiana (Dearborn, Franklin, Jefferson, Ohio, Ripley, and Switzerland).
6. A special rate for undergraduate students who are working on an initial bachelor's degree and meet the following three conditions:
  - a. Are a resident of certain Ohio counties (Adams, Brown, Butler, Clermont, Clinton, Fayette, Hamilton, Highland, or Warren).
  - b. Have an associate degree from one of the following Ohio institutions: University of Cincinnati (including Raymond Walters and Clermont College), Cincinnati State Technical Community College, or Southern State Community College.
  - c. Have submitted all necessary credentials to the NKU Office of 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 bursar's website. 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.
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 fee for participating in the installment plan.

4. Account maintenance fees – Any open balances at the end of each month will be assessed a 1.25 percent account maintenance fee.
5. Returned check fee – Students whose checks get returned to the bursar's office as not paid will be charged a fee.
6. Graduation fee – Students are charged a fee at the time they apply to graduate.
7. SGA Campus Recreation fee - All students are charged an additional, per credit hour fee for the construction of a new recreation center.

## Account Statements

Account statements are sent **ONLY** to the student's NKU e-mail address.

Account statements are not sent via the US Postal Service. They are sent at the end of every month. Students should be sure to regularly check their NKU e-mail accounts. Failure to read the e-mail statement does not relieve the student of the financial obligation to the university.

## 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).

### OR

2. 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 of the charges is due 30 days after the start of the semester, bringing the total paid to 75 percent of the bill.
3. The remaining balance is due 60 days after the initial payment was due. Accounts must be paid in full by the close of business on that day.

## Financial Warning and Cancellation of Classes for Nonpayment

Students enrolled in the NKU Installment Plan who do not pay 50 percent of their total charges within the first 2 weeks of the semester will be placed on "financial warning." Students placed on financial warning will be given 10 business days to bring their account into compliance. Those who remain on financial warning after 10 business days will have their classes canceled for nonpayment. Students who have their classes canceled 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 – including those on the NKU Installment Plan – whose bill is not paid in full before the 20th of every month will be sent a past due notice to his or her NKU e-mail account. 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 e-mail 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 bursar's office before an account is turned over to a collection agency because additional fees are incurred once the account is turned over for collection.

### Collections

If a student's account remains unpaid and is referred for collection, the student is liable for all attorney's fees and related costs and charges incurred by the university for the collection of the obligation. All accounts sent to collection are assessed a collection fee on their full unpaid balance and are reported as a delinquent account to the credit bureaus. If the account remains unpaid at the collection agency, the account will be sent to the Kentucky Department of Revenue 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 7 days should call the bursar's office.

#### 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 5 credits at the same time, the student would be charged for 17.5 hours. The formula to determine financial equivalent hours follows:

$$\text{Previous academic hours} - (\text{dropped hours} * \text{tuition adjustment percent}) + \text{added hours} = \text{financial equivalent hours charged for}$$

To determine refund eligibility, calculate: new tuition charge – previous tuition charge = 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 should sign up for Direct Deposit. The student will get refunds sooner by signing up for direct deposit. At myNKU, go to Biller Direct, select the direct deposit tab, and enter bank information. Full, detailed instructions are available on the bursar's website. If the student prefers a refund check, it will be sent to the standard address on file with the registrar. Direct deposit refunds are created daily. Refund checks are sent once a week on Fridays.

### Academic Common Market

The Academic Common Market (ACM) 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, North Carolina (graduate-level only), 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.

### 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 on 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.

### 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(s) 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 bursar 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 Office of Bursar Operations 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 bursar's 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.

### Withdrawal from the University

When a student determines that he or she will NOT be attending NKU for the upcoming semester, the student must officially withdraw before the first day of classes. To withdraw, the student must notify the registrar's office via e-mail (registrar@nku.edu) or telephone (859-572-5556). If the student does not officially withdraw from the university before the first day of classes, 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. Complete withdrawal may also affect financial aid eligibility for the current and future semesters.

## Financial Aid and Scholarships

**Location:** Lucas Administrative Center 416

**Telephone:** 859-572-5143

**Fax:** 859-572-6997

**E-mail Address:** ofa@nku.edu

**Web Address:** <http://financialaid.nku.edu>

**Director:** Leah Stewart

**Associate Directors:**

Penny Asalon (asalonp@nku.edu)

Jackie Marshall (marshallj@nku.edu)

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 Deadlines

FAFSA available	January 1
FAFSA Fall Semester Priority Deadline	February 1
FAFSA Spring Semester Priority Deadline	November 1
*FAFSA Summer Priority Deadline	February 1

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

### Scholarships

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

NKU provides scholarships to new freshmen and transfer students as well as current NKU students. For a complete listing of all undergraduate scholarships at NKU, 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.

### Scholarship Deadlines

Entering Freshmen	January 15
Current Students	March 15

## Freshman Scholarships

NKU awards more than \$1 million in academic scholarships each year to the incoming freshman class. The chart below provides some general scholarship eligibility guidelines. Generally, students with academic credentials at these levels or higher will receive scholarship consideration. Meeting the guidelines listed below does not guarantee a scholarship offer, but each applicant will receive careful consideration and fair treatment in what is a very competitive process. All scholarships are awarded for eight consecutive fall and spring semesters of full-time undergraduate work. Each scholarship has specific renewal requirements.

SCHOLARSHIP	GUIDELINES	AMOUNT
Distinguished Scholarship	3.5+ GPA 30+ ACT or 1330+ SAT*	Full tuition, room and board
Presidential Scholarship	3.5+ GPA 28+ ACT or 1250+ SAT*	Full tuition
Governor's Scholar Award	3.0+ GPA 24+ ACT or 1090+ SAT* Kentucky Governor's Scholar Program participant	In-state tuition
Excellence Scholarship	3.0+ GPA 26+ ACT or 1170+ SAT*	\$3,000 to \$5,000 award
Commonwealth Scholarship	3.0+ GPA 25+ ACT or 1130+ SAT*	\$2,000 award
Educational Diversity Scholarship (reference Section 6 of the scholarship application)	2.75+ GPA Must show evidence of academic achievement	Full tuition, room and board; or only full tuition; or only room and board
Achiever's Award ***	2.75+ GPA 23+ ACT or 1050+ SAT	Up to \$500 award (in-state residents) Up to \$3,000 award (out-of-state residents)
William H. Greaves Scholarship and Center for Integrative and Natural Science and Mathematics Scholarship (reference Section 5 of the scholarship application)	25+ ACT or 1130+ SAT* Declared major in biological sciences, chemistry, computer information technology, computer science, environmental science, geology, mathematics, physics, statistics, pre-engineering, or engineering technology programs	In-state tuition and a \$600 book award
Informatics Scholarship	3.0+ GPA 26+ ACT or 1170+ SAT* Declared major in business informatics, computer science, computer information technology, or media informatics	\$5,000 award
SOAR Scholarship** (reference Section 5 of the scholarship application)	23+ ACT or 540+ SAT mathematics score Kentucky resident who can demonstrate financial need; Declared major in biological sciences, chemistry, computer information technology, computer science, environmental science, geology, mathematics, physics, statistics, pre-engineering, or engineering technology program	Varies
Haile/US Bank College of Business Ohio Tuition Award	3.0+ GPA 23+ ACT or 1050+ SAT* Resident of Brown, Butler, Clermont, Hamilton, or Warren County in Ohio, declared major in the Haile/US Bank College of Business	Awarded in-state tuition rate

\*Combined critical reading and mathematics SAT scores.

\*\*Student must complete the FAFSA to determine need.

\*\*\*Indiana rate tuition recipients are not eligible for this award.

## Eligibility

To receive financial aid, a student must be enrolled in a program leading to a degree. Transient or non-degree student enrollment does not qualify for financial aid consideration.

During any semester, a student must be enrolled for at least 6 semester credit hours to receive a student loan and 12 semester credit hours to be considered a full-time student.

In order to determine eligibility, students must be fully admitted to NKU, and they must annually complete the FAFSA if they are applying for federal or state financial aid or for other special programs that indicate the FAFSA is required. Students will not be awarded federal, state, or institutional aid until their financial aid file is complete. Students must also be maintaining progress according to NKU's Satisfactory Academic Progress policy and must meet all federal, state, and institutional eligibility requirements. All estimated aid is awarded based on the number of enrolled hours.

International students are not eligible for federal financial aid. International students may be eligible for university-sponsored scholarships listed on the Office of Student Financial Assistance website. Please note any citizenship or residency requirements. International students may also be eligible for alternative loans.

## Types of Financial Aid

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.

TYPES OF FINANCIAL AID	ANNUAL AMOUNT	REPAYMENT REQUIRED	TYPE OF APPLICATION REQUIRED ANNUALLY & APPLICATION DEADLINE	REMARKS
Federal Pell Grant	Up to \$5,550	NO	FAFSA – February 1	Students who are applying for the federally funded Pell Grant, SEOG, Perkins Loan, or FWS must submit a FAFSA by the deadlines listed for each program.
Federal Supplemental Educational Opportunity Grant	Up to \$2,000/academic year \$1,000/semester	NO	FAFSA –February 1	Undergraduate students with exceptional financial need as determined by the FAFSA are eligible to be considered for the SEOG, a federally funded gift aid program.
KHEAA CAP Grant	\$79/credit hour \$1,900/full time*	NO	FAFSA – February 1	To be considered for a KHEAA CAP Grant, a student must be a Kentucky resident with great financial need as determined by the FAFSA.
Kentucky Educational Excellence Scholarship (KEES)	Varies depending upon high school GPA and ACT or SAT scores	NO	Information submitted by high school and university	The student must be a Kentucky resident attending a postsecondary school in Kentucky.
Strive Northern Kentucky University Promise Program	Varies, up to cost of attendance	NO	FAFSA – February 1	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.
Northern Difference Grant	Varies, up to cost of attendance	NO	FAFSA – February 1	A need-based grant program created for Kentucky residents who have a family income that falls at 150 percent or below the national poverty level. Students must be full time, Pell Grant eligible and must maintain a 2.5 GPA.

## Award Notification

Students who submit application materials for federal aid according to the instructions and before February 1 for fall aid will receive notices from three different sources: the federal government, the Kentucky Higher Education Assistance Authority (Kentucky residents only), and NKU.

Students will receive notice with instructions to view their myNKU account online to accept or decline the financial aid offer(s). This notice will include financial aid for which the student is eligible (that is, grants, student employment, scholarships, and student loans). Upon acceptance of loans, students need to complete the required loan entrance counseling and master promissory note. These requirements can be completed online (<http://studentloans.gov>).

It is important for students to understand that all financial aid awards are dependent upon institutional, private, state, or federal funding. Although the Office of Student Financial Assistance fully intends to be able to adequately fund any commitments that are made to the student, circumstances can change. Notification of any change to financial aid awards will be sent to the student via his or her NKU e-mail address or via U.S. mail.



In-State Freshman Grant	Up to \$1,500 for full-time enrollment	NO	FAFSA – February 1	A need-based grant program targeted toward first-time freshmen who are charged the in-state tuition rate. Students must be Pell Grant eligible.
In-State Sophomore Grant	Up to \$1,500 for full-time enrollment	NO	FAFSA – February 1	A need-based grant program targeted toward first-time sophomores who are charged the in-state tuition rate. Students must be Pell Grant eligible.
Out-of-State Freshman Grant	Up to \$1,500 for full-time enrollment	NO	FAFSA – February 1	A need-based grant program targeted toward first-time freshmen who are charged the nonresident tuition rate. Students must be Pell Grant eligible.
Out-of-State Sophomore Grant	Up to \$1,500 for full-time enrollment	NO	FAFSA – February 1	A need-based grant program targeted toward first-time sophomores who are charged the nonresident tuition rate. Students must be Pell Grant eligible.
Kentucky War Veterans' Dependents	Full tuition	NO	The Kentucky Center for Veterans' Affairs Application	To determine eligibility, contact the Kentucky Department for Veterans Affairs at 502-595-4447.
Federal College Work-Study Employment	Varies with needs/hours worked	NO	FAFSA – February 1	Employment under this federally funded program is restricted to students with demonstrated financial need. Undergraduate and graduate students who are eligible for consideration for the FWS must be enrolled for at least nine semester credit hours.
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/academic year \$1,500/semester	YES	FAFSA – February 1	This is a campus-based loan with a 5 percent interest rate. Students must be 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	Receipt of these funds will be dependent upon having a master promissory note (MPN) on file. An MPN can be completed online. Undergraduate students must be enrolled for a minimum of 6 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	Receipt of these funds will be dependent upon having a master promissory note on file. An MPN can be completed online. Undergraduate students must be enrolled for a minimum of 6 semester credit hours.
Federal Direct PLUS Loan	Up to the cost of attendance minus other financial aid	YES	PLUS Application/ Supplemental Information Form FAFSA – February 1	Yearly borrowing is limited to the cost of attendance less other financial assistance. There is no cumulative limit that parents may borrow for a dependent student's undergraduate education.

## 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 Scholarships

To be considered for the Kentucky Community and Technical College System (KCTCS) Scholarship that pays \$2,500 annually (\$1,250 per fall and \$1,250 per spring semester), a student must:

1. Be a 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 2.5 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 the fall semester of a 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, and Southern 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:

1. Reside in Adams, Brown, Butler, Clermont, Clinton, Fayette, Hamilton, Highland, or Warren County in Ohio.
2. Have earned an associate degree from Cincinnati State Technical and Community College, Southern State Community College, or the University of Cincinnati or one of UC's branch campuses (including Raymond Walters and Clermont College).
3. Be working toward a first bachelor's degree at NKU and not majoring in early childhood education, environmental sciences, criminal justice, 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

To qualify for this \$2,000 award (\$1,000 per fall and spring semester only), students must be admitted to NKU by the following dates: August 1 for fall semester or December 1 for spring semester.

To receive this award, a student must:

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).

Be academically eligible to return to the institution previously attended and have earned a minimum 2.0 cumulative GPA.

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 been previously enrolled at NKU as a non-degree, degree-seeking, or consortium student).

Enroll in a minimum of 12 semester credit hours.

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 reciprocity or the Indiana tuition rate.
2. They are admitted to the PACE program.
3. They are seeking postbaccalaureate credit hours.
4. They are pursuing a second 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>).

### 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 6 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 (COA). The COA includes tuition, room and board, books, transportation, and miscellaneous expenses. The COA differs based on a student's residency (Kentucky resident or non-resident). The COA also differs based on whether it is for an undergraduate, graduate, or law program of study. 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

Effective Date: July 1st, 2012

This policy will be used to determine eligibility for aid for the 2012-2013 academic year.

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, new postbaccalaureate, new graduate, and new law 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 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 qualitative progress (GPA), quantitative progress (hours earned), and maximum timeframe 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)

- a. Students whose academic standing status is Academic Warning, Academic Probation, or Suspension are not considered to be meeting the qualitative standards of academic progress.
- b. The following chart summarizes the minimum GPA required to be considered to be in good academic standing:

DEGREE PROGRAM	MINIMUM ACCEPTABLE CUMULATIVE GPA
Undergraduate student with 0-15 quality hours	1.66
Undergraduate Students	2.0
Graduate Students	3.0
First Year Law Students	1.6
Upper Level Law Students	2.0
Doctoral Students	3.0

### Quantitative Progress (Hours Earned)

Students must earn at least 67% of the total number of credit hours they have attempted. This includes remedial and transfer work. 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 (hours earned) standard.

Student #2:            Total Official Attempted Credit Hours:    54  
                               Total Official Earned Credit Hours:        42  
                                $42/54 = 77\%$   
                               \*This student has passed the quantitative (hours earned) standard.

### Maximum Time Frame for Degree Completion

- You are expected to earn a bachelor degree before
  - You have attempted 180 credit hours
  - You exceed 150% of the hours required for completion, if your degree requires considerably more than 120 hours to complete, as described in the catalog.
- Graduate students have a maximum number of 6 years to complete their programs, doctoral students have a maximum of 8 years, and law students have a maximum of 7 years.
- 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.
- Students who have not changed majors or students who are not pursuing a double major or additional degree are not eligible to appeal. All federal, state, and institutional aid must stop.

### Important Notes

- a. Classes for which students receive grades of "AU" (audit), "F", "NR" (grade not reported) or "W" (withdrawal) are not counted as earned hours. Incomplete coursework and deferred grades will not be considered as hours earned for an academic year until a grade is received.
- b. Remedial courses are counted as hours attempted and earned but are not factored into the GPA component of Satisfactory Academic Progress (SAP). Therefore they are subject only to the quantitative (hours earned) measure of SAP.
- c. ESL courses are counted as hours attempted and earned as well as factored into the GPA component of SAP. Therefore they are subject to both quantitative and qualitative measures of SAP.
- d. Change of major and students who work toward an additional degree are subject to both the qualitative (GPA) and quantitative (hours earned) measures of SAP.
- e. Transfer hours are counted as both hours attempted and hours earned.
- f. Bankrupted hours are counted as attempted hours.

### Course Repetitions

- a. When a student repeats a course, the last grade prevails and the original grade is removed from the GPA computation.
- b. A repeated course may only count towards 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.
- c. 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 that he/she has previously passed, the student cannot receive aid for that course.

### Re-establishing Financial Aid Eligibility

- a. 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 (hours earned) measures.
- b. 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 to have his/her aid reinstated.
- c. If a student was denied financial aid because he/she did not earn at least 67% of the total hours attempted due to incomplete grades, and now grades have been recorded for those hours to meet the 67% requirement,

the student should contact the Office of Student Financial Assistance to have his/her aid reinstated.

- d. 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 reinstated.

## Appeals

- a. If a student was denied their financial aid for failure to meet the academic progress standards, 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.
- b. If it is mathematically impossible for a student to meet the minimum GPA requirement after two semesters, a student's appeal will automatically be denied.

1. This determination will be made based on the assumption of full time enrollment (12 hours) for two semesters for undergraduates.

- c. The Student Financial Aid Appeals Committee will review appeal requests and may grant approval for the following reasons:

1. The death of a relative of the student.
2. The personal injury or illness of the student.
3. Special circumstances as determined by the institution.

- d. The committee meets twice a month during June, July, and August and at least once a month during September, December, and January.

- e. Appeals must include

1. A letter written by the student which clearly states the extraordinary circumstances which 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.
2. Documentation such as an obituary or funeral notice for a death in the family.
3. If you are filing your appeal based on medical circumstances, you must provide documentation issued by a physician or hospital. All documentation must be printed on the physician's or hospital's official letterhead and it must be signed by the physician. This documentation must include:

- A brief summary of the illness
- A specific diagnosis
- The date of onset of the illness
- The date you sought treatment for this illness
- A description of the impact that the medical condition had on the student's ability to attend classes or perform class requirements and why it was medically necessary to discontinue studies as a result of medical circumstances.
- Medical documentation must satisfy all of the above requirements. The committee will not accept or consider copies of insurance forms, bills, explanation of benefits (EOB) forms, hospital records or physician's medical records.

4. A student may submit a statement from his/her academic advisor, Dean, or Department Chair, if the student feels it is appropriate.

5. If a student is appealing due to maximum timeframe, the student must include the following documents with their appeal:

- Request for appeal should contain the expected date of graduation.
- Declaration of major form from the Office of the Registrar
- Degree Candidacy form from the Office of the Registrar
- Certification of Major from the Office of the Registrar

- 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 the 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 67% requirement, the student will be required to earn all credit hours attempted (no withdrawals and no grades of "F" or "I") for each of the two semesters. If a student does not earn all of the credit hours attempted during the first semester of financial aid probation, he/she cannot receive aid for the second semester.
3. A student may only appeal one time for each Standard of Academic Progress. If a student fails to make academic progress more than once, or their appeal is denied, the student must enroll and meet the standards of academic progress at their own expense.
4. 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.
5. 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

- a. Financial aid recipients have a conditional period of the summer session after the spring semester. This allows the student a chance to bring up their GPA or to meet the 67% requirement. 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.
- b. If a student submits an appeal for the summer session and their 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 university 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.

Percent of aid to be returned =

$$\frac{\text{Number of calendar days remaining in the semester}}{\text{Total number of calendar days in the semester}}$$

Example: A student who remains enrolled for 10 percent of a semester will be eligible to keep 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). Similarly, a student who remains enrolled for 60 percent of a semester will be eligible to keep 60 percent of the total Title IV aid disbursed to him or her. The balance (40 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 bursar's 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:

1	Federal Unsubsidized Direct Loan
2	Federal Subsidized Direct Loan
3	Federal Perkins Loan
4	Federal Plus Loan
5	Federal Pell Grant
6	Federal Supplemental Educational Opportunity Grant

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 any). Any remaining amount of the post-withdrawal disbursements will be mailed directly to the student.

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 receive all *F* and *I* grades are subject to federal regulations titled Return of Title IV Funds. These students are considered unofficially withdrawn at the midpoint of the semester. Without acceptable proof of attendance or participation in class relative to the student's activity beyond the midpoint 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 \$3,500 Federal Subsidized Stafford Loan and \$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 percent = \$1,000) be refunded for the Federal Subsidized Stafford Loan. 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 a class is a letter from a professor, instructor, or academic advisor noting the last date of a student's presence in class or involvement in an academically related activity. Examples of academically related activities are examinations or quizzes; tutorials; computer-assisted instruction; academic advising or counseling; academic conferences; academic assignments, papers, or projects; and attendance at a school-assigned study group. Financial aid recipients receiving all *F* and *I* 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 certification 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.

# ACADEMIC PROGRAM OPPORTUNITIES

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## Cooperative Education

### Career Development Center

**Location:** University Center 305

**Telephone:** 859-572-5680

**Fax:** 859-572-6996

**E-mail Address:** cdc@nku.edu

**Web Address:** <http://cdc.nku.edu>

**Director:** Bill Froude

**Co-op Manager:** Amanda Meeker

Cooperative Education (CEP 300) 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 the Career Development Center staff. For step-by-step instructions, see the How to Co-op Guide (<http://cdc.nku.edu/students/co-op.php>).

## 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 – 1, 2, 3, or 6 credits – based on the total number of hours they work each semester. Students enrolled for 6 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 the Career Development Center.

## Tuition

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

## First-Year Programs

**Location:** Founders Hall 231

**Telephone:** 859-572-5913

**Fax:** 859-572-1952

**Email Address:** [firstyearprograms@nku.edu](mailto:firstyearprograms@nku.edu)

**Web Address:** <http://firstyear.nku.edu>

**Director:** Mei Mei Burr

### **Other Key Personnel:**

Associate Director: Jeanne Pettit

Assistant Director: Rich Shivener

Department Specialist: Sue Chenot

Lecturer: Tracy Hart

Freshman Specialist in Psychological Science: Juliann Bosko-Young

Freshman Specialist in History: Suzanne DeLuca

Freshman Specialist in English: Darrin McMillen

The Office of First-Year Programs is responsible for coordinating five major academic initiatives for freshmen: (1) UNV 101, (2) Learning Communities, (3) Midterm Grades, (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.

## Course Information

UNV 301 is a graded, 3-credit-hour course that is limited to students who have earned 60 or more credit hours and have a GPA of at 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.

## 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 make 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.

## Midterm Grades

All students who have earned fewer than 30 credit hours receive midterm grades. Midterm grades give freshmen the opportunity to review their academic progress halfway through the semester. Midterm grades are tentative and are not part of a student's permanent record. This feedback is provided so that students can make informed decisions about how to successfully complete the semester. Students are encouraged to meet with their professors or

advisors if they have any questions about their academic progress. Email notices are sent to students' NKU addresses when it is time to check midterm grades.

### 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 English, history/geography, or psychological science are advised by a freshman specialist.

### 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.

### Course Information

UNV 301 is a graded, 3-credit-hour course that is limited to students who have earned 60 or more credit hours and have 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.

### 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.

### Grant County Center

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

**Telephone:** 859-824-3600

**Fax:** 859-824-3625

**E-mail Address:** grantcounty@nku.edu

**Web Address:** <http://adultlearner.nku.edu/grantcounty.html>

**Director:** Betsy John Jennings

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 onsite 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 e-mail ([GrantCounty@nku.edu](mailto:GrantCounty@nku.edu)).

## Greater Cincinnati Consortium of Colleges and Universities

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

The policies below, which govern taking classes from GCCCCU and SOCHE schools, are followed by a list of colleges and universities that are members of the two groups.

### Policies

- Students may enroll in courses at a GCCCCU member institution providing that the course(s) are not available at NKU for one academic year, unless the student has officially applied for graduation with the Office of the Registrar. If the course(s) is not available at a GCCCCU campus, then, and only then, students can enroll for those courses at a SOCHE school.
- Students must be degree-seeking.
- Course load policies stipulate that:
  - Students may enroll for no more than two courses at the host (non-NKU) institution in one semester.
  - The student's total load is governed by NKU's *Course Load Policy*.
  - Student enrollment between NKU and the consortium institution must be at least half-time (6 credits) with at least 3 credits at NKU.
- The total number of consortium semester hours is limited to 12.
- Students enrolling at a member institution in the summer must either:
  - Also be enrolled at NKU in the summer, or
  - 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.
- Tuition and fees:
  - Students who take courses through this program pay tuition to NKU following regular NKU tuition rates.
  - Students are required to pay course-related fees at the host institution.
- Approval to take courses:
  - The vice provost must approve all requests to enroll in a course through GCCCCU or SOCHE. In addition:
    - Courses for credit toward an academic major must be approved by the chair of the major department.
    - Courses for credit toward an academic minor must be approved by the chair of the department housing the minor.
    - Courses for credit in the general education program must be approved by NKU's director of general education.
- Course credits and grades will be posted on the transcript.
  - Credit hours earned under this program are considered as credits earned in residence at NKU.
  - 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 3 quarter hours = 2 semester hours.
- 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  
 Chatfield College  
 Cincinnati Christian University  
 Cincinnati State Technical and Community College  
 College of Mt. St. Joseph  
 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)  
 Northern Kentucky University  
 Thomas More College  
 Union Institute and University  
 University of Cincinnati (including Clermont College and 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  
 Sinclair Community College  
 Southern State Community College  
 United Theological Seminary  
 University of Dayton  
 Urbana University  
 Wilberforce University  
 Wittenberg University  
 Wright State University

## Honors Program

**Location:** Honors House

**Telephone:** 859-572-5400

**Fax:** 859-572-6091

**Web Address:** <http://honors.nku.edu>

**Interim Director:** Belle Zembrodt

**Other Key Personnel:**

Advisor: David Kime  
 Recruitment & Student Services Coordinator: David Emery  
 Administrative Specialist: Rita Thomas

**Full-time faculty:** Ali Godel, Kristin Hornsby, Kenneth Oswald, Belle Zembrodt

**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 active learning, undergraduate research, civic engagement/service learning, and global citizenship.

Honors education involves ongoing interaction with peers and instructors, 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 minor. Coordinated advising between honors and academic departments facilitates a smooth curricular flow for all honors students.

Students who complete the honors program earn a 21-hour academic minor that includes 15 to 18 credits of coursework, as well as a 3- or 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. Capstone directors usually come from specific academic departments, often from a student's academic major.

Students who successfully complete the honors curriculum earn the designation University Honors Scholar, a term that appears on the diploma and transcript. Honors status is also recognized in the commencement program and with a medallion worn by each honors student at graduation.

**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. The learning outcomes of honors courses include demonstration of superior communication skills, both in writing and speaking. The capstone project that is the exit requirement for the honors minor 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. In addition, honors pedagogy embraces the notion of the "well-rounded student" and seeks to cultivate this notion through both courses and co-curricular experiences that involve civic engagement and global citizenship.

The honors program supports co-curricular activities that often involve site-based or field learning, student-led activities, and programming events both within the Honors House and at adjacent Callahan Hall, which houses the honors wing. Honors provides many leadership opportunities in honors including: peer mentors, students who serve as academic advisors for freshmen taking the required entry-level seminar, HNR 101; and peer editors of *The Honors Herald*, a student-run magazine highlighting the pillars of the Honors Program.

The honors program awards scholarship money to students in the program to support international 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 the Kentucky Institute for International Studies program, and capstone-related travel.

Students are also supported to travel and present their honors research at national and regional conferences such as National Collegiate Honors Council conference and the Kentucky Honors Roundtable.

**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:** This is not the same as the application to NKU. The honors application is a separate application.) For incoming freshmen, outstanding 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.

For continuing students, a GPA of 3.25 or above qualifies a student to apply to honors, but 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. Students may always 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 encouraged every semester to meet with an honors advisor.

**Minor requirements:** For information about the honors minor, see the interdisciplinary section of the catalog.

## ROTC

**Location:** Founders Hall 206 and 207

**Telephone:** 859-572-7838 or 859-572-7839

**E-mail:** Kovachj1@nku.edu

**Web Address:** <http://www.xavier.edu/rotc>

**Contact at NKU:** Jonathan Kovach

**Faculty:** Lt. Col. Shane P. Ousey, Maj. Steven Harmon, Maj. Jonathan Kovach, Capt. Andrew Barham, Capt. Sarah Lunsford, 2nd Lt. Stephen Wolkoff, Master Sgt. Ronald Gaines, Sgt. 1st Class Brad Sayles, Staff Sgt. Justin Wininger

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 by phone at 513-745-1060. An office is located on NKU's campus in Founders Hall 205 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 2-, 3-, or 4-year stint in the ROTC program. The 4-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 3-year program begins with credit granted for prior military training, such as basic training or Junior ROTC, or with the cadet "compressing" the freshman and sophomore instruction into a single year. The 2-year program begins with credit granted for prior military training or a 4-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 both the 3- and 2-year programs, 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, and be in good academic standing with their university.

Non-contracted (lower-division) 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, to include Junior ROTC, or who are current Army National Guard or Army Reserve members may be granted credit for MILS 100- and MILS 200-level classes, at the discretion of the professor of military science. Current 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 Military Science (MSC) courses.

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

**Location:** Founders Hall 536

**Telephone:** 859-572-1448

**Fax:** 859-572-1445

**E-mail Address:** [engage@nku.edu](mailto:engage@nku.edu)

**Web Address:** <http://civicengage.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.

### Service

NKU students have traveled 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 nonprofits, designed exhibits for community museums, and otherwise applied what they've learned in class in order to meet a community need. This marriage of curriculum and community service is called service learning. NKU offers dozens of service-learning classes each semester. Students will find service-learning classes whether their major is mathematics or history, chemistry or theatre, business or nursing. Internships, alternative spring breaks, and independent studies provide another route to connecting students' academic experiences to community service. The Scripps Howard Center also works with Student Life and other campus partners to match students with volunteer opportunities in the community.

### 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. The annual Alumni Lecture brings in top names from the national political scene. Among the headliners in recent years: Howard Dean, Jeb Bush, Karl Rove, Dee Dee Meyers, Mike Huckabee, Mario Cuomo, James Carville, George Will, Al Franken, and George Stephanopoulos. At the local level, 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. And NKU's American Democracy Project Club is a perfect place to meet other students with an interest in public affairs and service.

The Scripps Howard Center will guide students who want to get involved through the range of public engagement opportunities on campus and in the community.

## 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 activities. Students can obtain funding for materials, supplies, equipment, software, or project-related travel while they conduct a project under the mentorship of a faculty member. Funding guidelines are available online (<http://rgc.nku.edu/students>).

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 415

**Telephone:** 859-572-6908

**Fax:** 859-572-6650

**E-mail Address:** [studyabroad@nku.edu](mailto:studyabroad@nku.edu)

**Web Address:** <http://studyabroad.nku.edu>

**Director:** Dr. François LeRoy

The Office of Education Abroad coordinates all education abroad programs at NKU. Through membership in several consortia, 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, education students can participate in international student teaching (<http://studyabroad.nku.edu/program/teaching.php>). 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 studies or major requirements.

Students may participate in a wide range of courses and programs in English-speaking regions available through NKU's membership in the Cooperative Center for Study Abroad (CCSA) and in non-English speaking countries through its membership in the Kentucky Institute for International Studies (KIIS).

CCSA develops and coordinates short-term programs during the winter break in:

- Australia
- England
- Hong Kong
- India
- Ireland
- South Africa

Short-term summer programs are available in:

- Australia
- Belize
- England
- Ghana
- Ireland

Scotland

CCSA also offers semester-long programs in England as well as internships in Dublin, Ireland; and Sydney, Australia.

KIIS runs short-term summer programs in the following countries of Africa, Asia, Europe, North America, and Latin America:

- Argentina
- Austria
- Canada-Quebec
- China
- Costa Rica
- Czech Republic
- Denmark
- East Slavic Europe (Poland and Ukraine)
- Ecuador
- France
- Germany
- Greece
- Italy
- Japan
- Mexico
- Spain
- Tanzania
- Turkey

A fall semester program is available in Merida, Mexico, while spring semester programs are available in Caen, France; Regensburg, Germany; and Segovia, Spain. An internship in Vienna, Austria, is also offered. Note that only a few of these programs are language-based. Most courses are taught in English by faculty from consortium colleges and universities.

Student and faculty exchanges are offered with the following institutions:

- Edith Cowan University in Perth, Australia
- East China University of Political Science and Law, China
- The Universidad Nacional in Heredia, Costa Rica
- Aarhus School of Business in Aarhus, Denmark
- The University of San Francisco de Quito, Ecuador
- The University of East London in London, England
- The University of Basse-Normandie in Caen, France
- Ludwig Maximilians University in Munich, Germany
- Gifu University in Gifu, Japan
- Nanzan University in Nagoya, Japan
- The Universidad Autónoma del Estado de Morelos in Cuernavaca, Mexico
- The Hague University of Applied Sciences in The Hague, The Netherlands
- Cebu State College of Science and Technology in Cebu, The Philippines
- Babes-Bolyai University in Cluj-Napoca, Romania
- The Peoples' Friendship University of Russia in Moscow, Russia
- Glasgow Caledonian University in Glasgow, Scotland
- Hansung University in Seoul, South Korea
- Sookmyung Women's University in Seoul, South Korea
- University of León in León, Spain
- National Chengchi University in Taipei, Taiwan

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. In addition, both CCSA and KIIS offer individual scholarships.

Study abroad options are not limited to these. 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 can also reach the office via telephone (859-572-6908) or visit the website (<http://studyabroad.nku.edu>).

# UNIVERSITY POLICIES AND PROCEDURES

## 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/codes\\_and\\_policies/codeofstudent\\_rights](http://deanofstudents.nku.edu/codes_and_policies/codeofstudent_rights)).

## 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 may contact the Office of the Registrar to set up an appointment to discuss academic renewal.
3. To be considered for academic renewal, the student must have a GPA of at least 2.00 based on all courses attempted 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 transcribed 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.
8. The student's transcript will indicate the semesters that were subjected to academic renewal.
9. An updated copy of the transcript will be furnished to the appropriate dean, advisor, and student.
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 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.
  - a. Freshman 0-29 credit hours
  - b. Sophomore 30-59 credit hours
  - c. Junior 60-89 credit hours
  - d. Senior 90 or more credit hours
2. **Good Standing:** A student is in good standing when he or she has more than 16 credit hours (including all courses numbered 100 and above) and an overall 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 an overall GPA that meets or exceeds 1.66 for all courses attempted at the 100 level and above.
3. **Academic Warning:** 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. When a student is placed 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.
4. **Removal from Academic Warning:** A student will be placed on academic warning only once in his or her academic career and for only one semester. The semester of academic warning will be the first semester in which the student is enrolled after earning a GPA that qualifies for academic warning. At the end of the semester of academic warning, one of two things will happen:
  - a. If the student's overall GPA has increased to at least 2.00, the student will be removed from academic warning.
  - b. If the student has failed to increase his or her overall GPA to at least 2.00, the student will be placed on probation. For more information, see the section on probation.

## ADA Policy

The Office of Disability Services 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/codes\\_and\\_policies/codeofstudent\\_rights](http://deanofstudents.nku.edu/codes_and_policies/codeofstudent_rights)).

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 Office of Health, Counseling, and Prevention Services, 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.
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 4 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 8 consecutive academic years from the time the student first enrolled. After 8 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.

## Graduation Ceremonies

Each year, NKU holds two graduation ceremonies exclusively for undergraduates: 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.

## 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 1 week prior to final exams for the 8-week courses or 2 weeks prior to final exams for a full-semester course. Students are notified via e-mail 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" within 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" within the online evaluation instrument will incur a 2-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>).

## Course Load Policy

It is normal that for one 3-semester-hour course students should expect to spend 5-6 hours on course-related work outside of class time. This means that students carrying 15 semester hours may need to spend a minimum of 25-30 hours per week in 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 semester hours.
2. The maximum course load in fall or spring semester is 18 semester hours (including audit, residence, correspondence, off-campus, and consortium courses). EXCEPTIONS:

- a. A student who has attained a grade-point average of 3.00 or higher for a total of at least 15 semester hours for the preceding semester may be permitted by his or her dean to carry up to 21 semester 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 semester hours during each of the 5-week summer sessions for a total of 12 semester hours. The maximum course load for all summer sessions is 15 semester hours.
5. A student on academic probation may not take more than 13 semester hours in a fall or spring semester, no more than 6 semester hours total in summer, and no more than one class in any one summer or winter session.
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 the 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 juniors, 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 the **bachelor's degree** are required to declare a major before completing 50 semester credit hours. Transfer students entering with more than 50 semester credit hours are required to declare a major by the end of their first semester of enrollment.
4. Students seeking the **associate degree** are required to declare a major before completing 25 semester credit hours. Transfer students entering with more than 25 semester credit hours are required to declare a major by the end of their first semester of enrollment.
5. Students **must** file a declaration/change of major form any time they elect to change their major. It is a student's responsibility to file the form with the relevant academic department and the registrar. Failure to file 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 4 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 3 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. A student who does not attend class for the first 3 weeks of the semester is likely to be dropped from the course.
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/codes\\_and\\_policies/codeofstudent\\_rights](http://deanofstudents.nku.edu/codes_and_policies/codeofstudent_rights)) for more information.
3. Some courses or departments may require a student to attend the first class meeting or to notify the instructor of the student's expected absence in order to avoid an immediate faculty-initiated withdrawal from the course.
4. Students should also consult the online registration guide, published each semester, for more restrictive attendance policies that may lead to faculty-initiated withdrawals.

## Equal Opportunity and Sexual Misconduct

NKU is committed to building a diverse faculty, staff, and student population. The goal is to create a campus environment that embraces the broad range of human diversity. The university is committed to equal employment opportunity, affirmative action, and eliminating discrimination. This commitment is consistent with an intellectual community that celebrates individual differences and diversity in addition to being a matter of law.

Discrimination against any individual based upon protected status – defined as age, color, disability, gender, national origin, race, religion, sexual orientation, or veteran status – is prohibited. The university will provide equal

opportunity to all employees and students in regard to salaries, promotions, benefits, working conditions, educational opportunities, admissions policies, financial aid, and other school-administered programs and will monitor these areas to ensure that any differences that may exist are the result of *bona fide* policies and procedures and not the result of illegal discrimination.

This basic principle is incorporated in the implementation and administration of all personnel activity, educational programs, admissions policies, financial aid, and other university administered programs such as social, recreational, and athletics programs.

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.

The successful implementation of the spirit of this policy requires the utmost cooperation among administration, faculty, staff, and students.

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 which may be found at [http://deanofstudents.nku.edu/codes\\_and\\_policies/codeofstudent\\_rights/index.php](http://deanofstudents.nku.edu/codes_and_policies/codeofstudent_rights/index.php). 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 at <http://deanofstudents.nku.edu/titleIX.php>.

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 at <http://deanofstudents.nku.edu>.

## 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 later date. If none of the faculty

agrees to a later exam date, the faculty member giving the third exam of the day is required to arrange a later date for the student to take the exam

## Four-Year Graduation Plans

Each of the academic majors described in the college/department sections of the catalog is linked to a 4-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 4 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 4-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 semester hours in a fall or spring semester and 9 semester hours in summer.

## Grading Policies

### Grading Scale

Grade	Value in GPA Calculation	Interpretation
A	4.000	Exceptionally high achievement
A-	3.667	
B+	3.333	
B	3.000	High achievement
B-	2.667	
C+	2.333	
C	2.000	Average achievement
C-	1.667	
D+	1.333	
D	1.000	Below average achievement
F	0.000	

Other grading options include the following:

- I Means that part of the work in a course remains incomplete. It is given only at the student's request and where there is a reasonable possibility that a passing grade will result from completion of the work. An *I* must be completed by midterm of the next full semester; otherwise a grade of *F* is assigned. In unusual circumstances, the appropriate dean may grant an extension of time, to a specified date, for removal of an *I* and will notify the registrar of such action. In no case, however, will more than two extensions be granted for an *I*.
- 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.
- N 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.

## 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 *I* (incomplete) 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 section of this chapter dealing with *academic appeals*.

## 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 obtainable from the registrar's office.
  - 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 semester 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 area of concentration requirements.
  - g. Pass/fail courses may be applied toward 300 level and above course requirements.
  - h. No more than 12 semester 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 *P* 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 area of concentration after having taken a course under the student-initiated pass/fail option, any discussion regarding acceptance of the course for major, minor, or area of concentration 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 grade may be consulted in such a case.

### 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 3 credits and the student earns a grade of *B+*, then multiply 3 times 3.333 to get 9.999. This yields the points for that course.
3. Add together all of the points.
4. Add together all of the credits for courses that were assigned a letter grade and that were at the 100 level and above.
5. Divide the sum of the total points by the sum of the credits.
6. **Note:** Grades of *I*, *K*, *N*, *NR*, *P*, *T*, and *W* do not affect the GPA; a grade of *F* does affect it.
7. Here is an example of how to calculate a GPA:

Course No.	Credits	Grade	Grade Value	Points
ENG 101	3	B+	3.333	9.999
CMST 101	3	A-	3.667	11.001
MAHD 095	0	A-	course below 100	0
HIS 103	3	B	3.000	9.000
AST 110	4	F	0	0
	13			30

$$\text{GPA} = 30/13 = 2.308$$

### 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 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 8 semester hours at the 100 level and above (this excludes developmental coursework) achieving a 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 3 semester hours but fewer than 8 semester hours at the 100 level and above (this excludes developmental coursework) achieving a GPA of at least 3.600 at the completion of a semester's work will be appointed to the Scholar's List.

### 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 or 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, graduate and undergraduate combined, 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. An academic area of concentration 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/concentration/second major requirement. Please see appropriate individual program requirements to determine if the program exempts the student from the minor/concentration/second major requirement.
9. The requirements for a student's major(s), minor(s), and concentration(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 the major(s), minor(s), and concentration (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, courses taken through the Greater Cincinnati Consortium of Colleges and Universities (GCCCU) are treated as though they were taken from NKU.

**Applying to Graduate – Bachelor's Degree**

To apply to graduate with a bachelor degree, a student must:

- 1. Have a **program certification form** on file.
  - a. One signed form is required for each major, minor, and concentration 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 concentration.
  - 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 form, available online through myNKU, must 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 by April 22 ..... \$ 50
    - Apply between April 23 and August 8 ..... \$ 80
    - Apply between August 9 and October 31 ..... \$100
    - Apply 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 by October 22 ..... \$ 50
    - Apply between October 23 and January 8 ..... \$ 80
    - Apply between January 9 and March 30 ..... \$100
    - Apply 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 by April 22 ..... \$ 50
    - Apply between April 23 and May 31 ..... \$ 80

Apply between June 1 and July 1 ..... \$100  
 Apply 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 (GCCCU) 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 on each one. **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, as identified by the student. 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 requirements for the second degree.

- b. Earn a minimum of 30 semester hours from NKU beyond the credits required 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 (GCCCU) are treated as though they were taken from NKU.

### Mandatory Senior Assessment

- As a requirement for graduation with a bachelor's degree, a student must participate in senior assessment.
- Students may participate in senior assessment after they apply for graduation and receive an email from the Office of Institutional Research.
- A student who fails to participate in senior assessment is in assessment default and will not be able to receive a diploma until the default is remedied.
- A student remedies assessment default by participating in the appropriate assessment.
- No student will be expected or required to participate in more than one form of general education assessment. However, students may be required to participate in a separate assessment of their major field.
- See the website for the senior survey (<https://ppb.nku.edu/ir/takesensrvey.php>)

### Requirements for an Associate Degree

In order to receive an associate degree, a student must:

- Complete a minimum of 60 semester credit hours, the last 20 of which must be taken from NKU\*.
- Complete developmental coursework, if required.
- Complete the general education requirements for an associate degree.
- Complete the requirements of the major for associate degree candidates.
- Remove all incomplete grades by earning a grade of *A* through *F* in place of each one.
- 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).
- Satisfy all financial and administrative obligations to the university.
- 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 (GCCCU) 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:

- Have a **program certification form** on file.
  - The form is available online and must be signed by the department chair (or designee) of the student's major field of study.
  - 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.
  - The program certification form must be submitted prior to, or concurrently with, the application for degree candidacy, described below.
- File an **application for undergraduate degree candidacy** in the registrar's office (Lucas Administrative Center 301). The form, available online through myNKU, must be submitted by the following dates.

For fall graduation .....April 22  
 For spring graduation .....October 22  
 For summer graduation .....April 22

- Pay the application to graduate fee.

- For fall semester graduation:

Apply by April 22.....\$ 50  
 Apply between April 23 and August 8 .....\$ 80  
 Apply between August 9 and October 31 .....\$100  
 Apply 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.

- For spring semester graduation:

Apply by October 22.....\$ 50  
 Apply between October 23 and January 8 .....\$ 80  
 Apply between January 9 and March 30 .....\$100  
 Apply 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.

- For summer semester graduation:

Apply by April 22.....\$ 50  
 Apply between April 23 and May 31 .....\$ 80  
 Apply between June 1 and July 1 .....\$100  
 Apply 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 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 summer graduation.

### Graduating with Honors – Associate Degree

- In order for a student to graduate with associate degree honors, he or she 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.
- There are two levels of associate degree honors:

With distinction.....3.50 – 3.799  
 With high distinction.....3.80 – 4.00

- 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.
- In order to be considered for graduation with honors, a student who has a bachelor's degree and is subsequently earning an associate degree must complete a minimum of 30 semester credits from NKU\* beyond the credits that were 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 (GCCCU) are treated as though they were taken from NKU.

## Second Associate Degree

A student who has not earned a bachelor's degree and wishes to receive two associate degrees may meet the requirements for them concurrently or consecutively. In order to receive two associate degrees, a student must:

1. Complete requirements for both degrees.
2. Earn a minimum of 20 semester credits from NKU\* beyond requirements for the first degree.
3. Earn a minimum of 40 semester credits from NKU\* in order to earn two NKU associate degrees.

**\*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 (GCCCU) are treated as though they were taken from NKU.

## Associate Degree after a Bachelor's Degree

A student who has already earned a bachelor's degree and wishes to receive an associate degree must:

1. Complete the requirements for the associate degree.
2. Earn a minimum of 20 semester credits from NKU\* beyond the credits that were required for the bachelor's degree. Of these 20 credits, at least 12 must be in the discipline of the associate 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 (GCCCU) are treated as though they were taken from NKU.

## Graduation Ceremonies

Each year, NKU holds two graduation ceremonies exclusively for undergraduates: 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.

## 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 the Registrar (Lucas Administrative Center 301). Additional information on regulations and approved NKU programs for AP credit may be obtained from the Office of the Registrar. 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.

## Honor Code

This 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/codes\\_and\\_policies/codeofstudent\\_rights](http://deanofstudents.nku.edu/codes_and_policies/codeofstudent_rights)).

## 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.

## Nontraditional Credit

### Credit by Examination

Transfer students awarded credit by examination by their previous institutions are required to submit their original score report for evaluation by NKU standards.

DISCIPLINE	ACCEPTABLE SCORE	COURSE	SEMESTER HOURS
Art, General	3, 4, 5	ART 100 Art Appreciation	3
Art, Drawing	3, 4, 5	ART 131 Basic Drawing	3
Art, Studio 2D	3, 4, 5	ART 132 2-Dimensional Studies/Visual Art	3
Art, Studio 3D	3, 4, 5	ART 133 3-Dimensional Studies/Visual Art	3
Art History	3, 4, 5	ARTH 101 Survey of Western Art I <b>AND</b> ARTH 102 Survey of Western Art II	3 3
Biological Sciences	3	BIO 120 Understanding the Living World	4
Biological Sciences	4, 5	BIO 150/BIO 150L Introduction to Biology I with laboratory <b>OR</b> BIO 120/BIO 120L Understanding the Living World	4 4
Calculus AB*	3	MAT 128 Calculus A	3
Calculus AB*	4, 5	MAT 129 Calculus I	4
Calculus BC*	3	MAT 129 Calculus I	4
Calculus BC*	4, 5	MAT 129 Calculus I <b>AND</b> MAT 229 Calculus II	4 5
Chemistry	3	CHE 120/CHE 120L General Chemistry I with laboratory	4
Chemistry	4, 5	CHE 120/CHE 120L General Chemistry I with laboratory <b>AND</b> CHE 121/CHE 121L General Chemistry II with laboratory	4 4
Chinese Language and Culture	3	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	3
Chinese Language and Culture	4, 5	CHI 202 Intermediate Chinese II	3
Computer Science A	3, 4, 5	INF 260/INF 260L Object-Oriented Programming I with laboratory	3 1
English Language/ Composition	3	ENG 101 College Writing	3
English Language/ Composition	4, 5	ENG 101 College Writing <b>AND</b> ENG 291 Advanced College Writing	3 3
English Literature/ Composition	3, 4, 5	ENG 200 Understanding Literature	3
Environmental Science	3, 4, 5	ENV 110 Introduction to Environmental Science and Issues	3
European History	3, 4, 5	HIS 100 History of Europe to 1713 <b>AND</b> HIS 101 History of Europe, 1713 to the Present	3 3
French Language and Culture	3	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	3
French Language and Culture	4	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	3
French Language and Culture	5	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	3
German Language and Culture	3	GER 201 Intermediate German I Students who continue their language study at NKU can receive credit for GER 101 Elementary German I and GER 102 Elementary German II by completing GER 202 Intermediate German II and receiving a grade of C- or better	3
German Language and Culture	4	GER 202 Intermediate German II Students who continue their language study at NKU can receive credit for GER 101 Elementary German I, GER 102 Elementary German II, and GER 201 Intermediate German I by completing a GER 300-level course with a grade of C- or better	3
German Language and Culture	5	GER 304 German Composition and Conversation Students who continue their language study at NKU can receive credit for GER 101 Elementary German I, GER 102 Elementary German II, GER 201 Intermediate German I, and GER 202 Intermediate German II by completing a 300-level course or higher with a grade of C- or better	3

Government and Politics – U.S.	3, 4, 5	PSC 100 American Politics	3
Government and Politics – Comp.	3, 4, 5	PSC 102 Comparative Politics	3
Human Geography	3, 4, 5	GEO 100 Global Viewpoints: Geography and the Human Landscape	3
Italian Language and Culture	3	ITA 201 Intermediate Italian I	3
Italian Language and Culture	4, 5	ITA 202 Intermediate Italian II	3
Japanese Language and Culture	3	JPN 201 Intermediate Japanese I Students who continue their language study at NKU can receive credit for JPN 101 Elementary Japanese I and JPN 102 Elementary Japanese II by completing JPN 202 Intermediate Japanese II and receiving a grade of C- or better.	3
Japanese Language and Culture	4, 5	JPN 202 Intermediate Japanese II	3
Latin: Virgil	3, 4, 5	LAT 101 Elementary Latin I	3
Macroeconomics	3, 4, 5	ECO 200 Principles of Macroeconomics	3
Microeconomics	3, 4, 5	ECO 201 Principles of Microeconomics	3
Music	3, 4, 5	MUS 122 Music Theory I <b>AND</b> MUS 124 Aural Skills I <b>AND</b> MUS 125 Aural Skills II	4
Physics B	3	PHY 110 Introduction to Physics with Laboratory	4
Physics B	4	PHY 211 General Physics with Lab I	5
Physics B	5	PHY 211 General Physics with Lab I <b>AND</b> PHY 213 General Physics with Lab II	10
Physics C Mechanical	3 or 4	PHY 211 General Physics with Laboratory I	5
Physics C Mechanical	5	PHY 211 General Physics with Laboratory I <b>OR</b> PHY 220 University Physics with Laboratory I	5 4
Physics C Electricity/Magnetism	3 or 4	PHY 213 General Physics with Laboratory II	5
Physics C Electricity/Magnetism	5	PHY 213 General Physics with Laboratory II <b>OR</b> PHY 222 University Physics with Laboratory II	5 4
Psychology	3, 4, 5	PSY 100 Introduction to Psychology	3
Spanish Language	3	SPI 201 Intermediate Spanish I Students who continue their language study at NKU can receive credit for SPI 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	3
Spanish Language	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 Language	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	3
Spanish Literature	3	SPI 201 Intermediate Spanish I Students who continue their language study at NKU can receive credit for SPI 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	3
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	3
Statistics	3, 4, 5	STA 212 Statistics for Business Applications I <b>OR</b> STA 205 Introduction to Statistical Methods <b>OR</b> STA 113 Introduction to Probability and Statistics	3
U.S. History	3, 4, 5	HIS 102 History of U.S. through 1877 <b>AND</b> HIS 103 History of U.S. since 1877	3 3
World History	3, 4, 5	HIS 108 World History to 1500 <b>AND</b> HIS 109 World History since 1500	3 3

## Advanced Standing Examination

Upon recommendation by the appropriate chair and with the approval of the appropriate dean, a currently enrolled student may receive advanced standing credit by passing an examination in a subject in which she or he has demonstrated exceptional ability. A student may obtain an application for the advanced standing examination from the registrar's office (Lucas Administrative Center 301). Students must follow the procedures printed on the application. There is an examination fee for each course in which a student takes an advanced standing examination. These examinations may be taken for a letter grade or pass/fail as determined by the department chair prior to testing. If a failing grade is earned, the course will not be posted to the student's transcript. If the examination is passed, the student's NKU transcript will indicate the class as advanced standing examination.

## 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. NKU students may earn up to 45 semester hours through general or subject matter examinations. 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.

- General Examinations – three tests are within the general examination portion of CLEP: humanities, natural science, and social science/history. For each test on which a student earns a score of at least 50, the student will be awarded 6 semester credit hours. Credit earned through these examinations is elective credit and does not satisfy general education requirements.

Examination	Minimum Score	Equivalent NKU Courses	Credit Hours
Humanities	50	HUM 100T - Elective Credit	3
Natural Science	50	SCI 100G - General Education Credit (no lab)	3
Social Science-History	50	SSHI 100T - Elective Credit	3

- Subject Examinations – 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 course(s). 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.

EXAMINATION	MINIMUM SCORE	EQUIVALENT NKU COURSES	SEMESTER CREDITS
American Government	50	PSC 100 American Politics	3
American Literature	50	ENG 208 Survey of American Literature I <b>AND</b> ENG 209 Survey of American Literature II	6
Analyzing and Interpreting Literature	50	ENG 200 Understanding Literature	3
Calculus	50	MAT 129 Calculus I	4
College Composition (English Composition with Essay)	50	ENG 101 College Writing	3
College Algebra	50	MAT 109 Algebra for College Students	3
College Mathematics	50	MAT 100T Elective Credit	3
Biology	50	BIO 120/BIO 120L Understanding the Living World with Lab	4
Chemistry (no lab credit awarded)	50	CHE 120 General Chemistry I <b>AND</b> CHE 121 General Chemistry II	6
English Literature	50	ENG 202 Survey of British Literature I <b>AND</b> ENG 203 Survey of British Literature II	6
Financial Accounting	50	ACC 200 Principles of Accounting I – Financial	3
French Language	50 - 59	FRE 101 Elementary French I <b>AND</b> FRE 102 Elementary French II Credits are awarded if student takes a 200-level FRE course and earns at least a B-	6
	60+	FRE 101 Elementary French I <b>AND</b> FRE 102 Elementary French II <b>AND</b> FRE 201 Intermediate French I <b>AND</b> FRE 202 Intermediate French II Credits are awarded if student takes a 300-level FRE course and earns at least a B-	12
German Language	50 - 59	GER 101 Elementary German I <b>AND</b> GER 102 Elementary German II Credits are awarded if student takes a 200-level GER course and earns at least a B-	6
	60+	GER 101 Elementary German I <b>AND</b> GER 102 Elementary German II <b>AND</b> GER 201 Intermediate German I <b>AND</b> GER 202 Intermediate German II Credits are awarded if student takes a 300-level GER course and earns at least a B-	12

Human Growth and Development	50	EDU 300 Human Growth and Development	3
Information Systems and Computer Applications	50	BIS 300T - Elective Transfer Credit	3
Introductory Business Law	50	BUS 230 Legal Environment	3
Introductory Psychology	50	PSY 100 Introduction to Psychology	3
Introductory Sociology	50	SOC 100 Introduction to Sociology	3
Pre-Calculus	50	MAT 119 Pre-Calculus Mathematics	3
Principles of Macroeconomics	50	ECO 200 Principles of Macroeconomics	3
Principles of Management	50	MGT 205 Business Management Principles	3
Principles of Marketing	50	MKT 305 Principles of Marketing	3
Principles of Microeconomics	50	ECO 201 Principles of Microeconomics	3
Spanish Language	50 - 56	SPI 101 Elementary Spanish I <b>AND</b> SPI 102 Elementary Spanish II Credits are awarded if student takes a 200-level SPI course and earns at least a B-	6
	57+	SPI 101 Elementary Spanish I <b>AND</b> SPI 102 Elementary Spanish II <b>AND</b> SPI 201 Intermediate Spanish I <b>AND</b> SPI 202 Intermediate Spanish II Credits are awarded if student takes a 300-level SPI course and earns at least a B-	12
U.S. History I: Early Colonization to 1877	50	HIS 102 History of the United States through 1877	3
U.S. History II: 1865 to Present	50	HIS 103 History of the United States since 1877	3
Western Civilization I: Ancient to 1648	50	HIS 100 History of Europe to 1713	3
Western Civilization II: 1648 to Present	50	HIS 101 History of Europe, 1713 to the Present	3

### 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. NKU awards credit for satisfactory performance in two areas, as listed below. NKU requires submission of an official score report.

EXAMINATION	MINIMUM SCORE	EQUIVALENT NKU COURSES	SEMESTER HOURS
A History of the Vietnam War	49	HIS 565 The Vietnam War	3
Astronomy	48	AST 100G	3
Art of the Western World	48+ Departmental Essay	ARTH 101 Survey of Western Art	3
The Civil War and Reconstruction	52	HIS 535 Civil War and Reconstruction	3
Here's to Your Health	48/400	BIO 125 Biological Perspective of Wellness	3
Human/Cultural Geography	54	GEO 100 Global Viewpoints on Geography and the Human Landscape	3
Principles of Statistics	48/400	STA 205 Introduction to Statistical Methods	3
Substance Abuse	49/400	HSR 340 Alcoholism: Issues and Intervention	3

### 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.

DISCIPLINE	ACCEPTABLE SCORE	COURSE	SEMESTER CREDIT HOURS
Biology (Subsidiary Level) (Higher Level)	4	BIO 120 Understanding the Living World	4
	5	BIO150/150L Introduction to Biology I with Laboratory	4
Chemistry (Subsidiary Level) (Higher Level)	5 or higher	CHE 102 Introduction to Chemistry <b>AND</b> one credit of chemistry lab	3 1
	5 or higher	CHE 120 General Chemistry I	3
		<b>AND</b> CHE 121 General Chemistry II	3

		(Credit for associated labs "CHE 120L: General Chemistry Laboratory I" and "CHE 121L: General Chemistry Laboratory II," 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.)	
Economics (Higher Level)	4 or higher	ECO 200 Principles of Macroeconomics <b>AND</b> ECO 201 Principles of Microeconomics	3 3
English (Higher Level)	4 or higher	ENG 101 College Writing <b>AND</b> ENG 291 Advanced College Writing	3 3
French (Subsidiary Level) (Higher Level)	4 or higher 4 or higher	FRE 101 Elementary French I FRE 101 Elementary French I <b>AND</b> FRE 102 Elementary French II	3 6
German (Subsidiary Level) (Higher Level)	4 or higher 4 or higher	GER 101 Elem. German I GER 101 Elem. German I <b>AND</b> GER 102 Elem. German II	3 6
History (Subsidiary Level) (Higher Level)	4 or 5 6 or 7	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) HIS 102 History of the United States through 1877 <b>AND</b> HIS 103 History of the United States since 1877	3 6
History-American (Subsidiary Level) (Higher Level)	4 or 5 6 or 7	HIS 102 History of the United States through 1877 <b>OR</b> HIS 103 History of the United States since 1877 (if student has already received credit for HIS 102) HIS 102 History of the United States through 1877 <b>AND</b> HIS 103 History of the United States since 1877	3 6
Mathematics (Higher Level)	4 or higher	MAT 129 Calculus I <b>AND</b> MAT 229 Calculus II	4 5
Physics (Subsidiary Level) (Higher Level)	4 5 or higher	PHY 211 General Physics with Laboratory I  PHY 211 <b>AND</b> PHY 213 General Physics I and II with Laboratory <b>OR</b> PHY 220 University Physics with Laboratory I	5 5 4
Psychology (Subsidiary Level) (Higher Level)	4 or higher 4 or higher	PSY 100 Introduction to Psychology  PSY 100 Introduction to Psychology	3 3
Spanish (Subsidiary Level) (Higher Level)	4 or higher 4 or higher	SPI 101 Elementary Spanish I SPI 101 Elementary Spanish I <b>AND</b> SPI 102 Elementary Spanish II	3 6

### Prior Learning Assessment via Portfolio Development

Through the prior learning assessment program, students may receive credit for the learning that has occurred through their military, career and non-academic experiences via portfolio development. A portfolio is a set of written documents that demonstrate experiential learning equivalent to the learning objectives of a specific course. Prior to development of a portfolio, each student must schedule a meeting with the Office of Educational Outreach to determine program eligibility. Eligible students must complete a noncredit, self-paced course prior to portfolio development. 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. Students may request up to 32 semester hours toward a bachelor's degree and 16 semester hours toward an associate degree. For more information about prior learning assessment via portfolio, e-mail [edoutreach@nku.edu](mailto: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 on Education, will

be considered for credit. A maximum of 32 semester credit hours may be earned. Students should submit appropriate documentation of military coursework to NKU's Office of Transfer Services.

### Vocational Articulation

Credit may be awarded to an applicant entering NKU in the program area of specialty upon completion of a postsecondary vocational program in the Northern Kentucky vocational region. For more information, contact the construction management department at 859-572-5440.

### American Council on Education Non-Collegiate Sponsored Instruction

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. A maximum of 32 semester hours toward a bachelor's degree and 16 semester hours toward an associate degree may be earned. 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 phoning 859-572-6056.



## Correspondence Courses

No more than 9 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://worldlanglit.nku/advising/webcape.php>) or in the Language Lab (LA 103) which will indicate their appropriate level. Students should go to LA 134 for the enrollment form for their indicated course. Students who are enrolling in their first language course at NKU who have prior experience in that language (other than French, German, or Spanish) should consult the Department of World Languages and Literatures (LA 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 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 lower-division 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 501.

Additional information regarding world language placement is available online (<http://worldlanglit.nku.edu/advising/placement.php>). Students who receive credit through AP or CLEP exams are still eligible for the World Language Incentive Program. The total 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 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 without 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, e-mail 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 class of each school term.

- 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

- 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, e-mail the registrar at registrar@nku.edu, or check the website (<http://registrar.nku.edu/students/ferpa.php>).

## Probation and Suspension

### Probation

- 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.
- When a student is placed on academic probation:
  - A registration hold is placed on the student's record, which prevents the student from registering for classes prior to meeting with an advisor.
  - 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.
  - The student will be allowed to take no more than 13 semester credit hours during fall and spring semester, no more than 6 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.
  - 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.
- A student will be removed from academic probation status if he or she achieves an overall GPA of at least 2.00.
- A student may remain on academic probation for a maximum of three semesters (the next three semesters that the student is enrolled after being placed on probation) if each semester he or she
  - Meets or exceeds the following cumulative GPA standards  
0.000 for 0-15 credits in courses numbered 100 and above  
1.250 for 16-30 credits in courses numbered 100 and above  
1.500 for 31-45 credits in courses numbered 100 and above  
1.750 for 46-59 credits in courses numbered 100 and above  
2.000 for 60+ credits in courses numbered 100 and above  
—OR—
  - Earns a fall or spring semester GPA of at least 2.25.

### Suspension

- A student on academic probation who fails to satisfy either 4(a) or 4(b) will be suspended.
- If after three semesters the student does not have an overall GPA of at least 2.00, the student will be suspended.

### First Suspension

- 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).
- After serving the period of suspension, a student may be reinstated or admitted to the university.
  - 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 the Academic Advising Resource Center, to discuss academic standing and future direction.
  - This meeting must occur by August 1 for fall semester, December 1 for spring semester, and May 1 for summer sessions.
- If the suspended student has remained out of school for more than 4 years, the student must complete and submit an application for re-admission to the university once reinstatement has been approved.
- 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

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

## 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/holds.php>).

## 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.

- Throughout their undergraduate careers, students are permitted no more than four opportunities to repeat courses for grade replacement.
  - 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 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 now transfers in credits but not grades, repeating an NKU course at another college or university will not impact the grade earned at NKU or the student's GPA. However, a student who fails an NKU course – or fails to perform at the level required to progress in a program – is allowed to retake it elsewhere. If performance is satisfactory and the course otherwise qualifies for transfer to NKU, the student is allowed to use it to satisfy an NKU requirement.
    - d. The repeat option cannot be invoked for any course previously passed on the student's academic record at the time any degree was awarded by NKU. Similarly, if transfer work was included as part of the hours used for an AAS degree and *D* and *F* grades were included on the record, the transfer work will not be reevaluated to eliminate these grades in the computation of the GPA even if the student declares a new catalog.
    - e. Discontinued courses cannot be repeated unless a new course covering the same content has been created to replace the discontinued course. Verification from the department chair is required before such a substitution is allowed. Under no circumstances is one course of different content allowed to substitute for another under the repeat policy.
  5. Policy exceptions:
    - a. For exceptions to the limitation on three attempts of a single course, the student must have the permission of the dean of the college offering the course. Students must have this permission before enrolling again for the course.
    - b. For exceptions to other provisions of this policy, the student must petition, in writing, the dean of the college where the student's

major is housed. The student must have the dean's permission before enrolling in a repeated course that requires a policy exception.

## Smoking Policy

NKU is designated as nonsmoking in all of the following areas: all highly populated pedestrian areas on the Highland Heights campus; within 30 feet of all NKU satellite campus facilities; within a 30-foot perimeter of all campus facilities unless otherwise stipulated as a smoking area; inside all university buildings and vehicles; inside the residential village facilities and outdoors within 30 feet of all residential facilities and common pedestrian areas within the residential village unless otherwise stipulated; and within 30 feet of all athletics and intramural facilities. In addition, the sale of tobacco products and the free distribution of tobacco products are prohibited on the campus. The complete policy and information on where smoking is permitted can be found at <http://wellness.nku.edu/docs/2006NKUCleanAirAct-f.pdf>.

## 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/codes\\_and\\_policies/codeofstudent\\_rights](http://deanofstudents.nku.edu/codes_and_policies/codeofstudent_rights)).

## Transcript Availability

Transcripts of NKU coursework are available upon request. Students have a variety of options for requesting a transcript: in person, via fax, or via myNKU. 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 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 (1-2 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.

## Transcripts Received 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 or AP credit should submit their official transcripts to the Office of the Registrar (Lucas Administrative Center 301).
5. Only coursework from a regionally accredited institution or institution with an approved articulation agreement will be considered for awarding of transfer credit.
6. Effective fall 2009, 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 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 remedial (or developmental) in content will not be considered for credit hours.
9. Students may be required to take a placement test in English, mathematics or reading if evidence of college readiness is not demonstrated.
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 postbaccalaureate students is subject to departmental approval.

**Note:** *Students who completed coursework more than five years ago should plan on submitting course descriptions or a catalog from that year in order to expedite the evaluation process.*

## 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 registrar and the appropriate dean.
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 last week of classes. No student may withdraw from all classes during the week preceding final exams or during the week of final exams.
2. To withdraw, the student should complete the NKU formal withdrawal request form ([http://registrar.nku.edu/docs/Withdrawal\\_Form.pdf](http://registrar.nku.edu/docs/Withdrawal_Form.pdf)) available online.
3. The Office of the Registrar will verify that the form is complete, determine the date of withdrawal, and process the withdrawal.
4. Grades
  - a. Weeks 1 through 3 or equivalent: if a student withdraws prior to the end of the 3rd week of the semester or its equivalent, the transcript will not reflect that the student was enrolled in the classes.
  - b. Weeks 4 through 10 or equivalent: if the student withdraws after the 3rd 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.
  - c. Weeks 11 through 14 or equivalent: if the student withdraws after the 10th week and before the end of the week prior to the last week of classes, the student will receive a grade of *W* in each course he or she is passing and a grade of *F* for each course he or she is not passing.
  - d. The specific dates for sections (a) – (c) can be found in the online registration guide and the online academic calendar.
  - e. EXCEPTION: In cases of academic dishonesty, the instructor will determine the student's grade.
5. Other responsibilities
  - a. A student withdrawing from the university should check with the bursar's office to determine the financial implications of the withdrawal and to settle any money owed to the university or to the student.
  - b. 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.

- c. If the student leaving the university lives in university housing, he or she should contact the housing office and complete a contract termination form. 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.
  - a. 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.
  - b. 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
  - c. 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 the bursar's office.

# ACADEMIC SUPPORT

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## Advising

### NKU's Academic Advising Philosophy

Academic advising at NKU is an integral part of the learning process. As such, academic advising is a collective 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.

- Students are often unaware of the demands and expectations of the university and therefore need to learn the culture of higher education. Academic advising plays a key role in their understanding of the collegiate environment.
- 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 all students are unique and enter the learning process at varying points and learn at different rates and through a variety of methods.
- At the heart of all academic advising is the development of an educational plan that will enhance each student's intellectual and personal growth, including selection of classes to satisfy degree requirements in an efficient and effective manner. While advisors help students define their educational goals, the primary responsibility for decision-making rests with the student.

### Primary Goals and Objectives of Academic Advising

A primary goal of academic advising is to help students define and develop educational and career goals that are consistent with their personal values, interests, and talents. During this process, it is desirable that students develop a rapport with their advisors that will enhance their academic performance. It is expected that students will become familiar with and utilize university resources that support their educational development and that they will develop an understanding of university policies, procedures, and requirements.

The desired outcome of academic advising 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 may be less reliant on advisors for such information but will continue to consult advisors or designated faculty concerning university requirements, graduate school admission, or career opportunities.

### Students' Responsibilities in the Advising Process

Students should:

- Give careful thought to their academic and career goals and openly share this information with their advisor.
- Take responsibility for their learning by reviewing the university catalog, the registration guide, and their major/degree requirements and by becoming fully aware of relevant university policies, procedures, and requirements.
- To ensure quality time, make an official advising appointment according to their advisor's scheduled office hours well in advance of their designated registration time. If they are unable to keep a scheduled advising appointment, students should remember to notify their advisor in advance.
- Prepare a list of questions before meeting with their advisor and have a tentative written list of classes for which they would like to register and put the courses in their registration cart.
- Ask questions! If they are unclear about a policy or procedure, they should get clarification from their advisor.
- Know the academic calendar and be aware of important deadlines. This information is always published in the registration guide.
- Know their academic requirements and keep track of courses completed by using major, minor, area of concentration, and general education checklists or by reviewing a copy of their degree audit.
- Contact their advisor at times other than the official advising/registration periods, if needed. It is important for students to inform their advisor about any academic or personal problems as soon as they arise, because their advisor can refer them to any needed university resources.
- Bear in mind that adding or dropping classes without consulting their advisor may result in failure to satisfy degree requirements and may also delay graduation.
- Make an advising file and retain in it copies of all their university documents in case any questions arise.
- Accept responsibility for their education by making their own decisions. Advisors will provide students with advice and options, but students must choose. The students' goal is to assume primary responsibility for educational planning, course scheduling, and the successful completion of all graduation requirements.

### Advisors' Responsibilities in the Advising Process

Advisors should:

- Demonstrate a genuine interest in students' success by helping them develop realistic educational goals.
- Be accessible and responsive to students' needs.
- Review and update each student's academic record prior to or during advising appointment.
- Be knowledgeable about university policies and procedures and all academic requirements related to general studies, the major, minors, areas of concentration, articulation agreements in selected programs, remote access registration procedures, and all general graduation requirements for each advisee.
- Know the academic calendar and be fully aware of important deadlines.
- Know how to access key student information on the student information system, especially on the course degree audit system.
- Assist students in academic planning by explaining information about the major, general studies, minor, area of concentration, or other degree requirements. Advisors also should make students aware of prerequisites, course sequencing, and general information about course content and appropriate course load.
- As the advising relationship develops, assist students in developing decision-making skills and encourage them to take responsibility for their decisions.
- Learn about university resources and support services available to students and make appropriate referrals when needed.
- Encourage student participation in student organizations at the academic program, department, and university-wide levels.
- Be available to provide career advice concerning internships and cooperative work experiences and to recommend practitioners or faculty colleagues who can give students additional information about their field of interest.
- Participate in university-sponsored professional development sessions for advisors as needed to stay current with policies, procedures, and requirements.

## 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 Academic Advising Resource Center 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. They MUST next receive approval from their academic dean's office. NO EXCEPTIONS. Students advised by the AARC must obtain "dean's approval" from AARC.

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

**COLLEGE OF ARTS AND SCIENCES** – The following students are required to meet with an advisor:

- Anthropology: all students.
- Art: all freshmen and new majors.
- Biological Sciences: all students.
- Chemistry: all freshmen, sophomores, and new majors.
- English: all freshmen and new majors.
- History and Geography: all students.
- Mathematics: all students.
- Music: all students.
- Philosophy: all freshmen and new majors.
- Physics and Geology: all students.
- Political Science: all freshmen.
- Psychology: all freshmen and sophomores.
- Sociology: all freshmen and new majors.
- Theatre and Dance: all students.
- Undeclared: all students are required to meet with an advisor in the Arts and Sciences' Advising Center.
- World Languages and Literatures: all students.

**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 majors.

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

- Business Informatics: all students.
- Communication: all freshmen and sophomores.
- Computer Science and Computer Information Technology: all freshmen.
- Undeclared: all students.

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

- Nursing students: all pre-major undergraduates.
- 4-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.

## Academic Advising Resource Center (AARC)

**Location:** Founders Hall 405A

**Telephone:** 859-572-6900

**Fax:** 859-572-6989

**Web Address:** <http://advising.nku.edu>

**Hours:** Monday - Friday, 8:15 a.m. - 4:30 p.m.

Evening hours are posted each semester

**Director:** David Emery

**Assistant Director:** Mary Huening

AARC provides academic advising services for some 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. Nondegree-seeking students may also request to meet with an advisor in AARC. AARC advisors assist students to 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 schedule courses preparing them for these programs. Other undeclared students want advice about which programs might be best suited to their academic strengths and weaknesses, personal interests, and career objectives. AARC advises 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 can 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 AARC. Advisors in AARC assist these students with timely completion of pre-college curriculum requirements and discuss with them avenues for academic success.

## Advising Services

All 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 AARC each semester before registering for classes. During advising appointments, AARC advisors provide academic advising that is sensitive to students' individual needs. Specifically, AARC advisors assist students in the following ways:

1. Discuss students' academic progress.
2. Teach students 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 to 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.

In addition to meeting students' advising needs, the director and assistant director provide 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; and registration.

## Bookstore

**Location:** University Center Plaza Level (entrance faces the plaza)

**Telephone:** 859-572-5142

**Web Address:** <http://www.nku.bkstr.com/>

**Hours:**

Monday - Thursday 8:30 a.m. - 6:30 p.m.

Friday 8:30 a.m. - 4:30 p.m.

Saturday 11:00 a.m. - 2:00 p.m.

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

Course materials, new and used books, eBooks, and book rentals are available in the store and online. Rented textbooks are due back to the store by the last day of finals. Course materials, new and used books, eBooks, and rented books can be returned for a full refund within 7 days of the first day of classes. To obtain a refund, the return must be accompanied by the original sales receipt. Refunds will also be granted for a period beyond 7 days, to accommodate schedule changes, if proof of the dropped course is presented with the receipt. The bookstore buys books back every day.

In addition to handling course materials and books, the bookstore sells popular books, memorabilia, clothing that includes the NKU insignia, stationery goods, and a variety of other products of interest to NKU students.

## Information Technology

**Location:** Lucas Administrative Center

**Telephone:** 859-572-5272

**Web Address:** <http://it.nku.edu>

NKU's Office of Information Technology is committed to supporting student success. IT provides a variety of services for students, all of which are described on the IT website. All students are urged to read The Prospective Student Guide (<http://it.nku.edu/students/prospective>), which answers common IT-related questions about students' academic experience, administrative experience, student life, and IT services and fees. IT services are described below.

### 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 be changed at least every 90 days.

### 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. Also, connected to the email account is an online network storage location. Students can store and share files in this location.

### Blackboard

Blackboard is NKU's online learning system. Faculty often post course syllabuses, assignments, reading material, and other course-related materials on Blackboard for student access. Students are often expected to submit course assignments via Blackboard. IT offers training in the use of Blackboard.

### Computer Labs

IT provides several computer labs in buildings across the campus. Also, many academic departments have computer labs for their students. A full listing of lab locations is available at <http://it.nku.edu/students/labs>.

## Printing

Each semester, full-time students are allowed to print about 150 pages of black-and-white copy at no charge. Students who need to print more than the free print allowance may add money to their All Card. Additional information is available at <http://it.nku.edu/students/printing>.

## Help Desk

The Help Desk, a service of the IT Service Center, is available 24/7 and can be reached by calling 859-572-6911. Online instant messaging assistance is available by clicking on the "CHAT" button at <http://it.nku.edu/ask.php>.

## 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 at <http://it.nku.edu/students/networks>.

## Antivirus Software

IT wants to ensure that all student computers are safe from viruses, so it offers free antivirus software. Information about obtaining the software is available at <http://antivirus.nku.edu>.

## Discounts for Students

Vendors offer discounts to students, so those who are buying a Dell laptop, MacBook, iPad, or Microsoft software can do so using their student discount. More information is available at <http://it.nku.edu/students/resources.php>, which has links to the vendors' websites to make purchases.

## Technology Training

IT offers both hands-on and online tutorials on a variety of technology topics, such as Blackboard and Microsoft products. Tutorials and training resources are available at [http://it.nku.edu/cite/student\\_tutorials](http://it.nku.edu/cite/student_tutorials). IT also offers training to help students with the registration process. Tutorials and training resources about myNKU, the registration system, are available at <http://it.nku.edu/mynku/help.php>.

## 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 at <http://it.nku.edu/itsecurity/policies.php>.

## IT Service Center

With locations in Steely Library 220 and Founders Hall 220, the Information Technology Service Center is designed to meet the campus's technology needs through customer-centered technology assistance and state-of-the-art technology. The ITSC provides NKU students, faculty, and staff the opportunity to:

- Get personalized assistance with their technology devices in person or by phone, chat, or text.
- Provide assistance with software-based technology questions.
- Use media equipment for a project or event.

The ITSC is available 24/7 via phone at 859-572-6911 or chat. For face-to-face, personal assistance, locations can be visited Monday through Friday between 8:15 a.m. and 5:30 p.m.



## Learning Assistance Programs

**Location:** University Center 170

**Telephone:** 859-572-5475

**Fax:** 859-572-1905

**E-mail Address:** [laplearn@nku.edu](mailto:laplearn@nku.edu)

**Web Address:** <http://lap.nku.edu>

**Director:** Diane Williams

### Program Coordinators:

Developmental Mathematics: Janis Broering

Developmental Literacy: Wanda Crawford

Writing Center and Academic Tutoring: Paul Ellis

Supplemental Instruction: Karen Jenkins

Math Center and Success Skills Tutoring: Jered Wasburn-Moses

**Full-time faculty:** Janalynn Anderson, Janis Broering, Patricia Connelly, Wanda Crawford, Paul Ellis, Barbara Hamilton, Karen Jenkins, Gretchen Kauscher, Elizabeth McMillan-McCartney, Patricia Schumacher, Dempsey Smith, Judith Taylor, Jered Wasburn-Moses, Diane 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 consult the website (<http://lap.nku.edu/tutoring>).

### Math Center

The Math Center provides FREE tutoring to all NKU students interested in improving their understanding of course content and key concepts in mathematics and statistics courses. To learn more about the service and how to schedule an appointment, students should visit the website (<http://lap.nku.edu/mathcenter>).

### Writing Center

The Writing Center provides FREE assistance and support for students with college writing tasks assigned in any course: essays, reports, research papers, etc. Writing Center consultants can guide and advise students through the entire writing process. To learn more about the service and how to schedule an appointment, students should visit the website (<http://lap.nku.edu/writingcenter>).

### Success Skills Tutoring

Success Skills Tutoring provides FREE, one-on-one peer assistance with many important college and life success skills, including (but not limited to) time management, effective study habits, test-taking strategies, note-taking tips, and financial literacy. To learn more about the service and how to schedule an appointment, students should visit the website (<http://lap.nku.edu/success>).

### Supplemental Instruction

Supplemental Instruction provides FREE collaborative peer review sessions for some sections of difficult and challenging courses. SI leaders attend all classes and conduct weekly review sessions to help students with mastering content as well as developing learning strategies that can be applied to other courses. Students are encouraged to attend review sessions often. More information about SI is available on the web (<http://lap.nku.edu/si>).

## Developmental Education

The Developmental Mathematics and Developmental Literacy Programs help underprepared students develop the skills and attitudes necessary for success in their college-level courses. The programs enable NKU to maintain high standards and at the same time make NKU accessible to students who do not meet the Kentucky Council on Postsecondary Education college readiness standards. Placement into developmental courses is based on ACT scores, SAT scores, and COMPASS and KYOTE placement test results. More information on college readiness standards and placement testing is available in the Placement Testing section of Admissions and Enrollment and on the web (<http://lap.nku.edu/developmental>).

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. The following developmental courses are available:

### Developmental Literacy Courses

ENGD 080: Writing Lab	1 credit
ENGD 090: Writing Workshop	3 credits
RDG 091: Reading Workshop	3 credits
RDG 110: Critical Reading	3 credits

### Developmental Mathematics Courses

MAHD 090: Basic Mathematical Skills	3 credits
MAHD 091: Elementary Geometry	3 credits
MAHD 094: Essential Algebra (Part III)	1 credit
MAHD 095: Essential Algebra	4 credits
MAHD 099: Intermediate Algebra	3 credits

Students must complete their developmental courses prior to completing 45 credit hours at the 100 level or above. Students who do not remove their academic deficiencies by the time they complete 45 credit hours will not be permitted to continue enrollment at NKU. Students may take courses at another institution to meet their academic deficiencies and then return to NKU to finish their degree.

**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. - midnight

Friday: 7:30 a.m. - 5:30 p.m.

Saturday: 11:00 a.m. - 5:00 p.m.

Sunday: 12:30 p.m. - midnight

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 e-mail, by chat, or by appointment); classroom instruction and embedded librarians via Blackboard courses; web-based research guides and tutorials;

SourceFinder (a document delivery service for locating 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. Farris 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.

## Student Achievement Center

**Location:** University Center 120

**Telephone:** 859-572-7527

**Fax:** 859-572-5336

**E-mail Address:** sac@nku.edu

**Web Addresses:** <http://sac.nku.edu/>

**Director:** Susan Mospens

**Other Key Personnel:**

Associate Director for Student Support Services: Joyce Couch

Associate Director for Student Achievement Center: Willa Green

The programs of the Student Achievement Center help students to stay in school and graduate in a timely fashion. Three programs are designed to help students achieve their dream of earning a college degree.

At the Student Achievement Center (SAC) you have access to resources, services and opportunities that address your specific needs.

- Drop in to meet with an Early Alert Specialist to explore options for resolving a school or financial problem,
- Apply to be a Student Support Services Scholar and have a home on campus where staff know your name and are there to strategize and celebrate from your first day at NKU to your last.
- Find a friend and advocate for student parents in the LEAP program. You must qualify for KTAP.

## Early Alert

Early Alert is for students experiencing an academic, financial, or personal challenge. The Early Alert team understands that life happens. They will help a student get back on track with advice about campus resources and how to set priorities that will minimize future problems. Students can call 859-572-7527 to schedule an appointment or be referred by a faculty or staff member.

Early Alert is there for you when you face academic, financial, or personal challenge. We understand that life happens and can help you get back on track. Learn how to navigate resources on campus, clarify your priorities, and minimize future problems. Stop in the week before classes start and borrow a textbook. Ask a financial question on our website.

<http://financialfitness.nku.edu/>. Students can schedule an appointment (859-572-7527) or be referred by a faculty or staff member.

## Learning Experience and Parenting (LEAP)

LEAP is the hub for student parents enrolled in KTAP through the Commonwealth of Kentucky. As a student parent, LEAP is your partner in successfully juggling school, work, and parenthood. You will have access to campus resources, assistance with student employment, and an ally in navigating the KTAP system. Contact the Student Achievement Center (859-572-7527) to schedule an appointment, or be referred by a KTAP case manager.

## Student Support Services

Student Support Services is for you if you're a first generation college student... that means neither of your parents earned a bachelor's degree. You have to apply to be an SSS Scholar. As a Scholar you have a home on campus where SSS staff mentor, advise, support, and challenge you to be your best. You have a network of students and staff who know your name and will strategize and celebrate with you from your first day at NKU until your last on graduation day. SSS is funded through a federal grant from the U. S. Department of Education.

## University Connect and Persist

**Location:** University Center 330

**Telephone:** 859-572-7702

**E-mail Address:** [ucap@nku.edu](mailto:ucap@nku.edu)

**Web Address:** <http://ucap.nku.edu>

**Director:** Peg Adams

**Other Key Personnel:**

Senior Analyst for Co-Curricular Assessment & Research, Division of Student Affairs: Ryan Padgett, Ph.D.

Networking and campus engagement are key to student success. University Connect and Persist is an overarching retention initiative that encourages and facilitates student connections to the rich array of co-curricular programs and services on campus. Staff and faculty partner with students, helping them to identify areas of interest and establish academic and personal goals. Students are then guided through a process of building customized, proactive, wrap-around support networks that will help them persist, succeed, and graduate from NKU. The goals of UCAP are: (1) to identify students who will most benefit from proactive support networks; (2) to support staff and faculty in their work with students; and (3) to empower students to build customized and proactive support networks that will facilitate a holistic educational experience and prepare them for life after graduation.

# STUDENT ENRICHMENT AND SERVICES

## African American Student Affairs

**Location:** Student Union 309

**Telephone:** 859-572-6684

**Fax:** 859-572-6161

**E-mail Address:** aasa@nku.edu

**Web Address:** <http://aasa.nku.edu/>

**Director:** Dannie Moore

**Other Key Personnel:**

Assistant Director of African American Student Affairs: Tracy Stokes  
 Coordinator of African American Student Affairs: Deborah Strahorn  
 Administrative Secretary: Gloria Golden

The Office of African American Student Affairs (AASA) 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.

AASA provides unique programming and services which will cultivate opportunities to engage with faculty, staff and alumni, develop leadership skills, and celebrate African American culture. Students are encouraged to join the AASA in celebrating African American cultural heritage through events such as a diversity speaker series, Kwanzaa, Martin Luther King Jr. Commemoration, Black History Month, Soul Food Fest, and an African American Student Recognition Ceremony. AASA also takes pleasure in sponsoring Sherehe, a celebration to honor African American graduates, marking the end of a successful college journey and the beginning of a promising career.

The office's signature program, NKU R.O.C.K.S. (Responsibility, Opportunity, Community, Knowledge, Success), offers support to a select group of incoming freshmen and assists with transition from high school to college. The program begins with a five-day residential orientation consisting of academic success workshops, team-building exercises, peer mentoring, student/faculty networking opportunities, and leadership skills development. The program continues to support and encourage students during their sophomore, junior, and senior years through enhanced academic support; enrichment and leadership activities including undergraduate research opportunities; graduate school preparation; internships; cooperative- and service-learning experiences; and study abroad opportunities. In addition, the AASA works closely with campus partners such as the Student Achievement Center, Career Development, New Student Orientation and Parent Programs, Student Life, and the Office of Financial Assistance to facilitate and ensure students' academic success.

## All Card (ID card)

**Location:** Student Union 120

**Telephone:** 859-572-6016

**Web Address:** <http://allcard.nku.edu>

**Director:** Ward Wenstrup

The ALL CARD is the official identification card for NKU. It is imprinted with a student's photograph and an assigned ID number. The ALL CARD allows students to be recognized as members of the university community. It also enables them to enjoy discounts and gain access to services and activities throughout 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 can then enjoy convenience and savings at drink vending machines (10 percent discount), campus dining locations (6 percent discount), copiers (50 percent discount), and laundry (discounted). Students can also use this account to make purchases at the NKU Bookstore, snack vending machines, The Bank of Kentucky Center concessions, and the Student Union game room. The ALL CARD can also be used to pay for computer lab printing, NKU parking permits and fines, Health, Counseling & Prevention Services, and Steely Library fines. More information is available at <http://allcard.nku.edu/>.

## Alumni Programs

**Location:** 421 Johns Hill Road

**Telephone:** 859-572-5486

**E-mail Address:** [alumni@nku.edu](mailto:alumni@nku.edu)

**Web Address:** <http://alumniconnect.nku.edu/>

**Director:** Deidra Fajack

**Other Key Personnel:**

Assistant Director: Carol Beirne

Program Coordinator: Gina Hemsath

Director of Alumni Publications: Brent Donaldson

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 is composed of 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 world 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, e-mail, 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*, 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 Lecture Series, and other special events.
- Opportunity to take advantage of services provided by the Career Development Center.
- 10 percent discount on many items in the NKU Bookstore, excluding textbooks and computers.
- 15 percent discount on courses offered through NKU Community Connection.
- 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.

## 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 section titled Student Life. Others are sponsored by the units described here.

### 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' 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. More information about the digitorium is available on the web (<http://informatics.nku.edu/building>).

### 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 Miller ([millera@nku.edu](mailto:millera@nku.edu)), coordinator of creative writing, or Robert Wallace ([wallacer@nku.edu](mailto:wallacer@nku.edu)), professor of English.

### 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 (room 409) has showings every Monday at noon and on special Fridays 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://math.nku.edu/news\\_events/sehnertlecture.php](http://math.nku.edu/news_events/sehnertlecture.php)).

### Theatrical Performances

During the fall and spring semesters, the NKU Department of Theatre and Dance mounts 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 on the web ([http://theatre.nku.edu/Box\\_Office/Fine\\_Arts\\_Box\\_Office.php](http://theatre.nku.edu/Box_Office/Fine_Arts_Box_Office.php)).

## Athletics

**Location:** The Bank of Kentucky Center 133

**Telephone:** 859-572-5193

**Fax:** 859-572-6089

**E-mail Address:** [athletics@nku.edu](mailto:athletics@nku.edu)

**Web Address:** <http://www.nkunorse.com>

**Director:** Scott Eaton

**Other Key Personnel:**

Senior Associate Athletic Director for External Operations: Kurt Moeller

Associate Athletic Director for Administration and Academics / Senior

Woman Administrator: Kathy Steffen

Associate Athletic Director for Operations and Event Management:

Chris Hafling

Associate Athletic Director for Compliance and Student-Athlete Services: Chrissy Soards

Associate Athletic Director for Sports Medicine and Risk Management: Molly Hutson

Sports Information / Media Relations Director: Don Owen

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, 8 for men (baseball, basketball, cross country, golf, indoor and outdoor track & field, soccer, and tennis,) and 9 for women (basketball, cross country, golf, indoor and outdoor track & field, soccer, softball, tennis, and volleyball). In addition, the department has a student athletic training program, co-ed cheerleading team, a dance team, and a pep band, and it 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, located on campus, opened in the fall of 2008 and 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 TANK (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 show their valid NKU All Card to the driver 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>).

## Campus Recreation

**Location:** Albright Health Center 104

**Telephone:** 859-572-1964

**Fax:** 859-572-6090

**E-mail Address:** [campusrec@nku.edu](mailto:campusrec@nku.edu)

**Web Address:** <http://campusrec.nku.edu>

**Director:** Matthew W. Hackett

### **Other Key Personnel:**

Assistant Director for Facilities: Jennifer Hilvert

Assistant Director for Programs: Jill Wood

Coordinator for Intramural Sports: Jeremy Chipman

Coordinator for Aquatics: Hayley North

Coordinator for Fitness: Angela Aber

Make friends, have fun, and get involved! The Campus Recreation Center is the place to be for fitness, sports, and socializing day or night. Whether it's playing basketball, running on a treadmill, 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. All registered NKU students are automatically members of the Campus Recreation Center and may also purchase supplemental or family recreation center memberships.

Options abound at the Campus Recreation Center: students can play on intramural sports teams; relieve stress with a yagalates class in the Norse fitness program; get involved and join sports club teams as they compete and travel to other schools; and achieve fitness goals by working with a personal trainer through the personal training program. The goal of the Campus Recreation Center is to enrich the lives of the university community – students, faculty, and staff – through physical, mental, and social development. We want everyone in the campus community to enjoy a healthy lifestyle. Recre-

ation facilities and programs add greatly to the NKU experience. A valid NKU All Card is all that is needed to get started.

## Career Services

**Location:** University Center 305

**Telephone:** 859-572-5680

**Fax:** 859-572-6996

**E-mail Address:** [cdc@nku.edu](mailto:cdc@nku.edu)

**Web Address:** <http://cdc.nku.edu>

**Director:** Bill Froude

### **Other Key Personnel:**

Associate Director for Student Services & Programs: Shirl Short

Associate Director for Employer Relations & Recruitment Services:

Juliane Stockman

Career Advisor and Co-op Manager: Amanda Meeker

Career Advisor: Jennifer Richmond

Data & Assessment Coordinator: Anna Sharp Elliott

Administrative Secretary: Lisa Thams

The Career Development Center (CDC) offers an integrated program of services that emphasizes the developmental nature of career decision-making: self-exploration services, world-of-work preparation, job-searching skill development, and career-transition assistance. These services are available to NKU students and alumni and may include career counseling, résumé assistance, job-search coaching, and interview preparation. The CDC also offers the CEP 101 Career Planning course for students who are undecided about their major or career choice.

The CDC is the university's liaison to area corporations and organizations, inviting these employers for on-campus interviewing, job fairs, and other events. Employers are encouraged to post co-op, internship, and full-time positions on the CDC's Norse Recruiting online job database. The CDC 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.

## Dean of Students

**Location:** Student Union 301

**Telephone:** 859-572-5147

**Fax:** 859-572-6173

**E-mail Address:** [deanstudents@nku.edu](mailto:deanstudents@nku.edu)

**Web Address:** <http://deanofstudents.nku.edu/>

**Dean:** Jeffrey N. Waple

### **Other Key Personnel:**

Associate Dean of Students: 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 services, programs, 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 provides leadership and supervision for African American Student Affairs, Campus Recreation, Latino Student Affairs, New Student Orientation and Parent Programs, Student Government Association, Student Life (Greek Life, Student Organizations, Leadership Development, Activities Programming Board, Student Union and University Center, and University Housing). The Dean of Students also serves as the University's Chief Conduct Officer, 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 ombudsman: 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. 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 Policy. For a complete list of policies and procedures maintained by the Dean of Students Office, please visit our website at: [http://deanofstudents.nku.edu/codes\\_and\\_policies/policies\\_guidelines/codes.php](http://deanofstudents.nku.edu/codes_and_policies/policies_guidelines/codes.php)

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

## Dining Services

**Location:** Student Union 116  
**Telephone:** 859-572-5212  
**Fax:** 859-572-6478  
**E-mail Address:** [chartwells@nku.edu](mailto:chartwells@nku.edu)  
**Web Address:** <http://www.dineoncampus.com/nku>  
**Director:** Andy Meeks  
**Other Key Personnel:**  
 Retail Director: Sarah Davis  
 Residential Director: Nicole Arvan  
 Northern Class Catering Director: Rob Sanz

NKU dining services provides a variety of exciting dining experiences that are value-oriented for college students. The 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.

## Disability Services

**Location:** University Center 101  
**Telephone:** 859-572-6373  
**Fax:** 859-572-5874  
**E-mail Address:** [disability@nku.edu](mailto:disability@nku.edu)  
**Web Address:** <http://disability.nku.edu>  
**Director:** Vacant  
**Other Key Personnel:**  
 Assistant Director: Cindy Knox

Disability 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 Services to receive reasonable academic accommodations. NKU also provides tutorial services, developmental classes, writing center, math lab, speech lab, and computer labs for all students.

## Early Childhood Center

**Location:** Mathematics Education Psychology Center 147  
**Telephone:** 859-572-6338  
**Fax:** 859-572-1941  
**E-mail Address:** [ecc@nku.edu](mailto:ecc@nku.edu)  
**Web Address:** <http://earlychildhood.nku.edu/>  
**Director:** Melanie Caldwell  
**Other Key Personnel:**  
 Office Manager: Julie Christmann

Throughout the calendar year, the Early Childhood Center provides high-quality childcare and preschool education for children ages 1 through 5. The services are available for children of NKU students, staff, faculty, and alumni as well as members of the northern Kentucky community. During June and July, the center also offers a summer enrichment program for children ages 6 through 14. The center is open Monday through Friday from 7 a.m. to 6 p.m. Each semester, the Early Childhood Center offers employment to a number of NKU students pursuing degrees in education and other human services fields.

## Health, Counseling, and Prevention Services

**Location:** University Center 440  
**Telephone:** 859-572-5650  
**Fax:** 859-572-5615  
**E-mail Address:** [hcp@nku.edu](mailto:hcp@nku.edu)  
**Web Address:** <http://hcp.nku.edu/>  
**Director:** Barbara J. Sween

Health, Counseling, and Prevention Services' staff 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 and group treatment options are available. Health, Counseling, and Prevention Services' 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. Information on student health insurance may be obtained through the Office of Health, Counseling, and Prevention Services.

## Housing

**Location:** Norse Commons 101  
**Telephone:** 859-572-5676  
**Fax:** 859-572-6099  
**E-mail Address:** [housing@nku.edu](mailto:housing@nku.edu)  
**Web Address:** <http://housing.nku.edu>  
**Interim Director:** Arnie Slaughter  
**Other Key Personnel:**

Associate Director for Residential Life: Ann James  
 Housing Operations Coordinator: Cathy Carson

University Housing provides housing services for single students who live on campus during the school year. Unless qualifying for an exemption, new freshman students are required to live on campus. 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

1,850 students in on-campus housing. The Association of Campus Residents (ACR) 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 are posted online. One bill covers rent, utilities (electricity, water, and sewage), local phone service, 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.

## Latino Student Affairs

**Location:** Student Union 311, 313, 315

**Telephone:** 859-572-6013

**Fax:** 859-572-1576

**E-mail Address:** maldonadod1@nku.edu

**Web Address:** <http://latino.nku.edu/>

**Director:** Leo Calderon

**Other Key Personnel:**

Secretary: Diane Maldonado

The Office of Latino Student Affairs coordinates academic, cultural, and social activities with the World Languages and Literature Department, African American Student Affairs, the Honors program, Latino Institute for Excellence, and other organizations. The office also offers a mentoring program and a section of University 101 for Latino students. The office has developed strong partnerships with Latino/a organizations in Kentucky and Ohio. The Office of Latino Student Affairs serves as a consultant to businesses, K-12 educators, and public service agencies and is a bilingual resource for NKU.

## Lost and Found

**Location:** Information desk on the second floor of the Student Union

**Telephone:** 859-572-6588

People who lose an item on campus should initially check for the item in the location where it was most likely lost, that is, the last place the person recalls having it. If the item is not there, the person should check the information desk on the second floor of the Student Union. This location is the "official" lost and found for the campus. Items turned in there are retained for 6 weeks.

## Norse A!ert

The university has partnered with First Call 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 about Norse A!ert is available online (<http://norsealert.nku.edu>).

## Ombuds Services

**Location:** Student Union 301

**Telephone:** 859-572-5771

**Fax:** 859-572-6173

**E-mail Address:** [meiers@nku.edu](mailto:meiers@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. Students may contact the ombuds officer, Stephen A. Meier, in Student Union 301, or 859-572-5771, or by e-mail ([meiers@nku.edu](mailto:meiers@nku.edu)). Student comments and suggestions regarding all facets of the university are welcomed.

## Parking

**Location:** Welcome Center

**Telephone:** 859-572-5505

**Fax:** 859-572-6902

**E-mail Address:** [parkingservices@nku.edu](mailto:parkingservices@nku.edu)

**Web Address:** <http://parking.nku.edu>

**Supervisor:** (vacant)

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. 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. A replacement permit may be obtained at no charge to the patron.

## Police Department

**Office:** University Police

**Location:** 419 Johns Hill Road

**Telephone:** 859-572-5500

**Fax:** 859-572-6991

**E-mail Address:** [willisj2@nku.edu](mailto:willisj2@nku.edu)

**Web Address:** <http://dps.nku.edu/>

**Police Chief:** Jason G. Willis

**Other Key Personnel:**

Assistant Chief: Lt. Col. Bobby Wince

Captain: Bryan Allen

Sergeant: Matthew Bunning

Sergeant: John Gaffin

Sergeant: Will Love

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 hours a day, 7 days a week 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 on the web.

## Registrar

**Location:** Lucas Administrative Center 301

**Telephone:** 859-572-5556

**Fax:** 859-572-6094

**E-mail Address:** registrar@nku.edu

**Web Address:** <http://registrar.nku.edu>

**Registrar:** Vacant

**Other Key Personnel:**

Associate Registrar: Amanda Owen

Associate Registrar: Arrick "Jason" Moore

The registrar's office is responsible for official student and curricular records. Staff members handle course and room scheduling and produce the registration guide, the academic calendar, degree audit, 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 areas of concentration; 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; 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 AP, CLEP, DANTES, IB, Portfolio, NOCTI, ACE, and military- and Department of Defense-approved institution attendance.

## Student Affairs

**Location:** Lucas Administrative Center 832

**Telephone:** 859-572-6447

**Fax:** 859-572-1310

**E-mail Address:** studentaffairs@nku.edu

**Web Address:** <http://studentaffairs.nku.edu>

The mission of the Division of Student Affairs is to provide quality co-curricular programs and services that prepare students to learn, lead, and serve. 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 three units: intercollegiate athletics, student development, and student services.

## Student Government Association

**Location:** Student Union 330

**Telephone:** 859-572-5149

**Fax:** 859-572-6173

**E-mail Address:** sga@nku.edu

**Web Address:** <http://sga.nku.edu>

The Student Government Association (SGA) 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 ad-

ministration, 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, 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., and all meetings are open for students to attend.

## Student Life

**Location:** Student Union 303

**Telephone:** 859-572-6514

**Fax:** 859-572-5774

**E-mail Address:** studentlife@nku.edu

**Web Addresses:**

<http://studentlife.nku.edu>

<http://nku.orgsync.com>

**Director:** Betty Mulkey

**Other Key Personnel:**

Assistant Director for Fraternity/Sorority Life: Kimberly Vance

Assistant Director for Leadership: Tiffany Mayse

Program Coordinator for Activities Programming Board: Joshua Gruenke

Student Life Specialist for Student Organizations: Lori Smith

The Office of Student Life stands ready to assist students as they link their academic work to real-world pursuits. NKU students can learn, practice, and hone their leadership styles 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 Life serves as the coordinating office for the many activities and registered student organizations on campus, including those described here. More information about getting involved is available in the Office of Student Life by e-mail or by calling 859-572-6514.

## Activities Programming Board

The Activities Programming Board (APB) is the official student programming body of the university, coordinating events such as drive-in movies, Rites of Spring, hypnotists, lectures, comedy shows, and other activities that provide relief from the day's stresses and provide 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. APB members have hosted academic lecturers such as Robert Kennedy, Jr., and comedians such as Christian Finnegan and Loni Love. 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, room 327 of the Student Union, and members can be reached by e-mail (apb@nku.edu).

## Calendar

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

## Fraternities and Sororities

Fraternities and sororities are the largest, most visible, and most active groups on campus. Sorority and fraternity recruitment is held at the beginning of the fall semester. Black Greek-letter organizations hold membership intake at times scheduled by the individual organizations. More information is available at the Office of Greek Life in the Office of Student Life, room 328 in the Student Union. The Greek organizations currently on campus are:



## Panhellenic Council Sororities

- Delta Gamma
- Delta Zeta
- Kappa Delta
- Phi Sigma Sigma
- Theta Phi Alpha

## Interfraternity Council Fraternities

- Alpha Tau Omega
- Pi Kappa Alpha
- Sigma Phi Epsilon
- Tau Kappa Epsilon

## National Pan-Hellenic Conference Greek Letter Organization's

- Alpha Kappa Alpha Sorority, Inc.
- Alpha Phi Alpha Fraternity, Inc.
- Kappa Alpha Psi Fraternity, Inc.

## 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, Scavenger Hunt, Gold & White Gala, Yell Like Hell, and the announcements of campus royalty. The student life 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 Life. It is delivered directly to students' e-mail addresses 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 other things students will enjoy and need to know.

## Northern Kentucky Leadership Institute

Northern Kentucky Leadership Institute is the umbrella group of the three organizations that provide leadership programming for all NKU students. More information about the Northern Kentucky Leadership Institute, its programming, and the organizations listed below is available in the Student Union, room 329.

## Norse Leadership Society

Norse Leadership Society (NLS) is recognized by students, faculty, and staff as the premiere leadership organization on campus. NLS is composed of outstanding student leaders with a sophomore status or higher. Members come from different backgrounds and always display tremendous pride in the university. Most NLS members are also leaders in other student organizations and in the community. The mission of the Norse Leadership Society is to serve students by being recognized as the premiere leadership and personal development student organization on Northern Kentucky University's campus. This mission is upheld by providing programs and activities that will cultivate a broad base of leadership and developmental skills either independently or through an association with other local organizations. Notable events held by NLS are the fall Gatlinburg retreat, Corporate Leadership Conference, and Leadership Symposium. For more information contact the office of Student Life (studentlife@nku.edu).

## Freshman Service Leadership Committee

The Freshman Service Leadership Committee (FSLC) is a freshman-based student organization dedicated to the development of leadership through service. During both the fall and spring semesters at NKU, FSLC members are seen throughout campus. Whether it be working fundraisers for one of their upcoming events or showing off their skills at NKU's Service on Saturday, FSLC members are dedicated to giving back to the community. While at-

tending FSLC meetings, students will be given the opportunities, put their leadership skills to test, and develop their skills to new heights. 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.

If you would like more information about this great opportunity email FSLC@nku.edu.

## Leadership Mentors

Leadership mentors are students with advanced leadership skills who work specifically with other NKU students and local area high schools to train students for their future leadership roles.

## Student Organizations

There are over 200 registered student organizations at NKU. Current and prospective students can learn more about the organizations from the student life website. Scroll to the bottom and search for organizations. Students can create a profile in 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.

## Student Media

**Location:** Founders Hall 314, 304, 301

**Telephone:** 859-572-5812

**Fax:** 859-572-5772

**E-mail Address:** [studentmedia@nku.edu](mailto:studentmedia@nku.edu)

**Web Addresses:**

[www.nku.edu/campuslife/media.php](http://www.nku.edu/campuslife/media.php)

[www.thenortherner.com](http://www.thenortherner.com)

[www.norsecoderadio.com](http://www.norsecoderadio.com)

**Advisor:** Gayle Brown

The Office of 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; *The Northerner*, an independent, free weekly student newspaper distributed on and near NKU's Highland Heights campus and an independent student news website; *Licking River Review*, a free, yearly literary magazine edited by graduate students; *Lost Cause Review*, a free, alternative literary publication written and edited by students; and *NKU Expressed*, a free, yearly collection of student-created and selected drawings, photos, prose, poetry, and short stories.

## Student Union

**Office Location:** Student Union 192

**Telephone:** 859-572-6588

**Fax:** 859-572-5296

**E-mail Address:** studentunion@nku.edu

**Web Address:** <http://studentunion.nku.edu>

**Director:** Sarah Aikman

**Other Key Personnel:**

Associate Director: Chris Tambling

Reservations Coordinator: Leah Kelly

Technical Services Manager: Chris Bowling

Office Manager: Maryann Trumble

The Student Union is the hub for activity on the NKU campus. Offices and services located in the Student Union include: African American Student Affairs, All Card, Chartwells Food Service, Conference Services, Dean of Students, Latino Student Affairs, New Student Orientation and Parent Programs, Student Government Association, Student Life, Student Union Room Reservations, and Student Union Operations. The facility also includes a variety of places to eat, a game room, meeting rooms, and student organization offices. The information desk, located on the second floor, provides information concerning campus and building events, office locations, TANK bus information, 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 calling 859-572-5760.

## Testing Services

**Location:** University Center 101

**Telephone:** 859-572-6373

**Fax:** 859-572-5874

**E-mail Address:** testing@nku.edu

**Web Address:** <http://testing.nku.edu>

**Director:** Vacant

**Other Key Personnel:**

Assistant Director: Amy Danzo

Testing and Technology Coordinator: Vacant

Secretary: Laura Dektas

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. Other tests administered through Testing Services are Credit-by-Examination (CLEP and DSST), PRAXIS (Professional Assessments for Beginning Teachers), 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 orientation 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.

## University Center

**Office Location:** University Center lobby information booth

**Telephone:** 859-572-6103

**Fax:** 859-572-5296

**E-mail Address:** studentunion@nku.edu

**Web Address:** <http://studentunion.nku.edu>

**Director:** Sarah Aikman

**Other Key Personnel:**

Associate Director: Chris Tambling

Reservations Coordinator: Leah Kelly

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; Career Development Center; Health, Counseling, and Prevention Services; International Students and Scholars; Learning Assistance Programs; Well Living Center; Student Achievement Center; Testing and Disability Services; University Connect and Persist; University Center information desk; and U.S. Bank banking center. Also included in the facility are several meeting rooms, a ballroom, lounge space, and the Otto M. Budig Theater. Room reservations for these areas can be made through Astra Schedule or by calling 859-572-5760. The University Center information desk, located on the second floor main plaza level, provides information concerning campus events, building and office locations, and campus maps.

## Veterans' Services

**Location:** Lucas Administrative Center 308

**Telephone:** 859-572-7609

**Fax:** 859-572-6094

**E-mail Address:** riebblingm@nku.edu

**Web Address:** <http://veterans.nku.edu>

**Veterans' Services Coordinator:** Maria Reverman

NKU's veterans' organization (V.E.T.S.) provides a social group and support structure to help veterans adjust to and become successful in civilian life. V.E.T.S. raises awareness for veterans' issues and facilitates dissemination of information to veterans.

## Military Credit Evaluation

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 Admissions/ Transfer Services, Northern Kentucky University, Highland Heights, KY 41099. Please allow 2-4 weeks for the entry and evaluation of your transcript. For more information: <http://registrar.nku.edu/students/veterans/militarycredit.php>

## Reservists/National Guard Members Called to Active Duty

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. University policy is as follows, according to when call-up occurs:

- 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.

## Benefit Programs Through your GI Bill

Chapter 33	<p><b>Post-9/11 GI Bill</b> 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 your release from active duty.</p> <p><b>To apply:</b> If you are the Veteran, complete VA Form 22-1990 Application for VA Education Benefits and submit with DD-214, Copy 4.</p> <p><b>To apply:</b> 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. For more information, please visit <a href="http://www.gibill.va.gov/benefits/post_911_gibill/transfer_of_benefits.html">http://www.gibill.va.gov/benefits/post_911_gibill/transfer_of_benefits.html</a></p>
Chapter 30	<p><b>Montgomery GI Bill - Active Duty</b> 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.</p> <p><b>To apply:</b> Complete VA Form 22-1990 Application for VA Education Benefits and submit with DD-214, Copy 4.</p>
Chapter 31	<p><b>Vocational Rehabilitation - Disabled Veterans</b> 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.</p> <p><b>To apply:</b> 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.</p>
Chapter 35	<p><b>Survivors' and Dependents' Educational Assistance Program</b> 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.</p> <p><b>To apply:</b> Complete VA Form 22-5490 Application for Survivors' and Dependents' Educational Assistance.</p>

Chapter 1606	<p><b>Montgomery GI Bill - Selected Reserve</b> 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.</p> <p><b>To apply:</b> 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.</p>
Chapter 1607	<p><b>Reserve Education Assistance Program (REAP)</b> Reservists who have been activated for 90 consecutive days or more since September 11, 2001. Must remain in the Reserves to maintain eligibility.</p> <p><b>To apply:</b> 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.</p>

## Wellness Center

**Location:** Founders Hall 111

**Telephone:** 859-572-6668

**Fax:** 859-572-1548

**E-mail:** [goughm1@nku.edu](mailto:goughm1@nku.edu)

**Web Address:** <http://wellness.nku.edu/student/>

**Director:** Karen Campbell

**Other Key Personnel:**

Assistant Director: Maggie Gough

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 experience, or a place to volunteer as a peer educator. The Well Living Center, a place to relax, rejuvenate, and recharge, is located in the University Center, room 250. It is home to the NKU Wellness Center's licensed massage therapists. Students are welcome to contact the center with any questions they have about living a healthy life.

# GENERAL EDUCATION

## Foundation of Knowledge

The general education program at NKU 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 in the program 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. In addition, they will give example applications of science and technology to real-world situations.

### 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: 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.

Program Categories	Credit Hours
Communication	
Oral	3
Written	3
Scientific and Quantitative Inquiry	
Natural Sciences (one lab course)	3-4
Mathematics and Statistics	3
Culture and Creativity (Arts and Humanities) OR Global Viewpoints	3
Self and Society (Social and Behavioral Sciences)	3
<b>TOTAL HOURS</b>	<b>18-19</b>

## 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 Program described later in this chapter.

General Education Categories	Credit Hours
Communication	
Oral	3
Written	6
Scientific and Quantitative Inquiry	
Natural Sciences (one lab course)	7
Mathematics and Statistics	3
Culture and Creativity (Arts and Humanities)	6
Self and Society (Social and Behavioral Sciences)	
Cultural Pluralism	3
Individual and Society	6
Global Viewpoints	3
<b>TOTAL HOURS</b>	<b>37</b>

## 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, grammatical 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: 3 semester hours required.

- CMST 101 Public Speaking – 3 credit hours
- CMST 110 Introduction to Communication Studies – 3 credit hours
- PHI 111 Debating Ethics – 3 credit hours
- TAR 111 Creative Expression – 3 credit hours

#### Written Communication I: 3 semester hours required.

- ENG 101 College Writing – 3 credit hours
- ENG 151H Honors College Writing – 3 credit hours\*
- \*ENG 151H satisfies both Written Communication I and II requirements

#### Written Communication II: 3 semester hours required.

- ENG 291 Advanced College Writing – 3 credit hours
- ART 291W Advanced Writing – Writing for Artists – 3 credit hours
- BIO 291W Advanced Writing in Biology – 3 credit hours
- CHE 391W Chemical Writing and Information – 3 credit hours
- EGT 291W Writing in Engineering Technology – 3 credit hours
- ENV 291W Advanced Writing in Environmental Science – 3 credit hours
- HSC 291W Writing in the Health Sciences – 3 credit hours
- HIS 291W Advanced Historical Writing – 3 credit hours
- PHI 251 Critical Thinking and Moral Communication – 3 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: 7 semester 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 – 4 credit hours
- AST 115 Stars, Galaxies, and Cosmology with Laboratory – 4 credit hours
- BIO 120/120L Understanding the Living World with Laboratory – 4 credit hours
- BIO 121/121L Disease and the Systems They Affect with Laboratory – 4 credit hours
- BIO 123 Human Ecology – 3 credit hours
- BIO 125 Biological Perspective of Wellness – 3 credit hours
- BIO 126 Human Nutrition – 3 credit hours
- BIO 150/150L Introduction to Biology I with Laboratory – 4 credit hours
- BIO 208/208L Human Anatomy and Physiology I with Laboratory – 4 credit hours
- BIO 220 Biological Evolution – 3 credit hours
- CHE 105 Discovering Chemistry with Laboratory – 4 credit hours
- CHE 112/112L Chemistry and Society with Laboratory – 4 credit hours
- CHE 115/115L Physiological Chemistry with Laboratory – 4 credit hours
- CHE 120/120L General Chemistry I with Laboratory – 4 credit hours
- EGT 110 Introduction to Engineering/Technology – 3 credit hours
- ENV 110 Introduction to Environmental Science and Issues – 3 credit hours
- ENV 220/220L Protecting Water Resources with Laboratory – 4 credit hours
- GEO 108 Physical Geography: Climate, Vegetation, Soils, and Landforms – 3 credit hours
- GLY 110 The Face of the Earth with Laboratory – 4 credit hours
- GLY 120 This Dangerous Earth – 3 credit hours
- GLY 220 History of the Earth – 3 credit hours
- GLY 230 Geology of National Parks – 3 credit hours
- INF 120 Elementary Programming – 3 credit hours
- PHY 101 Einstein 101 – 3 credit hours
- PHY 110 Introductory Physics with Laboratory – 4 credit hours
- PHY 211 General Physics I with Laboratory – 4 credit hours
- PHY 220 University Physics I with Laboratory – 4 credit hours
- SCI 110 Integrative Natural Science includes Laboratory – 4 credit hours
- SCI 110H Honors Integrative Natural Science includes Laboratory – 4 credit hours

### Mathematics and Statistics: 3 semester hours required.

- PHI 265 Logic – 3 credit hours
- MAT 114 Finite Mathematics – 3 credit hours
- MAT 115 Mathematics for Liberal Arts – 3 credit hours
- MAT 115H Honors Mathematics for Liberal Arts – 3 credit hours
- MAT 128 Calculus A – 3 credit hours
- MAT 129 Calculus I – 4 credit hours
- MAT 185 Introductory Discrete Mathematics – 3 credit hours
- STA 113 Introduction to Probability and Statistics – 3 credit hours
- STA 205 Introduction to Statistical Methods – 3 credit hours
- STA 212 Statistics for Business Applications I – 3 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: 3 semester 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 – 3 credit hours  
 ANT 230 North American Indians – 3 credit hours  
 ANT 231 Modern American Indians – 3 credit hours  
 ANT 245 Peoples of Latin America and the Caribbean – 3 credit hours  
 ANT 270 Native Australia and Oceania – 3 credit hours  
 BLS 100 Introduction to Black Studies – 3 credit hours  
 EDU 316 Racism and Sexism in Education Institutions – 3 credit hours  
 EMB 105 Race, Gender, and the Mass Media – 3 credit hours  
 MUS 110 Appreciation of Jazz – 3 credit hours  
 SOC 101 Global Inequalities – 3 credit hours  
 SWK 105 Introduction to Social Work – 3 credit hours  
 TAR 102 Race, Gender, and Theatre – 3 credit hours  
 WGS 150 Introduction to Contemporary Gender Issues – 3 credit hours

**Individual and Society: 6 semester 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 Cultural Anthropology – 3 credit hours  
 ANT 110 Introduction to Archaeology – 3 credit hours  
 ECO 200 Principles of Macroeconomics – 3 credit hours  
 ECO 201 Principles of Microeconomics – 3 credit hours  
 JOU 110 Introduction to Mass Communication – 3 credit hours  
 JUS 101 Introduction to Criminal Justice – 3 credit hours  
 PHI 110 Philosophy, Individuals, and Society – 3 credit hours  
 PSC 100 American Politics – 3 credit hours  
 PSC 101 State and Local Politics – 3 credit hours  
 PSY 100 Introductory Psychology – 3 credit hours  
 PSY 100H Honors Introductory Psychology – 3 credit hours  
 SOC 100 Introduction to Sociology – 3 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:

**6 semester hours required to satisfy this category. Each course must be from a different discipline.**

**Bachelor degree candidates are limited to 3 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 – 3 credit hours

ART 100 Art Appreciation – 3 credit hours  
 CHI 101 Elementary Chinese I – 3 credit hours  
 EMB 100 Media Literacy – 3 credit hours  
 ENG 200 Understanding Literature – 3 credit hours  
 ENG 214 Literature Across History – 3 credit hours  
 ENG 302 Literature and Film – 3 credit hours  
 ENG 316 Social Issues in Literature – 3 credit hours  
 FRE 101 Elementary French I – 3 credit hours  
 GER 101 Elementary German I – 3 credit hours  
 HIS 102 History of the U.S. through 1877 – 3 credit hours  
 HIS 103 History of the U.S. since 1877 – 3 credit hours  
 ITA 101 Elementary Italian I – 3 credit hours  
 JPN 101 Elementary Japanese I – 3 credit hours  
 KOR 101 Elementary Korean I – 3 credit hours  
 MUS 100 Music Appreciation – 3 credit hours  
 PHI 181 Philosophers, Cultures, and Creativity – 3 credit hours  
 POP 205 Introduction to Popular Culture – 3 credit hours  
 POP 250 International Popular Culture – 3 credit hours  
 REL 200 World Religions and Cultures – 3 credit hours  
 RUS 101 Elementary Russian I – 3 credit hours  
 SPI 101 Elementary Spanish I – 3 credit hours  
 TAR 100 Theatre Appreciation – 3 credit hours  
 TAR 165 Comparative Arts – 3 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:

**3 semester hours required to satisfy this category.**

ANT 100 Cultural Anthropology – 3 credit hours  
 ANT 114 Great Archaeological Sites – 3 credit hours (offered summer only)  
 BIO 235 Costa Rican Natural History – 3 credit hours  
 ENG 213 Global Viewpoints in Literature – 3 credit hours  
 GEO 100 Global Viewpoints on Geography and the Human Landscape – 3 credit hours  
 HIS 111 Global Viewpoints in History – 3 credit hours  
 JUS 231 Race, Gender, and the Law – 3 credit hours  
 MUS 106 Music of World Culture – 3 credit hours  
 PHI 200 Ethics – 3 credit hours  
 PHI 220 Health Care Ethics – 3 credit hours  
 PSC 102 Comparative Politics – 3 credit hours  
 PSC 103 International Politics – 3 credit hours  
 PSC 110 History of Western Political Thought – 3 credit hours  
 SOC 100 Introduction to Sociology – 3 credit hours  
 SOC 101 Global Inequalities – 3 credit hours  
 SWK 106 Introduction to Social Justice – 3 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.

### 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 as defined by the "Statewide General Education Core." Students can complete general education courses in categories (or blocks), as a core component, and as a complete general education program. Each level of certification is identified below.

*General Education Category Certified.* A student who has completed some but not all of the five categories in the Core Component will be "Category Certified" for purposes of transfer. A student in this situation must fulfill all of the remaining NKU general education requirements not satisfied through "Category" certification.

*General Education Core Certified.* A student who has completed all of the categories – the core component – with a minimum of 30 unduplicated credit hours will be "Core Certified" for the purposes of transfer. A student in this category must fulfill the remaining NKU general education requirements not satisfied through the core component. The student must also have a cumulative GPA of 2.00 or higher and will need to fulfill the remaining NKU general education category requirement: Global Viewpoints (3 credit hours).

*Core Certified Transfer Component (33 semester hours):* The core component includes the following five categories listed here.

Kentucky Transfer Policy Category	Northern Kentucky University General Education Category
Communication	Communication
Oral – 3 credit hours	Oral – 3 credit hours
Written – 6 credit hours	Written – 6 credit hours
Arts and Humanities – 9 credit hours	Culture and Creativity – 6 credit hours
Quantitative Reasoning – 6 credit hours	Mathematics – 3 credit hours
Natural Sciences – 3–7 credit hours	Natural Sciences – 6 credit hours
Social and Behavioral Sciences – 6 credit hours	Self and Society – 9 credit hours

*General Education Fully Certified:* A student who has 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. There may be graduation requirements beyond general education requirements that a student will need to complete (e.g. capstone experiences). Students must have a cumulative GPA of 2.0 or higher to qualify for the Kentucky Transfer Policy.

# COLLEGE OF ARTS AND SCIENCES

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**Location:** Steely Library 410

**Telephone:** 859-572-5495

**Fax:** 859-572-6185

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

**Web Address:** <http://arts.science.nku.edu>

**Dean:** Samuel J. Zachary

**Other Key Personnel:**

Associate Dean and Director of Integrative Studies: William J. Attenweiler

Interim Associate Dean and Director of CINSAM: Kristi Haik

Assistant Dean and Director of the Advising Center: Janis M. Cassiere

Director of Administration, Planning, and Assessment: Charita Brewer

Major Gifts Officer: Julie Budden

Assistant Director of Integrative Studies: Jennifer H. Webster

Assistant to the Dean: Stefanie Harrison

The College of Arts and Sciences is the largest of NKU's six colleges. In describing the pervasive and overarching influence of arts and sciences on virtually every other sector of the university, we often say that arts and sciences is the spark that lights NKU's flame! And indeed it is, for we take as our central mission to "engage the mind and heart" of students across the more than 70 majors, tracks, and emphases that we offer in departments of arts, humanities, mathematics and sciences, social and behavioral sciences, and in our integrative studies program. Our 13 departments, 4 centers, and 22 interdisciplinary studies programs together constitute an extraordinarily diverse pathway to global learning and personal growth for our students.

Journey through our websites and then come visit us on campus. Come talk with us, view our facilities, and mingle with our current majors. Dare to dream by imagining yourself working with us to shape your readiness for personal and professional success. We stand committed to you and the community we serve.

## College Advising Center

**Location:** Founders Hall 330

**Telephone:** 859-572-5494

**Fax:** 859-572-1444

**Email Address:** donathanm2@nku.edu

**Web Address:** <http://arts.science.nku.edu/advising/>

**Key Personnel:**

Assistant Dean and Director: Janis M. Cassiere

Academic Advisor: Melody McMillan

Lecturers/Advising Specialists: Amy Racke

Academic Assistant: Melissa Donathan

The center can help with student issues needing 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: music, biological sciences, criminal justice, international studies, and political science.

## Departments

Biological Sciences

Chemistry

English

History and Geography

Mathematics and Statistics

Music

Physics and Geology

Political Science and Criminal Justice

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

National Association of Schools of Public Affairs and Administration –

Political Science and Criminal Justice

Technology Accreditation Commission of ABET, Inc. – Electrical Engineering Technology; Mechanical and Manufacturing Engineering Technology

## Centers

### Applied Environmental Anthropology Research Group

**Location:** Landrum Academic Center 228

**Telephone:** 859-572-5702

**Fax:** 859-572-6086

**Email Address:** humed1@nku.edu

**Web Address:** <http://aearg.nku.edu>

**Director:** Douglas W. Hume

This undergraduate research group, with faculty supervision, investigates cultural connections between humans and the environment with special consideration to issues of conservation. The research group partners with the Scripps Howard Center for Civic Engagement to provide service-learning projects for NKU students. Anthropological theory and method are uniquely equipped to assist development projects by providing ethnographic data on local human communities and other project stakeholders. Key to our method of data collection is the ethnographic interview in which data are collected and qualitatively analyzed to design survey instruments for further analysis by quantitative methods.

### 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:** David Agard

**Assistant Director:** Patricia Sisson

The Burkardt Consulting Center provides assistance with a wide variety of mathematical and statistical projects, studies, and experiments. The center gives undergraduate students at NKU who work in the center the opportunity to gain valuable experience with real-world mathematical and statistical problems.



## Center for Integrative Natural Science and Mathematics

**Location:** Steely Library 410

**Telephone:** 859-572-7636

**Fax:** 859-572-6179

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

**Web Address:** <http://cinsam.nku.edu/>

**Interim Director:** Kristi Haik

### **Other Key Personnel:**

Dorothy Westerman Herrmann Endowed Chair in Science/Director of Pre-Engineering and Outreach: C. Dale Elifrits

Outreach Coordinator: Betty Stephens

Physical Science and Pre-Engineering Recruiting Director: Thomas B. Brackman

Outreach Specialists: Reeda Hart and Linda West

Academic Assistant: Cynthia Gump

Network Lab Manager: Charles Bowen

Assistant Network Lab Manager: Vladislav Tselezhevich

The Center for Integrative Natural Science and Mathematics (CINSAM), 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. NKU students are supported to collaborate with faculty members on research projects. CINSAM also offers summer camps and outreach events to bring science and mathematics to the community.

## Center for Public History

**Location:** Landrum Academic Center 405

**Telephone:** 859-572-6186

**Email Address:** tenkottep@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 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

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**Location:** Herrmann Science Center 204D

**Telephone:** 859-572-5110

**Fax:** 859-572-5639

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

**Web Address:** <http://biology.nku.edu>

**Department Chair:** Debra Pearce

**Other Key Personnel:**

Assistant Chair/Retention Specialist: Denice N. Robertson

Academic Advisor: Lynn Crane

Department Coordinator: Susan Hale

Secretary: Victoria Hugo

**Full-Time Faculty:** Charles A. Acosta, Hildegard Baldrige, Bethany V. Bowling, Richard L. Boyce, Christine Curran, Gregory Dahlem, Debby S. Dempsey, Richard D. Durtsche, Jon M. Hastings, Kristi L. Haik, Kristine N. Hopfensperger, Miriam Steinitz Kannan, Joseph Mester, Debra Pearce, Denice N. Robertson, Patrick J. Schultheis, Michael P. Scola, Erin Strome, E. David Thompson, Lindsey Walters, Mary K. Whitson

**Undergraduate Programs:**

**Majors:**

Biological Sciences

General Biology Track (Bachelor of Arts or Bachelor of Science)

Cellular/Molecular/Genetics Track (Bachelor of Science)

Ecology/Evolution/Organismal Track (Bachelor of Science)

Forensic Science Track (Bachelor of Science)

Teacher Education Track (Bachelor of Science)

Environmental Science (see interdisciplinary section of catalog)

**Pre-professional programs:**

Pre-forestry

Pre-wildlife management

**Minor:**

Biological Sciences

**Interdisciplinary Minors:** (see interdisciplinary section of catalog)

Environmental Studies

Evolutionary Studies

Neuroscience

**NOTE:** 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-physicians assistant, pre-optometry, pre-wildlife management, pre-forestry, pre-medical, pre-dentistry, pre-pharmacy, pre-physical therapy, and pre-veterinary medicine.

**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. Working with a faculty member in "BIO 399: Techniques: Biological Sciences," 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 our 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: Math ACT $\geq$ 22 and meet CPE minimum standards of 18 English and 22 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 Majors

### Bachelor of Arts and Bachelor of Science in Biology

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 biology majors. Details concerning the biology core, support core, and each of the tracks are posted 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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

### Degree Requirements: B.A. and B.S. in Biology

Core Courses In Biological Sciences	Credits
BIO 150/150L Introduction to Biology I with Laboratory	4
BIO 151/151L Introduction to Biology II with Laboratory	4
BIO 155 Orientation to Biology	1
BIO 349/349L Genetics with Laboratory	4
BIO 291W Advanced Writing in Biology	3
BIO 304 General Ecology	3
BIO 491 Comprehensive Examination	0
<b>Credits in Biological Sciences</b>	<b>19</b>
Core Courses in Other Disciplines	
CHE 120/120L and 121/121L General Chemistry I and II with Laboratory	8
PHY 211 and 213 General Physics I and II with Laboratory* <i>*Prerequisite: MAT 119 Pre-Calculus Mathematics or Math ACT &gt; 25</i>	
<b>OR</b>	
PHY 220 and 222 University Physics I and II with Laboratory* <i>*Prerequisite: MAT 129 Calculus I or MAT 227 Calculus B</i>	8-10
STA 205 Introduction to Statistical Methods	3
Foreign language requirement: All biology majors are required to take a two-course sequence in a foreign language. One of these courses may be used to satisfy the Culture and Creativity general education requirements.	6
<b>Credits in Other Disciplines</b>	<b>25-27</b>
<b>Additional Prerequisite Credits</b>	<b>0-7</b>
<b>TOTAL CORE CREDITS</b>	<b>44-53</b>

B.A. General Biology Track*	Credits
BIO 304L Ecology Laboratory	1
BIO 358 Evolution of Organisms	3
One course from the Cellular/Molecular/Genetics group	3-4
One course from the Ecology/Evolution/Organismal group	3-4
One course from the Field Biology group	3-4
BIO 410 Conservation Biology	4
Biology elective	3-4
CHE 310/310L Organic Chemistry I with Laboratory	4
<b>TOTAL TRACK CREDITS</b>	<b>24-28</b>
<b>Total Core Credits</b>	<b>44-53</b>
<b>TOTAL CREDITS</b>	<b>68-81</b>
*This track is not recommended for those who wish to pursue a post-graduate education in the sciences.	

B.S. General Biology Track	Credits
BIO 304L Ecology Laboratory	1
BIO 358 Evolution of Organisms	3
One course from the Cellular/Molecular/Genetics group	3-4
One course from the Ecology/Evolution/Organismal group	3-4
One course from the Field Biology group	3-4
Biology elective	4
CHE 310/310L Organic Chemistry I	4
CHE 311/311L Organic Chemistry II with Laboratory <b>OR</b> Another advanced CHE, GLY, PHY, or GEO course	3-4
MAT 112 Applied Calculus <b>OR</b>	3-4
MAT 129 Calculus I	
<b>TOTAL TRACK CREDITS</b>	<b>27-32</b>
<b>Total Core Credits</b>	<b>44-53</b>
<b>TOTAL CREDITS</b>	<b>71-85</b>

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 <b>OR</b>	3-4
BIO 360 Advanced Biology of the Cell	
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 <b>OR</b>	3-4
MAT 129 Calculus I	
<b>TOTAL TRACK CREDITS</b>	<b>34-38</b>
<b>Total Core Credits</b>	<b>44-53</b>
<b>TOTAL CREDITS</b>	<b>78-91</b>

B.S. Ecology/Evolution/Organismal Track	Credits
BIO 342 Biometry	3
BIO 358 Evolution of Organisms	3
BIO 304L Ecology Laboratory	1
One course from the Ecology group	3-4
Two courses from the Organismal group	6-8
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 <b>OR</b> another advanced CHE, GLY, PHY, or GEO course	3-4
MAT 112 Applied Calculus <b>OR</b>	3-4
MAT 129 Calculus I	
<b>TOTAL TRACK CREDITS</b>	<b>29-35</b>
<b>Total Core Credits</b>	<b>44-53</b>
<b>TOTAL CREDITS</b>	<b>73-88</b>

<b>B.S. Forensic Science Track*</b>		<b>Credits</b>
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 <b>OR</b>	3-4
CHE 350/350L	Instrumental Analysis with Laboratory	
CHE 310/310L	Organic Chemistry I with Laboratory	4
CHE 311/311L	Organic Chemistry II with Laboratory	4
CHE 340/340L	Analytical Chemistry	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
<b>TOTAL TRACK CREDITS</b>		<b>44-45</b>
<b>Total Core Credits</b>		<b>44-53</b>
<b>TOTAL CREDITS</b>		<b>88-98</b>
<p>*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 and Criminal Justice. By doing so, they will be much better prepared to work with other 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.</p>		

<b>B.A. Biology Teacher Education Track*</b>		<b>Credits</b>
BIO 358	Evolution of Organisms	3
BIO 304L	Ecology Laboratory	1
One plant course with lab		3-4
One animal course with lab		4
One course from the Cellular/Molecular/Genetics group		3-4
EDU 104	Orientation: Education Profession/ Program	1
PSY 100	Introduction to Psychology	3
<b>TOTAL TRACK CREDITS</b>		<b>18-20</b>
<b>Total Core Credits</b>		<b>44-53</b>
<b>TOTAL CREDITS</b>		<b>62-73</b>
<p>*Additional EDU and EDA education courses (see College of Education) 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.</p>		

**Biological Sciences Course Groups:****Cell/Molecular/Genetics Group**

Course	Title
BIO 302	General Microbiology
BIO 360	Advanced Cell Biology
BIO 381	Human Nutrition and Metabolism
BIO 400	Advanced Molecular Biology/Genetics
BIO 402	Advanced Neurobiology
BIO 425	Mammalian Anatomy & Physiology I
BIO 426	Mammalian Anatomy & Physiology II
BIO 430	Immunology
BIO 446	Plant Physiology
BIO 451	Histology
BIO 466	Animal Physiology
BIO 467	Endocrinology
BIO 470	Medical Microbiology
BIO 475	Virology
BIO 482	Biochemistry

**Ecology/Evolution/Organismal Group**

Course	Title
BIO 300	Comparative Vertebrate Anatomy
BIO 301	Invertebrate Zoology
BIO 303	Vertebrate Zoology
BIO 305	Vertebrate Embryology
BIO 308	Plant Systematics
BIO 309	Plant Ecology
BIO 310	Plant Morphology
BIO 311	Mycology
BIO 313	General Botany
BIO 320	Entomology
BIO 404	Herpetology
BIO 405	Invertebrate Paleontology
BIO 406	Ecosystem Ecology
BIO 407	Ornithology
BIO 409	Biogeography
BIO 410	Conservation Biology
BIO 421	Mammalogy
BIO 422	Limnology
BIO 440	Animal Behavior
BIO 441	Animal Physiological Ecology
BIO 445	Anatomy of Vascular Plants
BIO 446	Plant Physiology
BIO 451	Histology
BIO 460	Introduction to Marine Science
BIO 462	Tropical Ecology
BIO 465	Regional Biology
BIO 466	Animal Physiology
BIO 474	Microbial Ecology
ENV 350	Environmental Toxicology

**Organismal Group**

Course	Title
BIO 300	Comparative Vertebrate Anatomy
BIO 301	Invertebrate Zoology
BIO 303	Vertebrate Zoology
BIO 305	Vertebrate Embryology
BIO 308	Plant Systematics
BIO 309	Plant Ecology
BIO 310	Plant Morphology
BIO 311	Mycology
BIO 313	General Botany
BIO 320	Entomology
BIO 404	Herpetology
BIO 407	Ornithology
BIO 421	Mammalogy
BIO 440	Animal Behavior
BIO 441	Animal Physiological Ecology
BIO 445	Anatomy of Vascular Plants
BIO 451	Histology
BIO 466	Animal Physiology

**Field Group**

Course	Title
BIO 309	Plant Ecology
BIO 312	Dendrology
BIO 320	Entomology
BIO 404	Herpetology
BIO 405	Invertebrate Paleontology
BIO 406	Ecosystem Ecology
BIO 407	Ornithology
BIO 421	Mammalogy
BIO 422	Limnology
BIO 460	Introduction to Marine Science
BIO 461	Ecology and Geology of Coral Reefs
BIO 463 & BIO 462	Tropical Ecology Lecture and Lab
BIO 465	Regional Biology

**Ecology Group**

Course	Title
BIO 309	Plant Ecology
BIO 406	Ecosystem Ecology
BIO 409	Biogeography
BIO 410	Conservation Biology
BIO 422	Limnology
BIO 441	Animal Physiological Ecology
BIO 460	Introduction to Marine Science
BIO 461	Ecology and Geology of Coral Reefs
BIO 462	Tropical Ecology
BIO 465	Regional Biology
BIO 474	Microbial Ecology
ENV 350	Environmental Toxicology

## 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 one of the bachelor's degree tracks presented earlier (B.S. and B.A.). 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 forestry school at the University of Kentucky include the following:

- MAT 119 Pre-Calculus Mathematics
- MAT 129 Calculus I
- STA 205 Introduction to Statistical Methods
- CHE 120 and 121 General Chemistry I and II
- BIO 150 Introduction to Biology I
- BIO 151 Introduction to Biology II
- BIO 155 Orientation to Biology
- PHY 211 General Physics I with Laboratory
- ECO 201 Principles of Microeconomics
- AEC Economics of Food and Agriculture (to be taken at UK)
- GEO 306 Environmental Resource Management
- SOC 340 Population **OR** SOC 355 Sociology of the Environment

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 <http://www.ca.uky.edu/forestry>. The curriculum plan for general biology, presented earlier, 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 one of the bachelor's degree tracks presented earlier (B.S. or B.A.). 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 Eastern Kentucky University, students should refer to this website <http://people.eku.edu/frederickb/wild.htm>) 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.

## Biology 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 minor requirements, then the prerequisite is given in italics below the course for which it is a prerequisite, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Biological Sciences		Credits
BIO 150/150L	Introduction to Biology I with Laboratory	4
BIO 151/151L	Introduction to Biology II with Laboratory	4
CHE 120/120L	General Chemistry I with Laboratory	4
CHE 121/121L	General Chemistry II with Laboratory	4
MAT 112	Applied Calculus* <i>Prerequisite: C- or better in MAT 109 or placement**</i>	3
<b>OR</b>		
Higher-level mathematics course		
12 additional hours of BIO courses with at least 9 at the 300 level or above***		12
<b>Program Credits</b>		<b>31</b>
<b>Additional Prerequisite Credits</b>		<b>0-3</b>
<b>TOTAL CREDITS</b>		<b>31-34</b>

\*\*A student can place out of the prerequisite requirement if he or she has a Math ACT of 23 or higher or Math SAT of 540 or higher.

\*\*\*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@nku.edu

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

**Department Chair:** Diana McGill

**Other Key Personnel:**

Assistant Chair: Keith Walters

Freshman Specialist: Laura L. Padolik

Department Coordinator: Tiffany Freytag

Stockroom/Lab Coordinator: Kris Mason

Freshman Lab Coordinator: Jim Wilkinson

**Full-Time Faculty:** P.J. Ball, Heather Bullen, Grant A. Edwards, Gwen Fields, Patrick Hare, Kebede Gemene, Isabelle Lagadic, Lili Ma, Diana McGill, Kereen Monteyne, Laura L. Padolik, Stefan Paula, K.C. Russell, Bradley Sieve, Keith Walters

**Undergraduate Programs:**

**Majors:**

Bachelor of Science

Chemistry (certified by the American Chemical Society)

Biochemistry Track\*

Forensics Track\*

Bachelor of Arts

Chemistry

\*May also be American Chemical Society certified depending on courses chosen as electives

**Minor:**

Chemistry

**NOTE:** 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 chemistry are: pre-medical, pre-dental, pre-pharmacy, pre-physical therapy, and pre-veterinary medicine.

**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 Chemical Honor Society).

**Special admission requirements:** The admission standards for all students pursuing degrees in chemistry and those interested in pre-professional areas

offered by the department are: Math ACT $\geq$ 22 and other ACT categories  $>18$  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 a minimum score of 22 on the ACT math section or equivalent, or a B- or better in "CHE 102: Introduction to Chemistry," or 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 math section and wish to try to test into this course.

**You should also know:** For all major tracks in chemistry, students must take a minimum of nine hours of chemistry courses at NKU, one 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 degree. Students must complete the core courses listed below plus one of the three tracks:

ACS Certified Track    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 mathematics beyond Calculus II. A student completing the Bachelor of Science in Chemistry is not required to complete a minor or an area of concentration.

The American Chemical Society (ACS) certified track meets requirements prescribed by ACS. 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

Core 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	4
CHE 360	Physical Chemistry I	3
CHE 361	Physical Chemistry II	3
CHE 362L	Physical Chemistry Laboratory	2
CHE 391W	Chemical Information and Writing	3
CHE 400	Chemistry Seminar	1
CHE 482	Biochemistry I	3
MAT 129 and 229	Calculus I and II	9
	OR	
MAT 128, 227, and 228	Calculus A, B, and C	
PHY 211 and PHY 213	General Physics I and II with Laboratory	8-10
	OR	
PHY 220 and PHY 222	University Physics I and II with Laboratory	
<b>TOTAL CORE CREDITS</b>		<b>53-55</b>

**ACS Certified Track**

The ACS certified track 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 as a pre-professional degree (pre-medicine, pre-vet, pre-dental).

<b>ACS Certified Track</b>		<b>Credits</b>
CHE 320/320L	Inorganic Chemistry with Laboratory	5
CHE 350/350L	Instrumental Analysis with Laboratory	4
Advanced content coursework: select at least 3 credits from the following:		
CHE 410	Spectrometric Identification of Compounds	3
CHE 440	Environmental Chemistry	
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 3 credits from the following:		
CHE 392	Advanced Laboratory Projects (1-3)	3
CHE 482L	Biochemistry I Laboratory (1)	
CHE 483L	Biochemistry II Laboratory (1)	
CHE 492	Research: Chemistry (1-3)	
CHE 505	The History of Chemistry (2-3)	
<b>TOTAL TRACK CREDITS</b>		<b>15</b>
<b>Total Core Credits</b>		<b>53-55</b>
<b>TOTAL CREDITS</b>		<b>68-70</b>

**Biochemistry Track**

The biochemistry track is designed for students who are interested in both chemistry and biology. In particular, it is designed for those students who are interested in the chemistry of living organisms. It is well suited for those who wish to pursue careers in biochemistry-related fields or for those students who wish to further their education in school or professional schools (medical, dental, veterinary, pharmacy, etc.).

<b>Biochemistry Track</b>		<b>Credits</b>
CHE 482L	Biochemistry I Laboratory	1
CHE 483/483L	Biochemistry II with Laboratory	4
BIO 150/150L	Introduction to Biology I with Laboratory	4
BIO 151/151L	Introduction to Biology II with Laboratory	4
Select at least three of the following courses (one MUST be BIO 349-349L or BIO 400-400L)*		
BIO 302/302L	General Microbiology with Laboratory (4)	11-13
BIO 349/349L	Genetics with Laboratory (4)	
BIO 360	Advanced Biology of the Cell (3)	
BIO 400/400L	Advanced Molecular Biology with Laboratory (4)	
CHE 320/320L	Inorganic Chemistry with Laboratory (5)	
CHE 350/350L	Instrumental Analysis with Laboratory (4)	
<b>TOTAL TRACK CREDITS</b>		<b>24-26</b>
<b>Total Core Credits</b>		<b>53-55</b>
<b>TOTAL CREDITS</b>		<b>77-81</b>

\*To receive ACS certification, CHE 320-320L must be taken as one course in this distribution area.

**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 area of concentration 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 and Criminal Justice. By doing so, students will be much better prepared to work with other 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.

<b>Forensics Track</b>		<b>Credits</b>
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 455	Scanning Electron Microscopy (3)	3-4
CHE 350/350L	Instrumental Analysis with Laboratory (4)	
<b>TOTAL TRACK CREDITS</b>		<b>29-30</b>
<b>Total Core Credits</b>		<b>53-55</b>
<b>TOTAL CREDITS</b>		<b>82-85</b>

To receive ACS certification, CHE 320-320L must be taken in addition to the listed courses.

**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 an area of concentration if they have just one major.

**Degree Requirements: B.A. – Chemistry**

<b>Degree Requirements: B.A. - Chemistry</b>		<b>Credits</b>
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	4
CHE 360	Physical Chemistry I	3
CHE 361	Physical Chemistry II	3
CHE 362L	Physical Chemistry Laboratory	2
CHE 391W	Chemical Information and Writing	3
CHE 400	Chemistry Seminar	1
At least 3 additional hours of allowed 300 level or above chemistry courses		3
MAT 129 and 229	Calculus I and II	9
MAT 128, 227, and 228	OR Calculus A, B, and C	
PHY 211 and 213	General Physics I and II with Laboratory	8-10
PHY 220 and 222	OR University Physics I and II with Laboratory	
<b>TOTAL CREDITS</b>		<b>53-55</b>



## Chemistry Minor

### Minor in Chemistry

The minor in chemistry requires eight hours of general chemistry (CHE 120, CHE 120L, CHE 121, and CHE 121L) plus an additional 12 semester hours of 300 level or above chemistry courses (independent study and research coursework does not count toward the minor). Students must take at least 4 of the 12 upper-level hours at NKU and earn a GPA of at least 2.0 in all chemistry courses.

## DEPARTMENT OF ENGLISH

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**Location:** Landrum Academic Center 500

**Telephone:** 859-572-5416

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

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**Department Chair:** Jonathan S. Cullick

**Other Key Personnel:**

Assistant Chair: Emily Detmer-Goebel

Academic Advisor: Joe Moffett

Writing Instruction Program Director: Jennifer Cellio

Graduate Program Director: Roxanne Kent-Drury

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, Thomas Bowers, Paige B. Byam, Jennifer Cellio, Jonathan S. Cullick, Emily Detmer-Goebel, Donelle Dreese, Andrea Gazzaniga, Steven J. Gores, Barclay Green, Tiffany Hinton, Margo Jang, Parmita Kapadia, Roxanne Kent-Drury, Nancy Kersell, Tonya Krouse, Andrew P. Miller, Kelly Moffett, Tamara F. O'Callaghan, Robert T. Rhode, Danielle Roemer, Peter Schiff, Chenliang Sheng, Ernest Smith, Robert K. Wallace, Gary Walton, Chris Wilkey, Kristine A. Yohe

**Undergraduate Programs:**

**Majors:**

English

English with secondary teaching certification

**Minors:**

English

Creative Writing

Professional Writing

Cinema Studies (see interdisciplinary section of catalog)

**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 to do with an English major? 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 the major in English 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 semester 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 Scholarship; Byron Award; Thad Lindsey Award; Lindsey Book Awards; Lindsey Leadership Award; Judith Blackburn Award; and the Writing Instruction Program Awards. Information about criteria and applications can be found on the English department website.

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, the *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 degree of Bachelor of Arts is conferred upon students completing a major in English. The English major consists of a minimum of 42 semester hours, including 18 credits from the core courses plus 24 credits in one of the three program options: literature, writing studies, or creative writing.

Core Courses in English	Credits
ENG 250 Introduction to English Studies	3
Select Two Survey Sequences selected from these three options: ENG 202 & ENG 203 <i>British</i> (ENG 208 & ENG 209) or (ENG 217 & ENG 208) <i>American</i> ENG 204 & (ENG 205 or ENG 231) <i>Writing</i>	
200-level elective in English	3
<b>TOTAL CORE CREDITS</b>	<b>18</b>

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.

Students in the literature option may achieve an optional area of focus by allocating 9 hours of their 300/400/500-level courses in the English major according to one of the following options: (1) American literature; (2) British literature; (3) multicultural literature and gender studies.

**Degree Requirements: B.A. English - Literature Option**

Courses	Credits
ENG 350 Literary Criticism	3
Pre-1800 Traditions*	3
Pre-1900 Traditions*	3
Post 1900 Traditions*	3
Genres**	3
Identities***	3
300/400/500-level electives in English	6
<b>TOTAL OPTION CREDITS</b>	<b>24</b>
<b>Total Core Credits</b>	<b>18</b>
<b>TOTAL CREDITS</b>	<b>42</b>

\*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.

**Degree Requirements: B.A. English - Writing Studies Option**

Courses	Credits
<b>Writing Studies Courses*</b>	
ENG 331 Persuasive Writing	
Eng 338 Writing for Social Change	
ENG 340 Business Writing	
ENG 347 Technical Writing	
ENG 348 Professional Editing in the Workplace	
ENG 349 Web Writing for the Professions	
ENG 359 Writing in Workplace Genres	
ENG 371 Traditional Grammar	
ENG 381 Introduction to Linguistics	
ENG 396 Internship: Editing I	
ENG 496 Internship: Editing II	
ENG 497 Internship: Writing Pedagogy	
ENG 544 Research Methods for Professional Writing	
ENG 546 Grant Writing	18
300/400/500-level English electives	6
<b>TOTAL OPTION CREDITS</b>	<b>24</b>
<b>Total Core Credits</b>	<b>18</b>
<b>TOTAL CREDITS</b>	<b>42</b>

\*Writing Studies courses are designated in course descriptions in the catalog with the words WRITING STUDIES. Students choosing this option will choose 18 hours of writing studies courses, which emphasize content areas such as rhetorical techniques in writing, professional writing, and editing.

**Degree Requirements: B.A. English - Creative Writing Option**

Courses	Credits
Any Genres, Identities or Post-1900 Traditions courses	3
Creative Writing courses in at least two genres* at the 300-400 level (15 hours)	
<b>Fiction Writing</b>	
ENG 332 Fiction Writing	
ENG 432 & ENG 433 Novel Writing I and Novel Writing II	
<b>Poetry Writing</b>	
ENG 334 Poetry Writing	
ENG 430 Advanced Poetry Writing	
<b>Nonfiction Writing</b>	
ENG 336 Creative Nonfiction	15
ENG 357 Biography Writing	
<b>Dramatic Writing</b>	
ENG 358 Playwriting	
ENG 431 Screenwriting	
ENG 358 Writing in Creative Genres	
300/400/500-level English electives	6
<b>TOTAL OPTION CREDITS</b>	<b>24</b>
<b>Total Core Credits</b>	<b>18</b>
<b>TOTAL CREDITS</b>	<b>42</b>

\*Creative writing courses are designated in the catalog with the words CREATIVE WRITING. Students choosing this option will complete 15 hours in 300-level and above 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 upper-level creative writing courses.

**Bachelor of Arts with a major in English and Secondary Certification**

The major in English with secondary certification is offered for students who wish to be certified for teaching at the high school or middle school level. The major consists of 45 semester 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 the Junior and Senior High School" and requirements for English, education, and general education. They do not need a minor or an area of concentration.

**Degree Requirements: B. A. – English and Secondary Certification**

Courses	Credits
ENG 200 Understanding Literature	3
ENG 202 and ENG 203 Survey of British Literature I and II	6
ENG 308 Shakespeare I	
<b>OR</b>	
ENG 309 Shakespeare II	3
ENG 381 Introduction to Linguistics	
<b>OR</b>	
ENG 382 History of English Language	3
ENG 385 Teaching of English I	3
ENG 387 Teaching of English II	3
British literature designated as pre-1800	3
British literature designated as post-1800	3
Two courses in American literature	6
World literature (ENG 206 or ENG 207 or a course in literature of a non-English speaking country)	3
Electives in English	9
<b>TOTAL CREDITS</b>	<b>45</b>

## English Minors

### Minor in English

The minor in English consists of at least 21 semester hours, excluding "ENG 101: College Writing" and "ENG 291: Advanced College Writing."

Requirements for Minor: English		Credits
ENG 202	Survey of British Literature I	3
ENG 203	Survey of British Literature II	3
Electives in English (at least 9 semester hours must be in 300- and 400-level courses)		15
<b>TOTAL CREDITS</b>		<b>21</b>

### Minor in Creative Writing

The minor in creative writing consists of at least 21 semester hours, not including "ENG 101: College Writing" and "ENG 291: Advanced College Writing."

Requirements for Minor: Creative Writing		Credits
ENG 231	Introduction to Creative Writing	3
ENG 332	Fiction Writing	3
ENG 334	Poetry Writing	3
Select 12 credits from the following:		
ENG 340	Business Writing	12
ENG 347	Technical Writing	
ENG 358	Writing in Creative Genres	
ENG 331	Persuasive Writing	
ENG 431	Screenwriting	
ENG 432	Novel Writing	
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	
Any other writing courses numbered ENG 300 or above.		
<b>TOTAL CREDITS</b>		<b>21</b>

### Minor in Professional Writing

The professional writing minor consists of at least 21 semester hours, not including "ENG 101: College Writing" or "ENG 291: Advanced College Writing."

Requirements for Minor: Professional Writing		Credits
ENG 340	Business Writing	3
<b>OR</b>		
ENG 347	Technical Writing	
ENG 348	Professional Editing in the Workplace	3
ENG 349	Web Writing for the Professions	3
INF 101	Computer Literacy and Informatics	3
<b>OR</b>		
JOU 321	Publication Skills	
Select 9 credits from the following:		
ENG 204	Introduction to Writing Studies	9
ENG 205	Contemporary Issues in Writing Studies	
ENG 340	Business Writing	
<b>OR</b>		
ENG 347	Technical Writing (whichever not taken to fulfill the above requirement)	
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	
<b>TOTAL CREDITS</b>		<b>21</b>

# 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:**

**Other Key Personnel:**

Director of Graduate Studies: Debra Meyers

Academic Advisor: Joe Moffett

Coordinator of Geography: John Metz

Director of Women's and Gender Studies: Debra Meyers

Department Coordinator: Janice Rachford

Secretary: Lou Stuntz

**Full-Time Faculty:** Rebecca Bailey, Mary Bucklin, Suzanne DeLuca, Tripta Desai, Terence Fleming, Brian Hackett, Michael Hinckley, Eric Jackson, William Landon, Francois LeRoy, Carol Medlicott, Debra Meyers, John Metz, Burke Miller, Lawrence Mitchell, Kathleen Quinn, James Ramage, Jonathan Reynolds, Paul Tenkotte, Sharon Vance, Michael Washington, Andrea Watkins, Robert Wilcox, Jeffrey Williams

**Undergraduate Programs:**

**Majors:**

Bachelor of Arts

History

Geography

Social Studies for Secondary Education

**Minors:**

History

Geography

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)

**Area of Concentration:**

Women's and Gender Studies (see interdisciplinary programs)

**Thinking about the discipline:** The Department of History and Geography at NKU 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 (GIS). 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 14 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 area of concentration 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

To graduate with a Bachelor of Arts in History, a student must have earned 42 semester hours (with a C or above in each history course) including 12 semester hours of 100-level survey courses. In addition, the GPA must be at least 2.5 in courses counting toward the major. 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

Courses	Credits
HIS 100	History of Europe to 1713 <b>and</b> History of Europe, 1713 to the Present* <b>OR</b> 6
HIS 101	
HIS 108	World History to 1500 <b>and</b> World History since 1500* <b>OR</b> 6
HIS 109	
HIS 102	History of the United States through 1877 <b>and</b> History of the United States since 1877* <b>OR</b> 6
HIS 103	
HIS 106	History of African Americans to 1877 <b>and</b> History of African Americans since 1877* <b>OR</b> 3
HIS 107	
HIS 385	Art and Method of History
United States history at the 300 level or above**	
European history at the 300 level or above**	
Non-western history at the 300 level or above**	
Race/gender history at the 300 level or above**	
History electives at the 300 level or above**	
Geography elective at the 300 level or above**	
<b>TOTAL CREDITS</b>	
<b>42</b>	

\*HIS 194H Honors History Seminar and one additional course at the 300 level or above may be substituted for one 6-hour survey sequence to fulfill the 42-hour minimum.

\*\* Check the history and geography department's website for a detailed list of courses fulfilling this category.

### Bachelor of Arts with a major in Geography

Geography seeks to understand the impact that people have made upon their environment and to provide an explanation for the spatial distribution of phenomena relating to people. Offerings in geography include: (1) systematic courses that examine in some detail spatial characteristics of human society; (2) regional courses that seek to provide an understanding of characteristics

of the world's regions while at the same time introducing basic geographic concepts; and (3) courses in geographic techniques, especially mapping. Students majoring in geography are encouraged to take courses in other disciplines related to their area of geographic interest (for example, courses in economics for those interested in economic geography, courses in anthropology for those interested in cultural geography, etc.). 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	Credits
GEO 100 Global Viewpoints: Geography and Human Landscape	3
GEO 108 Physical Geography	3
GEO 385 Transformation of Geography in Modern Times	3
GEO 370 Geography Methods and Applications	1
GEO electives	6
GEO electives at the 300 level and above	21
<b>TOTAL CREDITS</b>	<b>37</b>

### Bachelor of Arts with a Secondary Education Certification in Social Studies

Students pursuing social studies certification for secondary education should review that 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 2.50 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 semester hours of social studies content classes, as outlined below. For core courses in education, students must meet separately with their education department advisors.

### Degree Requirements: B.A. – Secondary Certification in Social Studies

Courses in History and Geography	Credits
GEO 100 Global Viewpoints: Geography and Human Landscape	3
<b>OR</b>	
GEO 101 World Regional Geography	3
HIS 100 History of Europe to 1713	3
HIS 101 History of Europe 1713 to present	3
HIS 102 History of the United States through 1877	3
HIS 103 History of the United States since 1877	3
HIS 108 World History to 1500	3
HIS 109 World History since 1500	3
HIS 385 Art and Method of History	3
History electives at the 300 level or above	6
<b>Credits in History and Geography</b>	<b>30</b>

Courses in Other Disciplines		
ANT 100 Cultural Anthropology	<b>OR</b>	3
ANT 201 World Cultures		
ECO 205 Economics for Teachers		3
PSC 100 American Politics		3
PSC 102 Comparative Politics	<b>OR</b>	3
PSC 103 International Politics		
PSY 100 Introduction to Psychology		3
SOC 100 Introduction to Sociology		3
Electives in any of the social studies disciplines other than history (300 level or above)		9
	<b>Credits in Other Disciplines</b>	<b>27</b>
	<b>TOTAL CREDITS</b>	<b>57</b>

### History and Geography Minors

#### Minor in History

The minor in history consists of 21 semester hours. Only history courses in which a student earns a C or better will count toward a history minor.

Students can complete a minor in history in a fully online format. For more information, contact Educational Outreach.

Requirements for Minor: History	Credits
Select one pair of courses from the following:	
HIS 100 HIS 101 History of Europe to 1713 <b>and</b> History of Europe, 1713 to the Present	
HIS 102 History of the U.S. through 1877 <b>and</b> HIS 103 History of the U.S. since 1877	6
HIS 106 History of African Americans to 1877 <b>and</b> HIS 107 History of African Americans since 1877	
HIS 108 World History to 1500 <b>and</b> HIS 109 World History since 1500	
History electives (200 level or above)	15
<b>TOTAL CREDITS</b>	<b>21</b>

**Minor in Geography**

<b>Requirements for Minor: Geography</b>		<b>Credits</b>
GEO 100	Global Viewpoints: Geography and Human Landscape	3
Select three courses from the following:		
GEO 301	Urban Geography	
GEO 302	Cultural Geography	
GEO 303	Economic Geography	
GEO 304	Political Geography and Geopolitic	
GEO 306	Environmental Resource Management	
GEO 308	Climatology	
GEO 309	Historical Geography of the United States	
GEO 310	Geography of Population	
GEO 314	Maps and Map Interpretation	
GEO 327	Field Mapping in Geography	
GEO 330	Geography of Religion	
GEO 335	Geography through Film, Art, and Literature	9
GEO 340	Sustainable Food Systems	
GEO 370	Geography Methods and Applications	
GEO 385	Transformation of Geography in Modern Times	
GEO 415	Cartography	
GEO 418	Geographic Information Systems	
GEO 419	Remote Sensing of the Environment	
GEO 502	Geography of Kentucky	
GEO 507	The Local Community: A Geographic Analysis	
GEO 518	Geographic Information Analysis	
GEO 519	Advanced Remote Sensing	
GEO 520	Environmental Resources for Teachers	
GEO 522	Introduction to Historic Preservation	
GEO 540	Cultural Geography of Asia	
GEO 552	Spatial Data Bases	
GEO electives		6
GEO elective (200-level or above)		3
<b>TOTAL CREDITS</b>		<b>21</b>

**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 semester hours.

<b>Requirements for Minor: Military History</b>		<b>Credits</b>
Select 21 credits from the following:		
HIS 311	Independence and Constitution 1763-1789	
HIS 365	European Military History: Ancient World to Renaissance	
HIS 366	European Military History: Renaissance to the Modern World	
HIS 409	The French Revolution	
HIS 413	History of Nazi Germany	
HIS 414	The Holocaust	
HIS 417	The Civil War and Reconstruction, 1860-1877	
HIS 423	Diplomacy and Foreign Policy of the United States	21
HIS 473	Battles and Behavior I: 1066-1836	
HIS 474	Battles and Behavior II: 1854-1984	
HIS 475	The First World War	
HIS 476	The Second World War	
HIS 512	History of Arab Israeli Conflict	
HIS 513	The French Revolution	
HIS 533	Causes of the Civil War	
HIS 535	Civil War and Reconstruction	
HIS 565	The Vietnam War	
HIS 570	The Cold War	
<b>TOTAL CREDITS</b>		<b>21</b>

# DEPARTMENT OF MATHEMATICS AND STATISTICS

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**Location:** Mathematics Education Psychology Center 401

**Telephone:** 859-572-5377

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

**Department Chair:** Steven Wilkinson

**Other Key Personnel:**

Department Coordinator: Suzanne Ritchie

Secretary: Deanna Karam

**Full-Time Faculty:** David Agard, Brooke Buckley, Chris Christensen, Daniel Curtin, Gina Foletta, Theodore Hodgson, Lisa Holden, Dhanuja Kasturiratna, Donald Krug, Andrew Long, Gail Mackin, Philip McCartney, Carl Miller, Teri Murphy, Stephen Newman, Bethany Noblitt, Joseph Nolan, Mel Peterson, John Rankin, Patricia Sisson, Michael Waters, Steven Wilkinson, Jacqueline Wroughton

**Undergraduate Programs:**

**Majors:**

Bachelor of Science

Mathematics

Statistics

**Minor:**

Mathematical Sciences

**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, statisticians, 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 mathematical sciences seminar course early in their major to discover the possibilities in the disciplines, both while at NKU and after graduating.
- For those early in their studies who are considering teaching middle school or high school mathematics, the PRIME program provides a summer job experience where they can interact with educators and students to get a better idea of what a career in education is like.
- 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 and the problem-solving skills they have learned.
- The Math/Stats 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 from clients both on and off campus.
- 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.
- 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 math score of 25 or more or an SAT math score of 570 or more indicate 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 math score or SAT math score and in some cases a placement exam administered at NKU.

**You should also know:**

- A grade below a C- is not applicable to the 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 credits of courses applicable to either major.
- A student majoring in mathematics seeking an area of concentration 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 an area of concentration 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		Credits
MAT 129	Calculus I <b>and</b>	
MAT 229	Calculus II	
	<b>OR</b>	
MAT 128	Calculus A,	
MAT 227	Calculus B <b>and</b>	
MAT 228	Calculus C	9
MAT 329	Calculus III	4
MAT 194	Mathematical Sciences Seminar	1



MAT 234	Linear Algebra	3
STA 250	Probability and Statistics I	3
MAT 497	Mathematical Sciences Capstone	3
OR An approved capstone experience		
<b>Core Credits in Mathematics and Statistics</b>		<b>23</b>
<b>Core Courses in Other Disciplines</b>		
CSC 270	Mathematics Software Programming	3
OR		
INF 260	Object-Oriented Programming I	
<b>Core Credits in Other Disciplines</b>		<b>3</b>
<b>TOTAL CORE CREDITS</b>		<b>26</b>

<b>Pure Mathematics Track</b>		<b>Credits</b>
MAT 302	Introduction to Higher Mathematics	3
MAT 310	Elementary Theory of Numbers	3
OR		
MAT 410	Abstract Algebra I	
MAT 420	Real Variables I	3
OR		
MAT 430	Complex Variables	
Select 9 additional semester hours of MAT/STA courses at the 300 level or above including at least two 400-level courses		9
<b>TOTAL TRACK CREDITS</b>		<b>18</b>
<b>Total Core Credits</b>		<b>26</b>
<b>TOTAL CREDITS</b>		<b>44</b>

<b>Applied Mathematics Track</b>		<b>Credits</b>
MAT 325	Differential Equations	3
Select two courses from the following:		
MAT 330	Classical Applied Analysis	6
MAT 360	Numerical Analysis	
MAT 375	Applied Mathematical Models	
Select 9 additional semester hours of MAT/STA courses at the 300 level or above		9
<b>TOTAL TRACK CREDITS</b>		<b>18</b>
<b>Total Core Credits</b>		<b>26</b>
<b>TOTAL CREDITS</b>		<b>44</b>

<b>General Mathematics Track</b>		<b>Credits</b>
MAT 302	Introduction to Higher Mathematics	3
MAT 345	Introduction to Geometry	3
MAT 310	Elementary Theory of Numbers	3
OR		
MAT 410	Abstract Algebra I	
STA 341	Statistics II	3
Select one set from the following options:		
MAT 310	Elementary Theory of Numbers and	Abstract Algebra I and an additional 300-level or above MAT/STA course
MAT 410		
OR		
MAT 325	Differential Equations and	Classical Applied Analysis
MAT 330		
OR		
STA 340	Probability II and	Statistics II and an additional 300-level or above MAT/STA course
STA 341		
OR		

Any two 400-level MAT/STA courses. If one is MAT 410, there must be an additional 300-level or above MAT/STA course.		6
<b>TOTAL TRACK CREDITS</b>		<b>18</b>
<b>Total Core Credits</b>		<b>26</b>
<b>TOTAL CREDITS</b>		<b>44</b>

### 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.

Students seeking certification to teach mathematics in grades 5-9 should complete the 21-22 credits in the table below. All students pursuing a mathematics/secondary education curriculum should review the part of this catalog relating to 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.

<b>Degree Requirements for Certification in Grades 5-9**</b>		<b>Credits</b>
MAT 140	Mathematics for Elementary and Middle Grades Teacher I	3
MAT 141	Mathematics for Elementary and Middle Grades Teacher II	3
MAT 240	Geometry for Middle School Teachers	3
Select one course from the following:		
INF 101	Computer Literacy and Informatics	3
INF 110	Business Programming	
INF 120	Elementary Programming	
INF 260	Object-Oriented Programming I	
MAT/STA 110	Introductory Probability	3
STA 205	Introduction to Statistical Methods	3
Select two courses from the following:		
MAT 109	Algebra for College Students	3-4
MAT 112	Applied Calculus	
MAT 114	Finite Mathematics	
MAT 115	Mathematics for Liberal Arts	
MAT 119	Pre-Calculus Mathematics	
MAT 128	Calculus A	
OR		
MAT 129	Calculus	
MAT 185	Introductory Discrete Mathematics	
MAT 227	Calculus B	
<b>TOTAL CREDITS</b>		<b>21-22</b>
*In addition to completing the courses listed above, students must complete the requirements for middle grades teacher certification, as described in the teacher education portion of the catalog.		
#As an alternative to the courses in this table, students may complete the requirements for a mathematics major with the general mathematics track <b>AND</b> "MAT 140 Mathematics for Elementary and Middle Grades Teacher I" and "MAT 141 Mathematics for Elementary and Middle Grades Teacher II."		

### 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 core along with a minimum of 18 credits of electives. The electives may be chosen from MAT/STA courses at the 300 level or above (or MAT 234) with at least 9 of these credits being STA courses. There are three recommended tracks:

- Applied statistics designed for those who plan to seek employment in industry as a practicing statistician in positions such as a data analyst or statistical consultant.

- Theoretical statistics for those who plan to pursue graduate studies in statistics.
- Actuarial sciences designed for those who plan to enter the actuarial field and need a solid theoretical background to succeed on the actuarial examinations.

**Degree Requirements: B.S. – Statistics**

Core Courses		Credits
MAT 129	Calculus I and MAT 229 Calculus II	9
	<b>OR</b>	
MAT 128	Calculus A, MAT 227 Calculus B, and MAT 228 Calculus C	
MAT 194	Mathematical Sciences Seminar	1
STA 250	Probability and Statistics I	3
STA 314	Design and Analysis of Experiments	3
STA 341	Statistics II	3
STA 360	Statistical Computing	3
<b>TOTAL CORE CREDITS</b>		<b>22</b>

Applied Statistics Track Recommendation		Credits
STA 312	Elementary Survey Sampling	3
STA 316	Regression Analysis	3
STA 317	Introduction to Time Series Analysis	3
STA 370	Introduction to Statistical Consulting	3
STA 419	Applied Multivariate Statistics	3
MAT 234	Linear Algebra	3
	<b>OR</b>	
Select 3 additional semester hours of MAT/STA courses at the 300 level or above		
<b>TOTAL TRACK CREDITS</b>		<b>18</b>
<b>Total Core Credits</b>		<b>22</b>
<b>TOTAL CREDITS</b>		<b>40</b>

Theoretical Statistics Track Recommendation		Credits
MAT 234	Linear Algebra	3
MAT 329	Calculus III	4
STA 340	Probability II	3
Select 6 additional semester hours of STA courses at the 300 level or above and 3 additional semester hours of MAT/STA courses at the 300 level or above.		9
<b>TOTAL TRACK CREDITS</b>		<b>19</b>
<b>Total Core Credits</b>		<b>22</b>
<b>TOTAL CREDITS</b>		<b>41</b>

Actuarial Sciences Track Recommendation		Credits
MAT 234	Linear Algebra	3
STA 317	Introduction to Time Series Analysis	3
MAT 329	Calculus III	4
STA 340	Probability II	3
STA 450	Introduction to Actuarial Science	3
Select 3 additional semester hours of MAT/STA courses at the 300 level or above		3
<b>TOTAL TRACK CREDITS</b>		<b>19</b>
<b>Total Core Credits</b>		<b>22</b>
<b>TOTAL CREDITS</b>		<b>41</b>

**Mathematics Minor****Minor in Mathematical Sciences**

The minor in mathematical sciences consists of 21 credits of mathematics and statistics courses numbered 110 or above. The course "CSC 270: Mathematics Software Programming" may also be counted toward the minor. A GPA of at least 2.00 in all mathematics and statistics courses is required. The minor is not open to students majoring in either mathematics or statistics.

# DEPARTMENT OF MUSIC

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**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: Brian Hogg

Academic Advisor: Allison Schmidt

Academic Coordinator: Annette Pendery

Greaves Concert Hall Coordinator: Jonathan Eaton

Director of Preparatory Department: Holly Attar

**Full-Time Faculty:** Diana Belland, David Dunevant, Gayle Sheard Grout, William Hogg, Gary Johnston, Brant Karrick, Eric Knechtges, Grant Knox, Scott Lang, Randy Pennington, Francisc Restesan, Raquel Rodriguez, Kurt Sander, Michael VanPelt

**Undergraduate Programs:**

**Majors:**

Bachelor of Music

Performance

Instrumental

Jazz Studies

Keyboard

Piano Accompanying

Piano Pedagogy

Vocal

Music Education

Choral/Vocal

Instrumental

Piano/Choral

Composition

Bachelor of Arts

Music

**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.

**American Choral Directors Association:** Founded in 1959, the American Choral Directors Association is a nonprofit music education organization whose central purpose is to promote excellence in choral music through performance, composition, publication, research, and teaching. In addition, ACDA strives to elevate choral music's position in American society through arts advocacy. Composed of future choral directors, the student chapter

focuses on helping members become more familiar with the national organization and its goals.

**Collegiate Music Educators National Conference (CMENC):** The purpose of the CMENC is to provide future music educators with a connection to the professional world of music education and increased understanding of the role of the CMENC in the field of music teaching.

**Kappa Kappa Psi:** Kappa Kappa Psi is a national honorary fraternity for college band members. The organization operates exclusively with college and university bands as a student service and leadership recognition society whose chief aim is to assist the director of bands in developing the leadership and enthusiasm that is required of his or her band.

**Phi Mu Alpha Sinfonia:** The primary purpose of this fraternity is to encourage and actively promote the highest standards of creativity, performance, education, and research in music in America. Membership is open to any male who is a student in good academic standing or faculty/staff member at NKU who shows love for music by adopting music as his profession or works to advance the cause of music in America.

**Pi Kappa Lambda:** Pi Kappa Lambda is a national honor society in music recognized by membership in the Association of College Honor Societies. Established more than 70 years ago, its purpose is to honor scholarship, musicianship, and personal character. Invitations are extended for membership in Pi Kappa Lambda only to the highest-ranking students (the top 10 percent) from junior, senior, and graduate classes. The elections are the privilege of the faculty committee who are active members of the Eta Phi chapter at NKU.

**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 (3 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 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. All freshmen students majoring in music will be admitted as provisional majors. At the end of the first year (two semesters of applied study), students must pass a freshman proficiency jury as part of the admission process. At the end of four semesters of applied study, students must pass the sophomore comprehensive jury to qualify for upper-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, classical guitar, harp, and harpsichord. Private lessons are provided weekly for a half-hour or one hour. Students studying privately may earn 1 or 2 credit hours. The number of credit hours is determined by the length of the lesson (1/2 hour = 1 semester hour; 1 hour = 2 credit hours). Students will be assigned to applied-lesson instructors by the music chair or a designee. 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.

**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, Brass Choir, 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:** All students majoring in music, unless excused by the chair, must register each semester for "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. Students must earn no fewer than seven passing recital review grades to graduate with a degree in music. "MUS 196: Recital Review" may be waived during a semester of student-teaching placement.

**Recital performance:** All students majoring in music must perform on weekly recital programs as directed by their applied music instructor. 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. Guidelines for the preparation and scheduling of recitals are available from the music office.

**Piano proficiency:** All students majoring in music must pass a piano proficiency examination "MUS 296: Piano Proficiency." Students found to be deficient through the placement test must enroll in a group piano course or private applied piano instruction. Enrollment in these courses will continue until a student is able to pass the proficiency test. Students are expected to take the proficiency examination no later than the end of their sophomore year. Additional piano study beyond that required for the proficiency is highly recommended for music majors in all degree programs.

**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 an advisor from the music faculty. 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: Performance is designed for those 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 49-credit core plus one of the tracks or emphases listed below.

Core Courses in Music		Credits
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	1/2
MUS 125	Aural Skills II	1/2
MUS 126	Aural Skills III	1/2
MUS 127	Aural Skills IV	1/2
MUS 224	Aural Skills V	1/2
MUS 225	Aural Skills VI	1/2
MUS 226	Aural Skills VII	1/2
MUS 227	Aural Skills VIII	1/2
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 19 <sup>th</sup> and 20 <sup>th</sup> Centuries	3
MUS 296	Piano Proficiency	0
MUS 297	Sophomore Comprehensive Jury	0
MUS 312	Computer Applications for Musicians	1
MUS 325	Form and Analysis	3
MUS 352	Conducting I	2
MUS 397	Junior Recital	0
MUS 497	Senior Recital	0
Applied music (major instrument or voice)		16
<b>TOTAL CORE CREDITS</b>		<b>49</b>

<b>Instrumental Emphasis</b>		<b>Credits</b>
MUS 399	Independent Study: Music	3
Large ensembles		8
Small ensembles		6
Music electives		12
<b>TOTAL TRACK CREDITS</b>		<b>29</b>
<b>Total Core Credits</b>		<b>49</b>
<b>TOTAL CREDITS</b>		<b>78</b>

<b>Jazz Studies Emphasis</b>		<b>Credits</b>
MUS 235	Jazz Harmony/Piano I	1
MUS 236	Jazz Harmony/Piano II	1
MUS 237	Jazz Improvisation I	2
MUS 238	Jazz Improvisation II	2
Large ensembles		2
MUS 306	Vocal Jazz Ensemble <b>OR</b>	4
MUS 317	Jazz Ensemble	
MUS 310	Chamber Music Ensembles	6
MUS 321	Jazz Arranging I	2
MUS 322	Jazz Arranging II	2
MUS 323	Jazz Theory	3
MUS 339	History of Jazz	3
MUS 424	Jazz Pedagogy	2
MUS 426	Jazz Styles and Analysis	3
Electives in music		6
<b>TOTAL EMPHASIS CREDITS</b>		<b>38</b>
<b>Total Core Credits</b>		<b>49</b>
<b>TOTAL CREDITS</b>		<b>87</b>

Core courses "MUS 230: History of Music I: Antiquity through Early Baroque" and "MUS 325: Form and Analysis" are not required for this emphasis

<b>Keyboard Emphasis</b>		<b>Credits</b>
MUS 311	Accompanying and Chamber Music	4
MUS 331	Keyboard Literature I	2
MUS 447	Seminar in Piano Pedagogy	3
Ensembles (must have advisor's approval)		4
Electives in music		12
<b>TOTAL TRACK CREDITS</b>		<b>25</b>
<b>Total Core Credits</b>		<b>49</b>
<b>TOTAL CREDITS</b>		<b>74</b>

<b>Piano Accompanying Emphasis</b>		<b>Credits</b>
MUS 305	Ensemble Accompanying	13
MUS 311	Accompanying and Chamber Music	4
MUS 170	Applied Piano Accompanying	4
MUS 270	Applied Piano Accompanying	4
Electives in music		8
<b>TOTAL EMPHASIS CREDITS</b>		<b>33</b>
<b>Total Core Credits</b>		<b>49</b>
<b>TOTAL CREDITS</b>		<b>82</b>

<b>Piano Pedagogy Emphasis</b>		<b>Credits</b>
MUS 311	Accompanying and Chamber Music	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
Ensemble		7
Electives in music		5
<b>TOTAL EMPHASIS CREDITS</b>		<b>30</b>
<b>Total Core Credits</b>		<b>49</b>
<b>TOTAL CREDITS</b>		<b>79</b>

<b>Vocal Emphasis</b>		<b>Credits</b>
Two years of foreign language selected in consultation with an applied voice teacher		12
MUS 301	The Northern Chorale <b>OR</b>	6
MUS 302	Chamber Choir	
MUS 304	Opera Workshop <b>OR</b>	3
MUS 310	Chamber Music Ensembles	
MUS 354	Lyric Diction I	3
MUS 355	Lyric Diction II	3
MUS 333	Vocal Literature	3
MUS 446	Vocal Pedagogy	3
MUS 185	Applied Piano	2
MUS 285	Applied Piano	2
Electives in music		5
<b>TOTAL TRACK CREDITS</b>		<b>42</b>
<b>Total Core Credits</b>		<b>49</b>
<b>TOTAL CREDITS</b>		<b>91</b>

### 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 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 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 area of concentration.

**Degree Requirements: B.M. – Music Education**

<b>Core Courses In Music</b>		<b>Credits</b>
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	1/2
MUS 125	Aural Skills II	1/2
MUS 126	Aural Skills III	1/2
MUS 127	Aural Skills IV	1/2
MUS 224	Aural Skills V	1/2
MUS 225	Aural Skills VI	1/2
MUS 226	Aural Skills VII	1/2
MUS 227	Aural Skills VIII	1/2
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 19 <sup>th</sup> Century	3
MUS 337	History of Music III: Mid 19 <sup>th</sup> and 20 <sup>th</sup> Centuries	3
MUS 296	Piano Proficiency	0
MUS 297	Sophomore Comprehensive Jury	0
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
MUS 352	Conducting I	2
MUS 353	Conducting II	3
MUS 397	Junior Recital	0
Applied music (major instrument or voice)		14
<b>Core Credits In Music</b>		<b>55</b>
<b>Core Courses In Other Disciplines</b>		
EDU 104	Orientation: Education Profession/Program	1
EDU 300	Human Growth and Development	3
EDU 311	Admission Practicum for Secondary Grades	2
EDU 325	Educational Assessment: Secondary	2
EDU 496	Student Teaching in Secondary School	12
EDS 324	Instructional Planning for Inclusive Secondary Classroom	2
EDS 360	Students with Exceptionalities in the Schools	2
<b>Core Credits in Other Disciplines</b>		<b>24</b>
<b>TOTAL CORE CREDITS</b>		<b>79</b>

<b>Choral/Vocal Track</b>		<b>Credits</b>
MUS 249	Instruments for Singers, Pianists, and Guitarists	1
MUS 336	Choral Literature	3
MUS 342	General and Choral Music in the Secondary School	3
MUS 354	Lyric Diction I	3
MUS 446	Vocal Pedagogy	3
Ensembles		7
<b>TOTAL TRACK CREDITS</b>		<b>20</b>
<b>Total Core Credits</b>		<b>79</b>
<b>TOTAL CREDITS</b>		<b>99</b>

<b>Instrumental Track</b>		<b>Credits</b>
MUS 146	Group Voice	1
MUS 241	Applied Methods and Materials: Brass	1
MUS 243	Applied Methods and Materials: Woodwinds	1
MUS 245	Applied Methods and Materials: Strings	1
MUS 247	Applied Methods and Materials: Percussion	1
MUS 341	Instrumental Music 6-12	3
MUS 343	Marching Band Methods	3
Large ensembles		7
Small ensembles		6
<b>TOTAL TRACK CREDITS</b>		<b>24</b>
<b>Total Core Credits</b>		<b>79</b>
<b>TOTAL CREDITS</b>		<b>93</b>

<b>Piano/Choral Track</b>		<b>Credits</b>
MUS 249	Instruments for Singers, Pianists, and Guitarists	1
MUS 311	Accompanying and Chamber Music	4
MUS 336	Choral Literature	3
MUS 342	General and Choral Music in the Secondary School	3
MUS 354	Lyric Diction I	3
MUS 446	Vocal Pedagogy	3
Ensembles		7
Secondary applied voice		4
<b>TOTAL TRACK CREDITS</b>		<b>28</b>
<b>Total Core Credits</b>		<b>79</b>
<b>TOTAL CREDITS</b>		<b>108</b>

**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**

<b>Courses</b>		<b>Credits</b>
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	1/2
MUS 125	Aural Skills II	1/2
MUS 126	Aural Skills III	1/2
MUS 127	Aural Skills IV	1/2
MUS 224	Aural Skills V	1/2
MUS 225	Aural Skills VI	1/2
MUS 226	Aural Skills VII	1/2
MUS 227	Aural Skills VIII	1/2
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 19 <sup>th</sup> Century	3
MUS 337	History of Music III: Mid 19 <sup>th</sup> and 20 <sup>th</sup> Centuries	3
MUS 296	Piano Proficiency	0

MUS 297	Sophomore Comprehensive Jury	0
MUS 312	Computer Applications for Musicians	1
MUS 313	Advanced Electronic and Computer Music Techniques	3
MUS 324	Orchestration	3
MUS 325	Form and Analysis	3
MUS 326	Materials and Techniques of Music Composition	2
MUS 327	Counterpoint	3
MUS 352	Conducting I	2
MUS 397	Junior Recital	0
MUS 228	Applied Composition I	2
MUS 229	Applied Composition II	2
MUS 328	Applied Composition III	2
MUS 329	Applied Composition IV	2
MUS 428	Applied Composition V	2
MUS 429	Applied Composition VI	2
Applied music (major instrument or voice)		8
Applied piano or secondary instrument (piano required for non-piano majors)		4
Large ensembles		4
Small ensembles		4
Electives in music (must have advisor's approval)		6
<b>TOTAL CREDITS</b>		<b>82</b>

### 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. Students have combined the degree with an area of concentration 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

Courses	Credits	
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	1/2
MUS 125	Aural Skills II	1/2
MUS 126	Aural Skills III	1/2
MUS 127	Aural Skills IV	1/2
MUS 224	Aural Skills V	1/2
MUS 225	Aural Skills VI	1/2
MUS 226	Aural Skills VII	1/2
MUS 227	Aural Skills VIII	1/2
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 19 <sup>th</sup> Century	3
MUS 337	History of Music III: Mid 19 <sup>th</sup> and 20 <sup>th</sup> Centuries	3
MUS 296	Piano Proficiency	0
MUS 297	Sophomore Comprehensive Jury	0
MUS 312	Computer Applications for Musicians	1
MUS 325	Form and Analysis	3

Applied music (major instrument)	8
Electives in music (must have advisor's approval)	12
Ensembles	6
<b>TOTAL CREDITS</b>	<b>57</b>

### Music Minor

Requirements for Minor: Music	Credits	
MUS 122	Music Theory I	3
MUS 123	Music Theory II	3
MUS 124	Aural Skills I	1/2
MUS 125	Aural Skills II	1/2
MUS 126	Aural Skills III	1/2
MUS 127	Aural Skills IV	1/2
Select two from the following:		
MUS 230	History of Music I: Antiquity through Early Baroque	6
MUS 231	History of Music II: Late Baroque to Mid 19 <sup>th</sup> Century	
MUS 337	History of Music III: Mid 19 <sup>th</sup> and 20 <sup>th</sup> Centuries	
Applied music		2
Ensembles		2
Electives in music		8
<b>TOTAL CREDITS</b>		<b>26</b>

### Music Undergraduate Certificate

#### Certificate in Piano Pedagogy

The Certificate in Piano Pedagogy is a 34-credit 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 4-year degree program in the Bachelor of Music in Performance with an emphasis in piano pedagogy.

Requirements for Certificate: Piano Pedagogy	Credits	
MUS 122	Music Theory I	3
MUS 123	Music Theory II	3
MUS 124	Aural Skills I	1/2
MUS 125	Aural Skills II	1/2
MUS 126	Aural Skills III	1/2
MUS 127	Aural Skills IV	1/2
MUS 296	Piano Proficiency	0
MUS 311	Accompanying and Chamber Music	2
MUS 331	Keyboard Literature I	2
MUS 332	Keyboard Literature II	
MUS 345	Keyboard Skills I	1
MUS 346	Keyboard Skills II	1
MUS 348	Piano Pedagogy I	3
MUS 349	Piano Pedagogy II	3
MUS 448	Piano Pedagogy III	3
MUS 449	Piano Pedagogy IV	3
Applied piano		8
<b>TOTAL CREDITS</b>		<b>34</b>

# DEPARTMENT OF PHYSICS AND GEOLOGY

**Location:** Herrmann Science Center 204H

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**Department Chair:** John Filaseta

**Other Key Personnel:**

Director of Geology: John Rockaway

Director of Pre-Engineering: C. Dale Elifrits

Director of Engineering Technology: Morteza Sadat-Hossieny

Academic Advisor: Nikki Gamm

Department Coordinator: Diana Estep

Department Assistant: Pam Kremer

Planetarium Director: Dan Spence

Lab Technician: Mike Lehrter

Planetarium Artist: Greg Thomas

**Full-Time Faculty:** Seyed Allameh, Janet Bertog, Samuel Boateng, Wayne Bresser, John Filaseta, Sharmanthie Fernando, Charles Hawkins, Sarah Johnson, Raymond McNeil, Scott Nutter, John Rockaway, Morteza Sadat-Hossieny, Karl Vogler, Brian Warner, Harold Wiebe, Matthew Zacate

**Undergraduate Programs:**

**Majors:**

Bachelor of Science and Bachelor of Arts

Geology

Physics

Bachelor of Arts

Teacher Education Certification in Earth and Space Science

Teacher Education Certification in Physics

**Minors:**

Geology

Physics

Evolutionary Studies (see interdisciplinary section of catalog)

**Engineering technology** and Pre-engineering **programs** are offered by the Department of Physics and Geology. They are described in detail following the description of the physics and geology programs.

**You should also know:** Transfer students majoring in any of the degree programs offered by this department (physics, geology, or engineering technology) must complete at least 9 semester hours of the applicable discipline-specific courses for the major at NKU. A minimum of 6 semester hours of the applicable courses for any minor in the department must be completed at NKU.

## Geology

**Thinking about the discipline:** Geology is the study of the earth, its origin, its history, and the dynamics of how it changes. As such, geologists may be considered "stewards" or caretakers of the Earth, and they work to understand how natural processes affect our daily lives. For example, geologists provide essential information for answering questions about how 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

Courses in Geology		Credits
GLY 110	The Face of the Earth with Laboratory	4
GLY 220	History of the Earth	3
GLY 315	Structural Geology with Laboratory	4
GLY 330	Geomorphology with Laboratory	4
GLY 335	Earth Materials	4
GLY 340	Introduction to Environmental Geoscience	3
GLY 394	Seminar: Geology	1
GLY 420	Stratigraphy and Sedimentation with Laboratory	4
GLY 425	Economic Geology	3
GLY 450	Hydrogeology	4
Select two GLY electives at the 100 or 200 level:		
GLY 120	This Dangerous Earth	6
GLY 150	Introduction to Field Paleontology	
GLY 225	Prehistoric Life	
GLY 230	Geology of National Parks	
GLY 240	Natural Resources, Energy and the Environment	
GLY 250	Geology Northern Kentucky Area	
Select three GLY electives at the 300 level or above:		
GLY 341	Soil Science	9-12
GLY 350	Field Paleontology	
GLY 360	Introduction to Geophysics	
GLY 402	Invertebrate-Paleontology with Laboratory	
GLY 416	Geologic Field Methods	
GLY 435	Sedimentary Petrology and Petrography	
GLY 440	Applied Geophysics	
GLY 455	Groundwater Resources and Management with Laboratory	
<b>Credits in Geology</b>		



Courses in Other Disciplines		
CHE 120/120L	General Chemistry I with Laboratory	4
CHE 121/121L	General Chemistry II with Laboratory	4
MAT 119	Pre-Calculus Mathematics	3
Select one course from the following:		
MAT 128	Calculus A	3
MAT 129	Calculus I	
STA 205	Introduction to Statistical Methods	
PHY 211	General Physics I with Laboratory	5
PHY 213	General Physics II with Laboratory	5
<b>Credits in other Disciplines</b>		<b>24</b>
<b>TOTAL CREDITS</b>		<b>74-75</b>

### Bachelor of Arts with a major in Geology

The Bachelor of Arts in geology requires 30 semester hours of geology courses, of which at least 15 hours must be numbered 300 or higher. This degree 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.

### Physics

**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 minor. 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 such 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 2700 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

#### 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 semester hours in 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 Science in physics need to take at least 8 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 two 3-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

Courses in Physics		Credits
PHY 220	University Physics I with Laboratory*	4
PHY 222	University Physics II with Laboratory*	4
PHY 224	University Physics III with Laboratory*	4
PHY 300	Intermediate Physics Laboratory	2
PHY 301	Advanced Physics Laboratory	2
PHY 310	Dynamics	3
PHY 360	Thermodynamics	3
PHY 361	Modern Physics I*	3
PHY 410	Electromagnetic Theory	4
PHY 460	Quantum Mechanics	3
PHY 494	Physics Seminar	1
Select two courses from the following list:		
PHY 330	Mathematical Physics	6
PHY 420	Modern Physics II	
PHY 320	Physical Optics	
PHY or AST course at the 300 level or above		3
<b>Credits in Physics</b>		<b>42</b>
Courses in Other Disciplines		
CHE 120/120L	General Chemistry I with Laboratory	4
CHE 121/121L	General Chemistry II with Laboratory	4
MAT 129	Calculus I**	4
MAT 229	Calculus II**	5
MAT 329	Calculus III	4
MAT 325	Differential Equations	3
<b>Credits in Other Disciplines</b>		<b>24</b>
<b>TOTAL CREDITS</b>		<b>66</b>

\*A C- or better is required to proceed to next level physics course.

\*\*PHY 330 Mathematical Physics and PHY 420 Modern Physics II are recommended for students planning to pursue graduate work in physics.

\*\*\*MAT 128: Calculus A, "MAT 227: Calculus B," "MAT 228: Calculus C" can be taken instead of "MAT 129: Calculus I" and "MAT 229: Calculus II"

#### 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 degree of Bachelor of Arts in Physics requires 33 semester 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, or mathematics are highly recommended.

### Degree Requirements: B.A. – Physics

Courses in Physics		Credits
PHY 220	University Physics I with Laboratory*	4
PHY 222	University Physics II with Laboratory*	4
PHY 224	University Physics III with Laboratory*	4
PHY 300	Intermediate Physics Laboratory	2
PHY 310	Dynamics	3
PHY 360	Thermodynamics	3
PHY 361	Modern Physics I*	3
PHY 494	Physics Seminar	1
Nine credits of PHY or AST 300 level or above		9
<b>Credits in Physics</b>		<b>33</b>
Courses in Other Disciplines		
CHE 120/120L	General Chemistry I with Laboratory	4
CHE 121/121L	General Chemistry II with Laboratory	4
MAT 129	Calculus I**	4
MAT 229	Calculus II**	5
MAT 329	Calculus III	4
MAT 325	Differential Equations	3
<b>Credits in Other Disciplines</b>		<b>24</b>
<b>TOTAL CREDITS</b>		<b>57</b>

\*A C- or better is required to proceed to next level physics course

\*\*MAT 128: Calculus A, "MAT 227: Calculus B," "MAT 228: Calculus C" can be taken instead of "MAT 129: Calculus I" and "MAT 229: Calculus II"

### Physics and Geology Minors

#### Minor in Geology

A minor in geology consists of 21 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 semester hours of physics and astronomy. Students who minor in physics must complete one of the following sequences in physics: "PHY 211: General Physics I with Laboratory" and "PHY 213: General Physics II with Laboratory"; **OR** "PHY 220: University Physics I with Laboratory," "PHY 222: University Physics II with Laboratory," and "PHY 224: University Physics III with Laboratory." Credit in PHY 110 cannot be applied to the minor. A minimum of 3 semester hours of physics or astronomy courses numbered above 300 must be included.

### Other Physics and Geology Programs

#### Astronomy Program

The study of astronomy is an excellent means with which to present scientific procedure to 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 neither a major nor a minor is currently offered in astronomy, courses in astronomy may be used to satisfy the general education requirement in natural sciences. Astronomy courses support the science requirements for the 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.

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

##### Major 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.

##### Major 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

**Fax:** 859-572-1513

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

**Web Address:** <http://engtech.nku.edu/>

**Director of Engineering Technology:** Morteza Sadat-Hossieny

**Other Key Personnel:**

Chair: John Filaseta

Engineering Technology Secretary: Pam Kremer

Lab Technician: Mike Lehrter

**Full-Time Faculty:** Seyed Allameh, Brian Warner, Harold Wiebe

**Undergraduate Programs:**

**Majors:**

Bachelor of Science

Electronics Engineering Technology

Mechanical and Manufacturing Engineering Technology

**Minors:**

Electronics Technology

Advanced Technology

Industrial Technology

**Certificates:**

Automated Manufacturing Processes and Systems

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:** C. Dale Elifrits

**Department Chair:** John Filaseta

## 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 a TAC-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 program is 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 2nd year and typically leads to an offer of 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), 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 U.S., 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 semester hours of the applicable discipline-specific courses for the major at NKU. A minimum of 6 semester hours of the applicable courses for any minor in the department must be completed at NKU.

## 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 2nd year at school, which often continues and leads to full-time employment.

The EET program is accredited by the Technology Accreditation Commission of ABET Inc., 111 Market Place, Suite 1050, Baltimore, MD 20202-4012, telephone 410-347-7700.

Students are required to complete the core and a subspecialty area.

### Degree Requirements: B.S. – Electronics Engineering Technology

Core Courses in Electronics Engineering Technology		Credits
EGT 161	D.C. Circuit Analysis	3
EGT 212	Computer Aided Drafting & Design	3
EGT 261	Engineering Materials	3
EGT 280	Introduction to Microtechnology	3
EGT 300	Statics and Strength of Materials	3
EGT 301	Cooperative Education in Engineering Technology	3
EGT 310	Project Management and Problem Solving	3
EGT 343	A.C. Circuit Analysis	3
EGT 344	Analog Electronics	3
EGT 345	Digital Electronics	3
EGT 367	Microprocessors	3
EGT 386	Electro-Mechanical Instrumentation and Control	3
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
<b>Core Credits in Electronics Engineering Technology</b>		<b>48</b>

<b>Core Courses in Other Disciplines</b>		
CHE 120/120L	General Chemistry I with Laboratory	4
INF 120	Elementary Programming	3
MAT 119	Pre-Calculus Mathematics	3
MAT 128	Calculus A <b>and</b> MAT 227 Calculus B <b>OR</b>	4 or 6
MAT 129	Calculus I	
PHY 211	General Physics I with Laboratory	5
PHY 213	General Physics II with Laboratory	5
STA 205	Introduction to Statistical Methods	3
<b>Core Credits in Other Disciplines</b>		<b>27 or 29</b>
<b>TOTAL CORE CREDITS</b>		<b>75-77</b>

Select one subspecialty (12 hours) plus 9 hours of elective EGT courses (in the tracks below) for a total of 21 credit hours.

<b>Systems and Design Track</b>		<b>Credits</b>
EGT 320	Robotic Systems and Material Handling	3
EGT 408	Mechatronics Topics	3
EGT 412	Advanced CADD	3
EGT 462	Finite Element Modeling	3
<b>TOTAL TRACK CREDITS</b>		<b>12</b>

<b>Fundamental of Engineering Track</b>		<b>Credits</b>
EGT 318	Introduction to Nanotechnology	3
EGT 340	Applied Dynamics	3
EGT 361	Fluid Power	3
EGT 450	Thermodynamics and Heat Transfer	3
<b>TOTAL TRACK CREDITS</b>		<b>12</b>

<b>Quality Track</b>		<b>Credits</b>
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
<b>TOTAL TRACK CREDITS</b>		<b>12</b>
<b>TOTAL Subspecialty and elective credits</b>		<b>21</b>
<b>TOTAL Core credits</b>		<b>75-77</b>
<b>TOTAL CREDITS</b>		<b>96-98</b>

### 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 2nd 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 Technology Accreditation Commission of ABET Inc., 111 Market Place, Suite 1050, Baltimore, MD 20202-4012, telephone 410-347-7700.

Students are required to complete the core plus one area of emphasis.

### Degree Requirements: B.S. – Mechanical and Manufacturing Engineering Technology

<b>Core Courses In MMET</b>		<b>Credits</b>
EGT 116	Introduction to Industrial Materials and Processes	3
EGT 161	D.C. Circuit Analysis	3
EGT 211	Quality Control	3
EGT 212	Computer Aided Drafting and Design	3
EGT 261	Engineering Materials	3
EGT 265	Manufacturing Processes and Metrology	3
EGT 300	Statics and Strength of Materials	3
EGT 301	Cooperative Education in Engineering Technology	3
EGT 310	Project Management and Problem Solving	3
EGT 318	Introduction to Nanotechnology	3
EGT 320	Robotic Systems and Material Handling	3
EGT 340	Applied Dynamics	3
EGT 361	Fluid Power	3
EGT 365	Tool Design and Computer Numerical Control	3
EGT 380	Machine Design	3
EGT 417	Senior Design in Technology (May be repeated up to three times)	3
EGT 423	Planning and Design of Industrial Facilities	3
EGT 450	Thermodynamics and Heat Transfer	3
EGT 465	Automated Manufacturing Systems	3
Select two courses from the following:		
EGT 260	Industrial Standards, Safety and Codes	
EGT 280	Introduction to Microtechnology	
EGT 386	Electro-Mechanical Instrumentation and Control	6
EGT 405	Metrology and Geometric Tolerancing	
EGT 411	Quality Assurance and Auditing	
<b>Core Credits in MMET</b>		<b>63</b>

<b>Core Courses in Other Disciplines</b>		
CHE 120/120L	General Chemistry I with Laboratory	4
INF 120	Elementary Programming <b>OR</b>	3
INF 110	Business Programming	
MAT 119	Pre-Calculus Mathematics	3
MAT 128	Calculus A <b>and</b> MAT 227 Calculus B <b>OR</b>	4 or 6
MAT 129	Calculus I	
PHY 211	General Physics I with Laboratory	5
PHY 213	General Physics II with Laboratory	5
STA 205	Introduction to Statistical Methods	3
<b>Core Credits in Other Disciplines</b>		<b>27 or 29</b>
<b>TOTAL CORE CREDITS</b>		<b>90 or 92</b>

<b>Design Emphasis</b>		<b>Credits</b>
EGT 412	Advanced CADD	3
EGT 462	Finite Element Modeling	3
<b>TOTAL EMPHASIS CREDITS</b>		<b>6</b>
<b>Total Core Credits</b>		<b>90 or 92</b>
<b>TOTAL CREDITS</b>		<b>96 or 98</b>

Quality Emphasis		Credits
EGT 321	Productivity Management, Scheduling, and Planning	3
EGT 341	Integrated Resource Management	3
<b>TOTAL EMPHASIS CREDITS</b>		<b>6</b>
<b>Total Core Credits</b>		<b>90 or 92</b>
<b>TOTAL CREDITS</b>		<b>96 or 98</b>

Optional concentrations:

- Students interested in ASQ or SME certificate preparation should take EGT 321, EGT 341, and EGT 411.
- Students interested in micro-fabrications should take EGT 280.
- Students interested in systems and controls courses should take EGT 386 and EGT 260.
- Students interested in ISO standards should take EGT 260 and EGT 405.

## Engineering Technology Minors

### Minor in Electronics Technology

The minor in electronics technology is designed to offer expertise in electronics to those students who need or want this background as a supplement to majors in technology, mathematics, computer science, information systems, radio/television, or other programs that may directly or indirectly interact with electrical or electronic skills.

Requirements for Minor: Electronics Technology		Credits
EGT 161	D.C. Circuit Analysis	3
EGT 343	AC Circuit Analysis	3
EGT 344	Analog Electronics	3
EGT 345	Digital Electronics	3
Select 9 credit hours from the courses listed under EET program subspecialties.		9
<b>TOTAL CREDITS</b>		<b>21</b>

### Minor in Advanced Technology

The minor in advanced technology is designed to supplement the knowledge and expertise of students majoring in math, science, and engineering technology fields in the areas of microsystems, nanotechnology, and other emerging technologies.

Requirements for Minor: Advanced Technology		Credits
EGT 161	D.C. Circuit Analysis	3
EGT 261	Engineering Materials	3
EGT 280	Introduction to Microtechnology	3
EGT 310	Project Management and Problem Solving	3
EGT 318	Introduction to Nanotechnology	3
EGT 386	Electro-Mechanical Instrumentation and Control	3
STA 205	Introduction to Statistical Methods	3
<b>TOTAL CREDITS</b>		<b>21</b>

### Minor in Industrial Technology

The minor in industrial technology is designed to supplement the knowledge and expertise of students majoring in design, problem solving, project management, materials processes, robotics, and materials handling.

Requirements for Minor: Industrial Technology		Credits
EGT 161	D.C. Circuit Analysis	3
EGT 212	Computer Aided Design and Drafting	3
EGT 310	Project Management and Problem Solving	3
EGT 320	Robotics Systems and Material Handling	3
EGT 316	Materials Processing and Fabrication	3
Select two EGT-approved courses at the 300 or 400 level		6
<b>TOTAL CREDITS</b>		<b>21</b>

## Engineering Technology Undergraduate Certificates

### Certificate in Automated Manufacturing Processes and Systems

This program is the result of collaboration between NKU and Mazak Corporation. Under the collaboration, NKU faculty members team with Mazak engineers to use Mazak's industrial manufacturing laboratory and other facilities to educate students. The NKU engineering technology faculty are committed to quality education and training needed by individuals to function effectively in a technological environment. Mazak Corporation is committed to serving as a model corporate citizen supporting programs that advance the manufacturing industry and improve the learning environment for manufacturing students.

Requirements for Certificate: Automated Manufacturing Processes and Systems		Credits
EGT 161	D.C. Circuit Analysis	3
EGT 212	Computer Aided Drafting and Design	3
EGT 265	Manufacturing Processes and Metrology	3
EGT 301	Cooperative Education in Engineering Technology	3
EGT 320	Robotics Systems and Material Handling	3
EGT 365	Tool Design and Computer Numerical Control	3
EGT 386	Electro-Mechanical Instrumentation and Control	3
<b>TOTAL CREDITS</b>		<b>21</b>

### 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-semester hours is required for this certificate program.

Requirements for Certificate: Manufacturing Processes		Credits
EGT 116	Introduction to Industrial Materials and Processes	3
EGT 161	D.C. Circuit Analysis	3
EGT 211	Quality Control	3
EGT 212	Computer Aided Drafting and Design	3
EGT 365	Tool Design and Computer Numerical Control	3
EGT 412	Advanced CADD	3
MAT 119	Pre-Calculus Mathematics	3
<b>TOTAL CREDITS</b>		<b>21</b>

### Certificate in Technological Leadership and Innovation

The technology 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
EGT 211	Quality Control	3
EGT 318	Introduction to Nanotechnology	3
EGT 321	Productivity Management, Scheduling, and Planning	3
ENTP 300	Principles of Entrepreneurship	3
ENTP 333	New Venture Management	3
LDR 305	Human Relations in Organizations	3
LDR 308	Leadership in Organizations	3
<b>TOTAL CREDITS</b>		<b>21</b>

## 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 2 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 2 years will be completed at a campus such as the University of Kentucky or the University of Louisville. These last 2 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 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		Credits
MAT 129	Calculus I	4
MAT 229	Calculus II	5
MAT 329	Calculus III	4
MAT 325	Differential Equations	3
PHY 100	Introduction to Science, Engineering and Design	1
PHY 220	University Physics I with Laboratory	4
PHY 222	University Physics II with Laboratory	4
PHY 224	University Physics III with Laboratory	4
PHY 305	Statics	3
PHY 310	Dynamics	3
CHE 120/CHE 120L	General Chemistry I with Laboratory	4
ENG 101	College Writing	3
CMST 101	Principles of Speech Communication	3
EGT 212	Computer Aided Drafting	3
ECO 201	Principles of Microeconomics	3
Technical elective – PHY 360 Thermodynamics		3
General education electives		9

Total Recommended Minimum for Transfer to a B.S. Engineering Degree Program		63
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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		Credits
MAT 129	Calculus I	4
MAT 229	Calculus II	5
MAT 329	Calculus III	4
MAT 325	Differential Equations	3
PHY 100	Introduction to Science, Engineering, and Design	1
PHY 220	University Physics I with Laboratory	4
PHY 222	University Physics II with Laboratory	4
PHY 224	University Physics III with Laboratory	4
PHY 305	Statics	3
CHE 120/ CHE 120L	General Chemistry I with Laboratory	4
CHE 121/ CHE 121L	General Chemistry II with Laboratory	4
CHE 310/ CHE 310L	Organic Chemistry I with Laboratory	4
CHE 311/ CHE 311L	Organic Chemistry II with Laboratory	4
ENG 101	College Writing	3
CMST 101	Principles of Speech Communication	3
EGT 212	Computer Aided Drafting	3
General education electives		6
<b>Total Recommended Minimum for Transfer to a B.S. Engineering Degree Program</b>		<b>63</b>

**Transfer and degree completion:** NKU has transfer programs with the College of Engineering at the University of Kentucky and with the Speed Scientific School at the University of Louisville. Students may elect to transfer to other schools or colleges of engineering. Grades of C or better are required for successful transfer of credit. The director of pre-engineering will assist in the transfer for all pre-engineering students.

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 UofL in the Speed School, degrees are offered in chemical, civil, electrical, industrial, and mechanical engineering, and ABET-accredited degrees are offered at the master's level in these fields.

**Dual Degree Option for Pre-Engineers:** Transferring from NKU to engineering degree programs elsewhere generally requires at least 2 years of study at NKU and then an additional 2 (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 bachelors degree in physics (or chemistry) from NKU if they complete 3 years of study at NKU prior to transferring to an engineering school. The 4th 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 bachelors 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 AND CRIMINAL JUSTICE

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**Telephone:** 859-572-5321

**Fax:** 859-572-6184

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

**Web Address:** <http://www.nku.edu/~psc/>

**Department Chair:** Shamima Ahmed

**Other Key Personnel:**

Program Coordinator for Political Science: Shauna Reilly

Program Coordinator for Criminal Justice: Melissa Moon

Program Coordinator for Organizational Leadership: Megan Downing

Retention Specialist: Aprile Redden

Internship Coordinator: Caroline Braden

Department Coordinator: Vivian Colemire

Secretary: Margo Wheatley

**Full-Time Faculty:** Shamima Ahmed, Michael Baranowski, Michael Bush, Kent Curtis, Megan Downing, Tom Edwards, Clinton Hewan, Cheryl Jonson, Edward Kwon, Thomas Lambert, Gary Mattson, Bruce McClure, Danielle McDonald, Jonathan McKenzie, Alexis Miller, Whitney McIntyre Miller, Marcos Misis, Melissa Moon, Julie Olberding, Aprile Redden, Shauna Reilly, Ryan Salzman, Alison A. Schuelke, Jill Shelley, Amy Thistlethwaite, Kimberly Weir

**Undergraduate Programs:**

**Majors:**

Bachelor of Arts

Political Science

Criminal Justice

Organizational Leadership

Bachelor of Science

Political Science

**Minors:**

Criminalistics

Criminal Justice

Organizational Leadership

Political Science

Public Service

**Associate Degree:**

Criminal Justice

**Certificates:**

Civic Engagement

Organizational Leadership

**Interdisciplinary programs** (see interdisciplinary section of catalog)

**Majors**

International Studies

**Minors**

International Studies

Japanese Studies

Latin American and Caribbean Studies

Middle Eastern and North African Studies

Pre-Law

**Certificate**

Geographic Information Systems

**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 the 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), and Alpha Phi Sigma (national criminal justice honor society).

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, or criminal justice must earn at least a C- in each course counted as part of the major or minor. Students majoring in organizational leadership must earn a minimum of a 2.00 GPA in all major required courses in addition to the university overall 2.00 GPA requirement. Students can complete an associate degree or bachelor's degree in criminal justice in a fully online format. For more information, contact Educational Outreach.

## Political Science and Criminal Justice Majors

### Bachelor of Arts with a major in Political Science

The major in political science provides a comprehensive understanding of politics – a process by which benefits and burdens are given out through public means. It does so by acquainting students with the literature of the discipline in six areas of specialization (American politics, comparative politics, international politics, law, political theory, and public policy and analysis) 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 and in service to the community.

There are 15 hours of required classes for the Bachelor of Arts degree. In addition, students are required to complete 36 hours from the six content areas, with a minimum of one course from each of the areas listed below.

**Degree Requirements: B.A. – Political Science**

Courses		Credits
PSC 100	American Politics <b>OR</b>	3
PSC 101	State and Local Politics	
PSC 102	Comparative Politics	3
PSC 103	International Politics	3
PSC 110	History of Western Political Thought	3
PSC 315	Scope and Methods (must be taken within the first 96 hours)	3
Select 36 credits from the areas listed below. A minimum of one course is to be chosen from each area.		
<b>American Government</b>		
PSC 302	The American Presidency (3 credits)	
PSC 303	The American Legislature (3 credits)	
PSC 310	Political Behavior (3 credits)	
PSC 311	Political Parties and Elections (3 credits)	
PSC 320	American Politics in Film (3 credits)	
PSC 394	Topics: American Government (3 credits)	
PSC 415	United States Foreign Policy* (3 credits)	
PSC 430	Politics and the Media (3 credits)	
PSC 496	Internship and Practicum in Political Science (1-5 credits)	
PSC 499	Readings and Practicum for Seniors (1-3 credits)	
<b>Comparative Politics</b>		
PSC 330	Politics of Europe (3 credits)	
PSC 335	Politics of Latin America (3 credits)	
PSC 366	Politics of Africa (3 credits)	
PSC 380	Politics of the Middle East (3 credits)	
PSC 382	Politics of Canada (3 credits)	
PSC 388	Politics of Asia (3 credits)	
PSC 394	Topics: Comparative Politics (3 credits)	
PSC 485	Comparative Foreign Policy (3 credits)	
PSC 496	Internship and Practicum in Political Science (1-15 credits)	
PSC 499	Readings and Practicum for Seniors (1-3 credits)	
<b>International Politics</b>		
PSC 322	International Politics in Film (3 credits)	
PSC 338	U.S. Foreign Policy and the Developing World (3 credits)	
PSC 350	Diplomacy and Negotiation (3 credits)	
PSC 394	Topics: International Politics (3 credits)	
PSC 410	International Political Economy (3 credits)	
PSC 415	United States Foreign Policy* (3 credits)	
PSC 425	Sex in Global Society (3 credits)	
PSC 470	The Post-Cold War World (3 credits)	
PSC 480	International Law** (3 credits)	
PSC 481	International Organization (3 credits)	
PSC 486	Conflict and Security (3 credits)	
PSC 496	Internship and Practicum in Political Science (1-15 credits)	
PSC 499	Readings and Practicum for Seniors (1-3 credits)	
<b>Political Theory</b>		
PSC 312	Modern Ideologies (3 credits)	
PSC 370	Ancient Political Theory (3 credits)	
PSC 372	Modern Political Theory (3 credits)	
PSC 373	Contemporary Political Theory (3 credits)	
PSC 394	Topics: Political Theory (3 credits)	
PSC 496	Internship and Practicum in Political Science (3 credits)	
PSC 499	Readings and Practicum for Seniors (3 credits)	

**Public Policy & Analysis**

PSC 394	Topics: Public Policy and Analysis (3 credits)
PSC 403	Public Policy (3 credits)
PSC 405	Economic Policy (3 credits)
PAD 300	Introduction to Public Administration (3 credits)
PAD 401	Human Resource Management (3 credits)
PAD 403	Public Policy (3 credits)
PAD 411	Public Budgeting and Finance (3 credits)
PAD 412	Administrative Law (3 credits)
PAD 420	Managing the Not-For-Profit Organization (3 credits)
PAD 455	Urban Administration (3 credits)
PAD 460	Planning and Community Development (3 credits)
PAD 496	Internship in Public Administration (1-15 credits)
PSC 499	Readings and Practicum for Seniors (1-3 credits)

**Law**

PSC 304	Introduction to the Law (3 credits)
PSC 305	The Judicial Process (3 credits)
PSC 307	Constitutional Law (3 credits)
PSC 308	Civil Liberties (3 credits)
PSC 394	Topics: Law (3 credits)
PSC 480	International Law** (3 credits)
PSC 496	Internship and Practicum in Political Science (1-5 credits)
PSC 499	Readings and Practicum for Seniors (1-3 credits)

24

**TOTAL CREDITS**

**42**

\*Can be used in either American or international category

\*\*Can be used in either international or law category

Additional program information:

- A student may substitute one or two reading courses "PSC 499: Readings and Practicum for Seniors" for courses required for the tracks above. Reading courses are designed primarily for students who have an interest or academic curiosity not satisfied by the existing curriculum but potentially covered by the expertise of the faculty in the department. Such courses are normally limited to a maximum of 6 semester hours for each student and require the consent of the instructor, the program coordinator, and the department chair. A readings course may not count as the only course in an area.
- An internship may not count as the only course in an area. Students majoring in political science or any major at NKU may apply for a legislative internship "PSC 496: Internship and Practicum in Political Science" in Frankfort, Ky., or the Washington Center in Washington, D.C. for one semester. Those accepted may take up to 15 semester hours.
- The degree of Bachelor of Arts is conferred upon those students completing all requirements for the major or minor in political science and other NKU requirements for the degree, which includes a minimum GPA of 2.50 in all major coursework and earning at least a C- in each course counted.
- Anyone pursuing teacher certification must schedule an appointment with the certification specialist in the College of Education and Human Services at the beginning of the sophomore year.

**Bachelor of Arts with a major in Criminal Justice**

The major consists of a 27-credit-hour core and 27 semester 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 available in a fully online format; interested students should contact Educational Outreach for more information.

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.

### Degree Requirements: B.A. – Criminal Justice

Courses		Credits
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
JUS 317	Perspectives on Crime	3
JUS 400	Juvenile Justice	3
STA 205	Introduction to Statistical Methods	3
Secondary requirements – select 27 credits of JUS credits from the following; 18 credits must be at the 300 level or above.		
JUS 204	Criminal Investigation	27
JUS 205	Criminal Evidence	
JUS 210	Legal Research	
JUS 231	Race, Gender, and the Law	
JUS 302	Criminal Law	
JUS 303	Criminal Procedure	
JUS 310	Police Management	
JUS 311	Police in the Community	
JUS 312	Institutional Corrections	
JUS 313	Rights of the Convicted	
JUS 319	Criminal Justice in Film	
JUS 320	Advanced Crime Scene Technology & Criminalistics	
JUS 333	Careers in Criminal Justice	
JUS 339	Applied Corrections	
JUS 351	Financial Investigations	
JUS 401	Correctional Rehabilitation	
JUS 402	Alternatives to Incarceration	
JUS 403	Crime and Public Policy	
JUS 404	Evidence Preparation and Courtroom Testimony	
JUS 405	Crime Prevention	
JUS 408	Victims and Crime	
JUS 409	Alternative Dispute Resolution	
JUS 428	Crime Across the Life Course	
JUS 429	Women in Criminal Justice	
JUS 494	Seminar: Justice Studies	
JUS 496	Internship: Justice Studies	
JUS 499	Readings: Justice Studies	
<b>TOTAL CREDITS</b>		<b>54</b>

### Bachelor of Arts in Organizational Leadership

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 leadership is not necessarily position-bound, but based on building relationships and effectively addressing challenges in all types of human groups, communities, and settings. Emphasis is placed on leadership in team and group settings and developing personal and professional leadership capacities. The program offers the chance for students to evolve from understanding leadership as 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 theory, think critically, navigate and creatively solve complex problems, examine and handle ethical issues, facilitate intentional change, communicate effectively,

utilize contemporary technology, and appreciate diverse and global perspective. Partnering organizational leadership requirements with a secondary area of study (minor or area of concentration) 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 (PACE) program, 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. Traditional face-to-face and online program curriculum schedule and the PACE curriculum schedule are available on NKU's website.

Students majoring in organizational leadership may not minor in an AACSB-accredited program. For questions about organizational leadership, email the program coordinator (orgleadearship@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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

### Degree Requirements: B.A. – Organizational Leadership

Required Courses in Leadership	Credits	
LDR 300	Foundations of Leadership	3
LDR 308	Leadership Development	3
LDR 310	Research Methods in Leadership <i>Prerequisite: STA 205 Introduction to Statistical Methods</i>	3
LDR 381	Organizational Ethics and Decision Making	3
LDR 382	Organizational Theory and Change	3
LDR 394	Special Topics in Leadership	3
LDR 395	Teamwork in Organizations	3
LDR 460	Leading in Diverse and Global Contexts	3
LDR 480	Organizational Leadership Capstone	3
<b>Credits in Political Science and Criminal Justice</b>		<b>27</b>
<b>Courses In Other Disciplines</b>		
PSY 340	Social Psychology* <i>Prerequisite: PSY 100 Introduction to Psychology</i>	3
PSY 344	Industrial/Organizational Psychology* <i>Prerequisite: PSY 100 Introduction to Psychology</i>	3
<b>Credits in Other Disciplines</b>		<b>6</b>
<b>Additional Prerequisite Credits</b>		<b>3</b>
<b>TOTAL CR</b>		<b>36</b>

Students will less than 60 hours credit must complete these secondary classes (four classes):

Course	Credits	
LDR 117	Introduction to Supervision	3
LDR 160	Leadership Around the World	3
LDR 205	Human Relations in Organizations	3
LDR 394	Special Topics in Leadership <i>This is in addition to the LDR 394 required for the major.</i>	3

The following leadership courses are available as electives: LDR 301 Leadership Practicum (variable credit 1-6 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 secondary classes may also take LDR 117 Introduction to Supervision, LDR 160 Leadership around the World and LDR 205 Human Relations in Organizations as elective courses.

## Political Science and Criminal Justice Minors

### Minor in Criminalistics

The minor is recommended for students majoring either in biology or chemistry with a forensic track. The program provides students with an understanding of the significant role science is accorded in the criminal justice system, especially in criminal investigations and criminal trials.

Requirements for Minor: Criminalistics		Credits
JUS 101	Introduction in Criminal Justice	3
JUS 204	Criminal Investigation	3
JUS 205	Criminal Evidence	3
JUS 231	Race, Gender, and the Law	3
JUS 303	Criminal Procedure	3
JUS 320	Advanced Crime Science Technology and Criminalistics	3
JUS 404	Evidence Preparation and Courtroom Testimony	3
<b>TOTAL CREDITS</b>		<b>21</b>

### Minor in Criminal Justice

Requirements for Minor: Criminal Justice		Credits
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
9 credits of JUS courses at the 300 level or above		9
<b>TOTAL CREDITS</b>		<b>21</b>

### Minor in Organizational Leadership

Requirements for Minor: Organizational Leadership		Credits
LDR 300	Foundations of Leadership	3
LDR 308	Leadership Development	3
Any four LDR courses		12
<b>TOTAL CREDITS</b>		<b>18</b>

### Minor in Political Science

Requirements for Minor: Political Science		Credits
PSC 100	American Politics	3
PSC 102	Comparative Politics	3
PSC 103	International Politics	3
12 credits of PSC courses at the 300 level or above		12
<b>TOTAL CREDITS</b>		<b>21</b>

### Minor in Public Service

Requirements for Minor: Public Service		Credits
PAD 300	Introduction to Public Administration	3
PAD 403	Public Policy	3
Select three courses from the following:		
PAD 401	Human Resource Management	3
PAD 405	Economic Policy	3
PAD 411	Budgeting Technology and Applications	3
PAD 412	Administrative Law	3
PAD 420	Managing Not-for-profit Organizations	3
PAD 460	Planning and Community Development	3
PAD 394	Topics in Public Administration	3
PAD 496	Internship in Public Administration	3
PAD 498	Public Service Practicum	3
<b>TOTAL CREDITS</b>		<b>15</b>

## Political Science and Criminal Justice Associate Degree

### Associate Degree in Criminal Justice

The associate degree in criminal justice consists of 66-68 semester hours. This degree promotes student understanding of the three major aspects of the criminal justice system: police, courts, and corrections. The program seeks to prepare students for pursuing a bachelor's degree and careers in criminal justice and allied fields. Rather than training individuals for a particular occupation through instruction in specific vocational skills, the program offers a broad, liberal education focused on the acquisition of substantive knowledge, the cultivation of analytical and creative thought, and the ability to read, write, and speak effectively.

Students in the associate degree program in criminal justice must earn at least a C- in each JUS course to be counted as part of the program. Students can complete an associate degree in criminal justice in a fully online format. For more information, contact Educational Outreach.

### Degree Requirements: Associate Degree in Criminal Justice

Courses in Political Science and Criminal Justice		Credits
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 231	Race, Gender, and the Law	3
PSC 100	American Politics	
<b>OR</b>		
PSC 101	State and Local Politics	3
Four courses from criminal justice electives		12
<b>Credits in Political Science and Criminal Justice</b>		<b>30</b>
Courses in other disciplines		
ENG 101	College Writing	3
ENG 291	Advanced College Writing	3
PSY 100	Introduction to Psychology	3
SOC 100	Introduction to Sociology	3
CMST 101	Public Speaking	3
General education course: Mathematics and Statistics		3
General education course: Natural Sciences		3
General education course: Culture and Creativity		3
<b>Credits in other disciplines</b>		<b>24</b>
Free electives: 10 to 12 credit hours		10-12
<b>TOTAL CREDITS</b>		<b>64-66</b>

## Political Science and Criminal Justice Undergraduate Certificates

### Certificate in Civic Engagement

The certificate in civic engagement offers students an opportunity to connect their academic learning with service learning in the community. This undergraduate certificate includes two required courses (4 credits total) and four self-selected service-learning courses (12 credits total).

<b>Requirements for Certificate: Civic Engagement</b>		<b>Credits</b>
CIV 101	Introduction to Civic Engagement Scholars	1
CIV 499	Civic Engagement Scholars Capstone	3
Any four 3-credit service-learning courses		12
<b>TOTAL CREDITS</b>		<b>16</b>

### Certificate in Organizational Leadership

<b>Requirements for Certificate: Organizational Leadership</b>		<b>Credits</b>
LDR 117	Introduction to Supervision	3
LDR 205	Human Relations in Organizations	3
LDR 308	Leadership Development	3
Select any two of the following:		
LDR 300	Foundations of Leadership	3
LDR 381	Organizational Ethics and Decision Making	3
LDR 382	Organizational Theory and Change	3
LDR 395	Teamwork in Organizations	3
LDR 460	Leading in Diverse and Global Contexts	3
<b>TOTAL CREDITS</b>		<b>15</b>

## DEPARTMENT OF PSYCHOLOGICAL SCIENCE

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**Department Chair:** Jeffrey Smith

**Other Key Personnel:**

Assistant Chair: Angie Lipsitz

Retention Specialist: Rachael Clark

Department Coordinator: Debbie Kelly

Secretary: Lynne Fuhrmann

**Full-Time Faculty:** Bill Attenweiler, Mark Bardgett, Robin Bartlett, Paul Bishop, Juliann Bosko-Young, Kim Breitenbecher, Gloria Carpenter, Rachael Clark, Kevin Corcoran, Kathleen Fuegen, Perilou Godard, David Hogan, Doug Krull, Angie Lipsitz, George Manning, Cecile Marczynski, Phil Moberg, Jeff Smith, Jim Thomas

**Undergraduate Programs:**

**Majors:**

Psychology (Bachelor of Arts)

Psychology (Bachelor of Science)

**Minors:**

Psychology

Neuroscience (see interdisciplinary section of catalog)

Evolutionary Studies (see interdisciplinary section of catalog)

**Thinking about the discipline:** A degree in psychology opens the door to one of the most challenging and rewarding professional fields today. The psychology major is designed to provide students with flexibility in the selection of courses to meet their individual interests and career goals. Psychology 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 psychology student. The department also facilitates student participation in internships and co-ops.

**Honors in Psychology**

The Honors in Psychology (HIP) program is designed to provide an enhanced learning experience for outstanding psychology 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 psychology; (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 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 psychology 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) or HNR 401/402 (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 in 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 options 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 psychology at NKU.

### Psychological Science Majors

#### Bachelor of Arts and Bachelor of Science with a major in Psychology

The psychology 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 psychology faculty advisor during the first semester following the declaration of psychology as their major to receive assistance in designing a program of coursework based on their individual needs. All students are encouraged to 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 psychology majors must complete the requirements listed below for the major plus the additional credits required for either the Bachelor of Arts or the Bachelor of Science degree.

**Degree Requirements: B.A. and B.S. – Psychology**

<b>Core Courses in Psychology</b>		<b>Credits</b>
PSY 100	Introduction to Psychology	3
STA 205	Introduction to Statistical Methods	3
PSY 210	Research Methods in Psychology	3
PSY 210L	Research Tools in Psychology	2
PSY 210R	Career Planning for Psychology Majors	1
PSY 305	Psychological Testing & Measurement	3
PSY 311	Biopsychology	3
PSY 321	Lifespan Development	3
PSY 337	Animal Learning	3
PSY 338	Cognitive Processes	3
PSY 340	Social Psychology	3
PSY 333	Abnormal Psychology	3

Five elective courses in psychology (which must total at least 13 semester hours) with at least three of these courses at the 300 or 400 level. Optional 2-hour lab classes also may be included in this category.	13
<b>Total Core Credits</b>	<b>33</b>
<b>Additional B.A. Credits</b>	<b>3-6</b>
<b>Additional B.S. Credits</b>	<b>3-7</b>
<b>TOTAL CREDITS FOR B.A.</b>	<b>49-5</b>
<b>TOTAL CREDITS FOR B.S.</b>	<b>49-53</b>

**Bachelor of Arts - Additional Requirements**

Students who wish to complete the requirements for the Bachelor of Arts in Psychology must complete either option A or B listed below:

<b>OPTION A</b>	<b>Credits</b>
A minimum of six semester 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 also meet the general studies humanities requirement.	6

<b>OPTION B</b>	<b>Credits</b>
Successful completion of 3 semester 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 an elective for the major.	3

**Bachelor of Science - Additional Requirements**

Students who wish to complete the requirements for the Bachelor of Science in Psychology must complete either option A or B listed below:

<b>Option A</b>	<b>Credits</b>
One college-level mathematics or statistics course in addition to STA 205 Introduction to Statistical Methods	3
<b>NOTE:</b> STA 212 and STA 213 cannot satisfy this requirement.	
Select two PSY laboratory courses such as the following: PSY 309L Psychology of Perception Laboratory PSY 311L Biopsychology Laboratory PSY 338L Cognitive Processes Laboratory PSY 340L Social Psychology Laboratory	
<b>NOTE:</b> Lab classes may be taken at the same time as the core class or at a later time, but students must complete "PSY 210: Research Methods in Psychology" to take a lab. The lab classes listed here may also count as elective classes toward the major requirements.	4

<b>Option B</b>	<b>Credits</b>
STA 312 Elementary Survey Sampling	3
STA 314 Design and Analysis of Experiments	3
Select one PSY laboratory course such as the following: PSY 309L Psychology of Perception Laboratory PSY 311L Biopsychology Laboratory PSY 338L Cognitive Processes Laboratory PSY 340L Social Psychology Laboratory	
<b>NOTE:</b> Lab classes may be taken at the same time as the core class or at a later time, but students must complete "PSY 210: Research Methods in Psychology" to take a lab. The lab classes listed here may also count as elective classes toward the major requirements.	2

**Psychological Science Minor****Minor in Psychology**

The minor requires 24 credits in psychology including "Psychology 100: Introduction to Psychology" and any 21 additional credit hours in psychology.

# 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:** David Dunevant (interim)

**Other Key Personnel:**

Department Coordinator: Mindy Berry

Department Secretary: Jessica Whyte

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:** Barbara Arrighi, Joan Ferrante, Nicole Grant, Boni Li, J. Robert Lilly, Jaime McCauley, Kristie Vise

**Undergraduate Programs:**

**Major:**

Sociology (Bachelor of Science)

**Minor:**

Sociology

Aging and Society

**Thinking about the discipline:** The primary mission of the sociology program is to provide undergraduate students with an understanding of concepts and methods of the scientific study of society and social relations. Sociology is a perspective, a way of viewing society, and a set of techniques for seeking answers to questions about social behavior; courses are designed to acquaint students with both aspects of the discipline. The program 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 peoples. Sociology can be a student's major, minor, or area of concentration.

The program offers a major in sociology leading to the degree of 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.

**Special opportunities for our students:** Among the many experiences in which sociology majors and minors can participate are opportunities to go to Native American reservations, to engage in class projects that address social issues, and to 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.

In addition to the major and minor in sociology, there is also a concentration in sociology that consists of four 300-, 400-, or 500-level sociology courses. It is possible for students attending *only evening classes* to complete a concentration in sociology. It is also possible for students attending only online classes to complete a concentration in sociology.

## Sociology Majors

### Bachelor of Science with a major in Sociology

The major in sociology requires the successful completion of 39 semester hours in the discipline, 18 of which must be at the 300 or 400 level. The curriculum consists of five categories of courses. Students majoring in sociology are required to complete a 12-credit core plus one 27-credit track: general sociology; criminology; or society, environment, and technology. Each track includes 15 credits of sociology electives.

**You should also know:** A grade of at least a 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 will 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 has:

1. Understood the classical theoretical perspectives in sociology.
2. Analyzed an issue with a sociological framework (theory, concept, or perspective).
3. Articulated a meaningful research question, specified a design, and collected relevant data to answer that question.
4. Explored an issue related to socio-cultural diversity. Understood conceptually the statistical analysis of sociological data.

### Degree Requirements: B.S. – Sociology

Core Courses	Credits	
SOC 100	Introduction to Sociology	3
SOC 320	Social Research	4
SOC 330	Sociological Theory	3
SOC 494	Seminar: Sociology Senior Seminar	2
<b>TOTAL CORE CREDITS</b>		<b>12</b>

General Sociology Track	Credits	
Social Institutions – select one course from the following:		
SOC 308	Social Organization	3
SOC 315	Marriage and the Family	
SOC 355	Sociology of the Environment	
SOC 430	Sociology of Religion	
SOC 450	Medical Sociology	
SOC 488	Sociology of Law	
SOC 520	Sociology of Education	
Power and Inequality – select one course from the following:		
SOC 300	Race and Ethnic Relations	3
SOC 301	World Patterns of Race and Ethnicity	
SOC 307	Social Stratification	
SOC 335	Popular Culture	
SOC 364	Women and Men in Society	
SOC 425	Political Sociology	

People, Places, and the Life Cycle – select one course from the following:		
SOC 202	Juvenile Delinquency	
SOC 245	Latin American Societies	
SOC 303	Social Psychology	
SOC 318	Sociology of Work and Occupations	3
SOC 342	Sociology of Aging	
SOC 340	Population	
SOC 400	Urban Society	
Social Issues and Social Change – select one course from the following:		
SOC 205	Current Social Issues	
SOC 305	Criminology	
SOC 332	Collective Behavior	
SOC 350	Women and Crime	3
SOC 357	Guns and Society	
SOC 360	Technology and Social Change	
SOC 380	Elite Deviance	
SOC 381	Deviance and Social Control	
SOC electives (five courses)		15
<b>TOTAL TRACK CREDITS</b>		<b>27</b>
<b>Total Core Credits</b>		<b>12</b>
<b>TOTAL CREDITS</b>		<b>39</b>

<b>Criminology Track</b>	<b>Credits</b>	
Social Institutions		
SOC 203	Sociology of Corrections	3
Power and Inequality – select one course from the following:		
SOC 300	Race and Ethnic Relations	
SOC 301	World Patterns of Race and Ethnicity	
SOC 307	Social Stratification	3
SOC 335	Popular Culture	
SOC 364	Women and Men in Society	
SOC 425	Political Sociology	
People, Places, and the Life Cycle		
SOC 202	Juvenile Delinquency	3
Social Issues and Social Change – select one course from the following:		
SOC 305	Criminology	
SOC 350	Women and Crime	
SOC 357	Guns and Society	3
SOC 380	Elite Deviance	
SOC 381	Deviance and Social Control	
SOC electives (five courses; try to take criminology courses when possible)		15
<b>TOTAL TRACK CREDITS</b>		<b>27</b>
<b>Total Core Credits</b>		<b>12</b>
<b>TOTAL CREDITS</b>		<b>39</b>

<b>Society, Environment and Technology Track</b>	<b>Credits</b>	
Social Institutions		
SOC 355	Sociology of the Environment	3
Power and Inequality – select one course from the following:		
SOC 300	Race and Ethnic Relations	
SOC 301	World Patterns of Race and Ethnicity	
SOC 307	Social Stratification	3
SOC 335	Popular Culture	
SOC 364	Women and Men in Society	
SOC 425	Political Sociology	
People, Places and Life Cycle		
SOC 340	Population	3
Social Issues and Social Change		
SOC 360	Technology and Social Change	3

ANT 345	Environmental Anthropology	3
SOC electives preferably at the 300 level and above (four courses)		12
<b>TOTAL TRACK CREDITS</b>		<b>27</b>
<b>Total Core Credits</b>		<b>12</b>
<b>TOTAL CREDITS</b>		<b>39</b>

### Sociology Minors

#### Minor in Sociology

An overall GPA of at least 2.00 and a grade of at least C in each course are required for courses comprising the minor.

<b>Requirements for Minor: Sociology</b>	<b>Credits</b>	
SOC 100	Introduction to Sociology	3
SOC 320	Social Research	4
SOC 330	Sociological Theory	3
SOC electives (four courses)		12
<b>TOTAL CREDITS</b>		<b>22</b>

#### Minor in Aging and Society

The minor in aging and society is offered by the sociology program. This minor is designed for students who are interested in learning about the elderly population or for those who seek career opportunities serving this demographic. This minor will help students comprehend theories in adult development, social gerontology, life course, intergenerational relationships, and the needs of an aging population. Other topics include the medical and related health issues and emphasize how sociological perspectives help frame problems specific to elderly population and their families and to the societies adjusting to aging dynamics. Social policies will also be analyzed and compared to other countries.

<b>Requirements for Minor: Aging and Society</b>	<b>Credits</b>	
Select three courses from the following:		
ANT 321	Medical Anthropology	
ANT 375	Anthropology of Aging	
SOC 342	Sociology of Aging	
SOC 340	Population	9
SOC 450	Medical Sociology	
SOC 499	Readings: Sociology	
Select one course from the following:		
SOC 308	Social Organization	
SOC 315	Marriage and the Family	
SOC 320	Social Research	
SOC 335	Popular Culture	3
SOC 360	Technology and Social Change	
PHI 200	Ethics	
PHI 220	Health Care Ethics	
Select one course from the following:		
NRS 413	Aging in Today's Society	
PSY 320	Psychology of Adult Development	
PSY 220	Life Span Development	
HSR 314	Death, Dying and Grief	3
HSR 321	Mental Health and Aging	
HSR 306	Introduction to Gerontology	
HSR 410	Psychosocial Forces in Late Life	
Aging electives (two courses)		6
<b>TOTAL CREDITS</b>		<b>21</b>

## Anthropology Programs

**Location:** Landrum Academic Center 217C

**Telephone:** 859-572-5259

**Fax:** 859-572-6086

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

**Web Address:** <http://anthropology.nku.edu/>

**Program Coordinator:** Sharlotte Neely

### Other Key Personnel:

Museum Director: Judy Voelker

Archaeology Director: Barbara Thiel

**Full-Time Faculty:** Douglas W. Hume, Frederick Klaits, Sharlotte Neely, Michael J. Simonton, Barbara Thiel, Judy Voelker

### Undergraduate Programs:

#### Major:

Anthropology (Bachelor of Science and Bachelor of Arts)

#### Minors:

Anthropology

Archaeology

**Interdisciplinary Minors:** (see interdisciplinary section of catalog)

Ancient Civilizations

Celtic Studies

Native American Studies

**Thinking about the discipline:** Anthropology is the study of human beings, both physically and culturally, in the past and present, mostly in the non-Western world, mostly through the method of fieldwork. It includes the subfields of cultural anthropology (study of the great variety of societies and cultures in the world today); archaeology (study of past societies and cultures); physical anthropology (study of the origin and biological nature of humans); anthropological linguistics (study of language and its relationship to culture); and applied anthropology (the use of anthropological knowledge to help solve practically oriented problems). Through these subfields, anthropology explains differences and similarities among all human groups, at all times, and in all places. In the words of the American Anthropological Association, "Only anthropology seeks to understand the whole panorama – in geographic space and evolutionary time – of human existence." To study anthropology is to explore the many avenues of what it means to be human.

NKU anthropology majors and minors are students prepared both for career opportunities upon graduation and for graduate work in anthropology. The median starting salary in the United States for anyone who majored in anthropology is between \$36,000 and \$37,000. The anthropology faculty provide students with 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 Thailand, Ireland, and Ghana.

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 Tíre 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 make at least a *C* in the core courses, except "ANT 480: Advanced Anthropological Concepts," in which a grade of *A* is required.

Each student must demonstrate competency in the use of computers. This may be done in one of two ways: by taking "INF 101: Computer Literacy & Informatics" (formerly "CSC 150: Computer Concepts and Applications") with a grade of *C* or better or by passing a test on computer use given by Dr. Douglas Hume of the anthropology faculty.

## Anthropology Majors

### Bachelor of Science with a major in Anthropology

For the anthropology major there are two options from which to choose, the Bachelor of Science and the Bachelor of Arts. Each course may count in only one of the categories below.

### Degree Requirements: B.S. – Anthropology

Courses		Credits
ANT 100	Cultural Anthropology	3
ANT 110	Introduction to Archaeology	3
ANT 202/202L	Introduction to Physical Anthropology with Laboratory	4
ANT 210	Introduction to Archaeological Method and Theory	3
ANT 275	Language and Culture	3
ANT 312	Social Organization	3
ANT 480	Advanced Anthropological Concepts	1
Select two courses from the following. At least one must be at the 300 level or above.		
ANT 114	Great Archaeological Sites	
ANT 215	Archaeological Excavation Methods	
ANT 231	Modern American Indians	
ANT 301	World Patterns of Race and Ethnicity	
ANT 307	Museum Methods	
ANT 310	African Arts	
ANT 311	Museums in Contemporary Society	
ANT 317	Ecological Anthropology	
ANT 318	Prehistoric Ecology	
ANT 320	Religion and Culture	
ANT 321	Medical Anthropology	
ANT 325	Applied Anthropology	
ANT 330	Women, Gender, and Culture	
ANT 331	Women in Prehistory	
ANT 335	Advanced Archaeological Excavation Methods	6
ANT 336	Historical Archaeology	
ANT 340	Ethnographic Methods and Research	
ANT 342	Quantitative Methods in Anthropology	
ANT 345	Environmental Anthropology	
ANT 350	North American Archaeology	
ANT 352	Archaeology of Mesoamerica	
ANT 355	Archaeological Laboratory Analysis	
ANT 358	Art and Culture	
ANT 363	Language and Thought	
ANT 371	Psychological Anthropology	
ANT 372	Peasant Societies	
ANT 374	Celtic and Viking Archaeology	
ANT 375	Anthropology of Aging	
ANT 376	Irish Society through Film	
ANT 380	Origins of Civilization	
ANT 382	Visual Anthropology	
ANT 386	Economy, Wealth and Culture	
ANT 392	Research: Anthropology	



ANT 394	Topics: Anthropology	
ANT 401	Culture Theory	
ANT 410	Archaeological Theory	
Ethnographic Area Courses – select 6 credits from the following:		
ANT 201	World Cultures	
ANT 230	North American Indians	
ANT 245	Peoples of Latin America and the Caribbean	
ANT 270	Native Australia and Oceania	6
ANT 309	Peoples of Africa	
ANT 360	Mesoamerican Indians	
ANT 370	Celtic Europe	
ANT 385	Peoples of East and Southeast Asia	
Methods Courses – select one course from the following:		
ANT 215	Archaeological Excavation Methods	
ANT 307	Museum Methods	
ANT 335	Advanced Archaeological Excavation Methods	3-4
ANT 340	Ethnographic Methods and Research	
ANT 342	Quantitative Methods in Anthropology	
ANT 355	Archaeological Laboratory Analysis	
ANT 401	Culture Theory	
	<b>OR</b>	3
ANT 410	Archaeological Theory	
Two electives in anthropology (at least one of which must be at the 300 or 400 level)		6
<b>TOTAL CREDITS</b>		<b>44-45</b>

### Bachelor of Arts with a major in Anthropology

The major in anthropology, leading to the degree of Bachelor of Arts, consists of all the above requirements and additionally requires the completion of the courses below.

### Degree Requirements: B.A. – Anthropology

Courses	Credits
STA 205 Introduction to Statistical Methods	3
Two courses in one modern foreign language or the equivalent (AP credit earned or as tested and certified by the Department of World Languages or demonstrable bilingualism in English and another foreign language)	6
Bachelor of Science in Anthropology Requirements	44-45
<b>TOTAL CREDITS</b>	<b>53-54</b>

### Anthropology Minors

#### Minor in Anthropology

Requirements for Minor: Anthropology	Credits
ANT 100 Cultural Anthropology	3
ANT 110 Introduction to Archaeology	3
ANT 202/202L Introduction to Physical Anthropology with Laboratory	4
ANT 210 Introduction to Archaeological Method and Theory	3
ANT 275 Language and Culture	3
Select one course from the following:	
ANT 114 Great Archaeological Sites	
ANT 231 Modern American Indians	
ANT 301 World Patterns of Race and Ethnicity	
ANT 307 Museum Methods	
ANT 308 Cultural Resource Management	
ANT 310 African Arts	
ANT 311 Museums in Contemporary Society	
ANT 312 Social Organization	

ANT 317	Ecological Anthropology	
ANT 318	Prehistoric Ecology	
ANT 320	Religion and Culture	
ANT 321	Medical Anthropology	
ANT 325	Applied Anthropology	
ANT 335	Advanced Archaeological Excavation Methods	
ANT 336	Historical Archaeology	
ANT 340	Ethnographic Methods and Research	
ANT 342	Quantitative Methods in Anthropology	
ANT 345	Environmental Anthropology	
ANT 350	North American Archaeology	
ANT 352	Archaeology of Mesoamerica	
ANT 355	Archaeological Laboratory Analysis	
ANT 358	Art and Culture	
ANT 363	Language and Thought	
ANT 371	Psychological Anthropology	
ANT 372	Peasant Societies	
ANT 374	Celtic and Viking Archaeology	
ANT 375	Anthropology of Aging	
ANT 376	Irish Society through Film	
ANT 380	Origins of Civilization	
ANT 382	Visual Anthropology	
ANT 386	Economy, Wealth and Culture	
ANT 392	Research-Archaeology	
ANT 394	Topics: Anthropology	
ANT 401	Culture Theory	
ANT 410	Archaeological Theory	

Select one course from the following:

ANT 114	Great Archaeological Sites	
ANT 201	World Cultures	
ANT 215	Archaeological Excavation Methods	
ANT 308	Cultural Resource Management	
ANT 309	Peoples of Africa	
ANT 318	Prehistoric Ecology	
ANT 331	Women in Prehistory	
ANT 335	Advanced Archaeological Excavation Methods	
ANT 336	Historical Archaeology	3-4
ANT 350	North American Archaeology	
ANT 352	Archaeology of Mesoamerica	
ANT 355	Archaeological Laboratory Analysis	
ANT 360	Mesoamerican Indians	
ANT 370	Celtic Europe	
ANT 374	Celtic and Viking Archaeology	
ANT 380	Origins of Civilization	
ANT 385	Peoples of East and Southeast Asia	
ANT 392	Research: Anthropology	
ANT 410	Archaeological Theory	
<b>TOTAL CREDITS</b>		<b>22-23</b>

#### 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. At NKU, 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.

Requirements for Minor: Archaeology		Credits
ANT 100	Cultural Anthropology	3
ANT 110	Introduction to Archaeology	3
ANT 210	Introduction to Archaeological Method and Theory	3
Select one course from the following:		
ANT 215	Archaeological Excavation Methods	3-4
ANT 307	Museum Methods	
ANT 355	Archaeological Laboratory Analysis	
Select three courses from the following:		
ANT 114	Great Archaeological Sites	9-11
ANT 215	Archaeological Excavation Methods (if not used as methods course)	
ANT 307	Museum Methods (if not used as methods course)	
ANT 308	Cultural Resource Management	
ANT 318	Prehistoric Ecology	
ANT 331	Women in Prehistory	
ANT 335	Advanced Archaeological Excavation Methods	
ANT 336	Historical Archaeology	
ANT 350	North American Archaeology	
ANT 352	Archaeology of Mesoamerica	
ANT 355	Archaeological Laboratory Analysis (if not used as methods course)	
ANT 374	Celtic and Viking Archaeology	
ANT 380	Origins of Civilization	
ANT 392	Research: Anthropology (up to 3 credit hours)	
ANT 410	Archaeological Theory	
<b>TOTAL CREDITS</b>		<b>21-24</b>

## 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/>

**Coordinator for Philosophy and Religious Studies:** Rudy Garns

**Full-Time Faculty:** Gary Blahnik, Rudy Garns, Yaw Frimpong-Mansoh, Nancy Hancock, Dennis Miller, Terry Pence, Robert Trundle

### Undergraduate Programs:

#### Major:

Philosophy (Bachelor of Arts)

#### Minors:

Philosophy

Applied Philosophy

**Interdisciplinary Minors:** (see interdisciplinary section of catalog)

Religious Studies

**Thinking about the discipline:** Philosophy, understood broadly as the pursuit of wisdom, explores the values and concepts central to our understanding of ourselves and the world around us. To advance that understanding, philosophy asks and attempts to answer in a reasoned and systematic way questions that are profoundly basic, comprehensive, and significant. Through careful and critical reflection philosophers:

- Seek to establish principles of proper human conduct (ethics).
- Attempt to establish standards of evidence and techniques for evaluating arguments and ideas (logic).
- Inquire into the fundamental nature of knowledge and reality (metaphysics and theory of knowledge).
- Examine generally the relationships that exist among persons, society, and the world at large (social and political philosophy).

A person who studies philosophy can expect to develop a variety of skills that are useful no matter what one does in life. Philosophy promotes the following abilities that will be useful in a first career as well as a last:

- To think and write clearly.
- To communicate clearly and precisely.
- To organize ideas and issues.
- To articulate and solve problems.
- To assess the pros and cons of issues.
- To analyze complex data.

Philosophy is a particularly good choice for students interested in graduate studies in the law or theology. Indeed, philosophy majors (because of the skills named above) do extraordinarily well on graduate admission exams of all sorts (for example, GRE, LSAT, and GMAT). According to a recent study of graduates at midcareer, philosophy majors were among the top 15 salary earners.

For some people, the best and most satisfying reason to study philosophy is that it provides an opportunity to examine one's own beliefs and ponder how you would answer the deepest and most fundamental questions about human existence. The study of philosophy helps students deepen their understanding of themselves and their society and widens their perspective on the beliefs and values of others.

**Special opportunities for our students:** 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. Student clubs relevant to philosophy are active including a Philosopher's Café where issues of contemporary interest are 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

Students electing to major in philosophy are expected to complete an online assessment and satisfaction survey prior to graduation.

#### Degree Requirements: B.A. – Philosophy

Courses	Credits
PHI 265      Logic	15
PHI 280      Ancient and Medieval Philosophy	
PHI 285      Modern and Contemporary Philosophy	
PHI 315      Knowledge and Reality	
PHI 375      Ethical Theory	
Diverse Philosophical Perspectives – select at least one course from the following:	
PHI 304      Zen	3
PHI 312      Eastern Philosophy	
PHI 309      Global Ethics	
PHI 311      Philosophy of Women	
PHI 324      Africana Philosophy	
The major in philosophy requires a total of at least 30 hours, 5 required core classes (15 hours) and a course from the perspectives category. At least 18 hours of 300-level or above. No more than 3 hours at the 100-level will count toward the required hours. Students must make a C- or better in all courses. At least 20% of the total required hours must be taken at NKU.	
Electives in PHI courses	12
<b>TOTAL CREDITS</b>	<b>30</b>

## Philosophy Minors

### Minors in Philosophy and Applied Philosophy

The minor in philosophy requires 21 credits of PHI classes including no more than 12 semester hours at the 100 level. The minor in applied philosophy requires 21 credits of PHI classes including "PHI 396: Internship: Applied Philosophy."

## DEPARTMENT OF THEATRE AND DANCE

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**Location:** Fine Arts Center 205

**Telephone:** 859-572-6362

**Fax:** 859-572-6057

**Email Addresses:**

Dance – [dance@nku.edu](mailto:dance@nku.edu)

Theatre – [theatre@nku.edu](mailto:theatre@nku.edu)

Theatre and Dance Box Office – [boxoffice@nku.edu](mailto:boxoffice@nku.edu)

**Web Address:** <http://theatre.nku.edu>

**Department Chair:** Kenneth Jones

**Other Key Personnel:**

Assistant Chair: Jamey Strawn

Box Office Manager: Warren Bryson

Ticket Manager: Sue Bolger

Scene Shop: Chris Murphy

Costume Shop Manager: Jeff Shearer

Administrative Assistant: Sandy Davis

**Full-Time Faculty:** Mary Jo Beresford, Heather Britt, Sandra Forman, Jane E. Green, Mark Hardy, Daryl L Harris, Michael Hatton, Christine Jones, Kenneth Jones, Robert Kerby, Michael E. King, Terry D. Powell, Brian Robertson, Ronald A. Shaw, Jamey Strawn, Gretchen H. Vaughn, Charles Wells

**Undergraduate Programs:**

**Majors:**

Bachelor of Arts in Theatre

Bachelor of Arts in World Cultures and Theatre

Bachelor of Fine Arts in Theatre

Acting

Dance

Musical Theatre

Playwriting

Bachelor of Fine Arts in Design or Technology

Rock and Roll/Concert Technology

Bachelor of Fine Arts in Stage Management

**Minors:**

Theatre

Dance

**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 other careers.

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).

NKU offers scholarships to students based on auditions as well as GPA:

- **Incoming student scholarship** – The theatre department endeavors first 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 candidate(s) 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 ([http://theatre.nku.edu/academics/future/Scholarship\\_Informat.php](http://theatre.nku.edu/academics/future/Scholarship_Informat.php))

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 Improv Troupe, the Musical Theatre Tour Troupe, and the Broadway Chorus Tour Troupe may be taken for up to six credit hours. Tour troupes hold auditions as a condition of acceptance into a troupe. Tour troupe 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 (B.F.A.) candidates must maintain a 3.00 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 retake 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.

<b>Course Offerings</b>		
TAR 102	Race, Gender, and the Theatre	3
TAR 104	Introduction to NKU Theatre and Dance	0
TAR 111	Creative Expression	3
TAR 165	Comparative Arts	3
<b>Group I (Performance)</b>		
TAR 110	Acting I	3
TAR 114	Voice Development for the Actor I	3
TAR 118	Stage Makeup	3
TAR 130	Musical Skills for Musical Theatre Actors I	3
TAR 210	Acting II	3
TAR 211	Special Topics in Theatre	1-3
TAR 213	Stage Combat	3
TAR 225	Musical Theatre Performance I	3
TAR 230	Musical Skills for Musical Theatre Actors II	3
TAR 235	Vocal Techniques for the Singing Actor I	1
TAR 335	Vocal Techniques for the Singing Actor II	1
TAR 310	Acting III	3
TAR 311	Auditions	3
TAR 316	Acting Seminar I	3
TAR 325	Musical Theatre Performance II	3
TAR 410	Styles of Acting	3
TAR 411	Special Problems: Theatre Acting	3-9
TAR 412	Internship: Professional Theatre	3-6
TAR 414	NKU Tour Group	2
TAR 416	Acting Seminar II	3
TAR 417	Acting Shakespeare	3
TAR 418	Process and Production	4-8
TAR 610	Coaching of Acting for Teachers	3
DAN 120	Ballet I	3
DAN 220	Ballet II	3
DAN 221	Modern Dance I	3
DAN 222	Jazz Dance I	3
DAN 224	Tap I	3
DAN 226	Foundation Seminar	2
DAN 227	Special Topics in Dance	2-6
DAN 321	Modern Dance II	3
DAN 322	Jazz Dance II	3
DAN 323	Physiology of Dance	3
DAN 324	Tap Dance II	3
DAN 326	Advanced Dance Seminar I	2-6
DAN 375	Choreography	3
DAN 426	Advanced Dance Seminar II	2-6
DAN 428	Special Problems in Dance	3-9
<b>Group II (History, Theory, and Criticism)</b>		
TAR 340	Playscript Analysis	3
TAR 343	Costume History	3
TAR 346	History of the Theatre and Dramatic Literature I	3
TAR 347	History of the Theatre and Dramatic Literature II	3
TAR 348	Theatre History and Society	3
DAN 427	Dance History	3
TAR 441	Special Problems: Theory and Criticism	1-9
TAR 442	Dramatic Theory and Criticism	3
TAR 443	History of Costume and Decor II	3
TAR 446	History of the Theatre and Dramatic Literature III	3

<b>Group III (Theatre Literature)</b>		
TAR 355	Musical Theatre Literature I	3
TAR 452	Special Problems: Theatre Literature	3-9
TAR 455	Musical Theatre Literature II	3
<b>Group IV (Theatre Design and Technology)</b>		
TAR 211	Special Topics in Theatre	1-3
TAR 160	Stagecraft	2
TAR 160L	Stagecraft Laboratory	1-3
TAR 260	Lighting Fundamentals	3
TAR 262	Costume Construction	2
TAR 262L	Costume Construction Laboratory	1
TAR 265	Fundamentals of Theatrical Design	3
TAR 277	Fundamentals of Sound Technology	3
TAR 343	Costume History	3
TAR 360	Scene Design I	3
TAR 361	Design and Construction of Stage Properties	3
TAR 362	Drafting for Theatre	3
TAR 363	Lighting Design	3
TAR 364	Computer Graphics for the Stage	3
TAR 365	Costume Crafts	3
TAR 366	Costume Design I	3
TAR 367	Stagecraft II	3
TAR 368	Theatrical Rendering and Model Building	3
TAR 377	Sound Design	3
TAR 461	Scene Painting	3
TAR 464	Special Problems Technology	3-9
TAR 466	Costume Construction II	3
TAR 662	Technical Theatre for Teachers	3
<b>Group V (Directing, Management, and Creative Dramatics)</b>		
TAR 370	Directing	3
TAR 371	Theatre Management	3
TAR 376	Stage Management	3
TAR 470	Directing II	3
TAR 471	Summer Dinner Theatre	3-6
TAR 474	Special Problems in Directing and Management	3-9
TAR 477	The Business of Theatre	1
TAR 670	Directing for Teachers	3
TAR 673	Creative Dramatics for Teachers	3
DAN 375	Choreography	3
<b>Group VI (Playwriting and Reviewing)</b>		
TAR 380	Playwriting	3
TAR 481	Special Problems in Playwriting and Criticism	3-9
TAR 482	Screenwriting	3
<b>Group VII (Production Hours and Independent Study)</b>		
TAR 390-391, 490-491	Production Credits (1 semester hour each)	1
TAR 495	Senior Project	1
TAR 498-499	Individual Studies in Theatre	1-6
TAR 699	Individual Studies in Theatre	3-6

## 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

Courses	Credits
TAR 104 Introduction to NKU Theatre and Dance	0
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 347 History of the Theatre and Dramatic Literature II	3
TAR 348 Theatre History and Society	3
TAR 446 History of the Theatre and Dramatic Literature III	3
Theatre and dance electives in groups, I, IV, V, VI	15
<b>TOTAL CREDITS</b>	<b>36</b>

A minor or an area of concentration is required

### Bachelor of Arts with a major in World Cultures and Theatre

#### Degree Requirements: B.A. – World Cultures and Theatre

Courses	Credits
TAR 104 Introduction to NKU Theatre and Dance	0
TAR 245 Introduction to Theatre in World Cultures	3
TAR 400 Theatre in World Cultures Styles Studio	3
TAR 390-391, 490-491 Production Credits (three 1-hour courses)	
One production credit must be in a departmentally approved organization/venue (for example, museum )	3
Foreign language (may fulfill Culture and Creativity general education requirement)	6
Study abroad (two opportunities outside student's native culture)	6
World Cultures capstone	3
Theatre and dance electives or required theatre in world cultures electives	15
<b>TOTAL CREDITS</b>	<b>39</b>

A minor or an area of concentration is required

### Bachelor of Fine Arts in Theatre

The B.F.A. is a more intensive 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. degree requires completion of a common core of courses. Students must also either complete an area of emphasis – the options are acting, dance, musical theatre, or playwriting – or they must follow the curriculum for one of the following three programs: design or technology; design or technology with an emphasis on rock/music concert; or stage management.

A minor or area of concentration is not required in the B.F.A.

#### Degree Requirements: B.F.A. – Theatre

Core Courses in Theatre and Dance		Credits
TAR 104	Introduction to Theatre and Dance	0
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	History of the Theatre and Dramatic Literature I	3
TAR 347	History of the Theatre and Dramatic Literature II	3
TAR 446	History of the Theater and Dramatic Literature III	3
<b>TOTAL CORE CREDITS</b>		<b>21</b>

Acting Emphasis		Credits
TAR 390-391, 490-491	Production Credits	3
TAR 114	Voice Development for the Actor I	3
DAN 120	Ballet I ( or another approved Dance Course)	3
TAR 210	Acting II	3
TAR 225	Musical Theatre Performance I	3
TAR 310	Acting III	3
TAR 311	Auditions	3
TAR 312	Voice Development for the Actor II	3
TAR 314	Stage Dialects	3
TAR 370	Directing	3
TAR 410	Styles of Acting	3
	<b>OR</b>	
TAR 417	Acting Shakespeare	3
Select one course from the following:		
TAR 316	Acting Seminar I	3
TAR 411	Special Problems: Theatre Acting	3
TAR 415	The One Person Show	3
TAR 416	Acting Seminar II	3
TAR 477	The Business of Theatre	1
TAR 495	Senior Project	1
Theatre and dance electives in groups I, IV, V, VI, VII		6
<b>TOTAL EMPHASIS CREDITS</b>		<b>44</b>
Total Core Credits		21
<b>TOTAL CREDITS</b>		<b>65</b>

Dance Emphasis		Credits
TAR 390-391, 490-491	Production Credits	3
DAN 120	Ballet I	3
DAN 220	Ballet II	3
TAR 225	Musical Theatre Performance I	3
DAN 226	Foundation Seminar	2
Select one course from the following:		
DAN 221	Modern Dance I	3
DAN 222	Jazz Dance I	3
DAN 224	Tap I	3
Select one course from the following:		
DAN 321	Modern Dance II	3
DAN 322	Jazz Dance II	3
DAN 324	Tap Dance II	3
DAN 326	Advanced Dance Seminar I	2
DAN 375	Choreography	3
DAN 426	Advanced Dance Seminar II	2

DAN 428	Special Problems in Dance	3
DAN 323	Physiology of Dance	3
DAN 427	Dance History	3
TAR 477	The Business of Theatre	1
TAR 495	Senior Project	1
Theatre and dance electives from groups I, IV, V, VI		9
<b>TOTAL EMPHASIS CREDITS</b>		<b>47</b>
<b>Total Core Credits</b>		<b>21</b>
<b>TOTAL CREDITS</b>		<b>68</b>

<b>Musical Theatre Emphasis</b>		<b>Credits</b>
TAR 390-391, 490-491	Production Credits	3
DAN 120	Ballet I (or other approved dance course)	3
TAR 114	Voice Development for the Actor I, may be substituted with TAR 312 Voice II or a voice course at the 300 level or above	3
TAR 130	Musical Skills for Musical Theatre Actors I	3
TAR 210	Acting II	3
TAR 225	Musical Theatre Performance I	3
TAR 230	Musical Skills for Musical Theatre Actors II	3
TAR 235	Vocal Techniques for the Singing Actor I (3 semesters for 1 credit per semester)	3
TAR 310	Acting III	3
TAR 311	Auditions	3
TAR 325	Musical Theatre Performance II	3
TAR 335	Vocal Techniques for the Singing Actor II (3 semesters for 1 credit per semester)	3
TAR 477	The Business of Theatre	1
TAR 495	Senior Project	1
Theatre and dance electives in groups I, IV, V, VI, VII		9
<b>TOTAL EMPHASIS CREDITS</b>		<b>47</b>
<b>Total Core Credits</b>		<b>21</b>
<b>TOTAL CREDITS</b>		<b>68</b>

<b>Playwriting Emphasis</b>		<b>Credits</b>
TAR 390-391, 490-491	Production Credits	3
ENG 308	Shakespeare I	3
ENG 309	Shakespeare II	3
300 level or above ENG literature or writing course, not to include ENG 308, ENG 309, or ENG 491		3
TAR 370	Directing	3
TAR 380	Playwriting	3
TAR 442	Dramatic Theory and Criticism	3
TAR 477	The Business of Theatre	1
TAR 481	Special Problems in Playwriting and Criticism	6
TAR 482/ENG 491	Screenwriting	3
TAR 495	Senior Project	1
TAR 498	Individual Studies in Theatre	3
Theatre and dance electives in groups I, II, III, IV, V, VI, VII		6
<b>TOTAL EMPHASIS CREDITS</b>		<b>41</b>
<b>Total Core Credits</b>		<b>21</b>
<b>TOTAL CREDITS</b>		<b>62</b>

**Degree Requirements - B.F.A. in Design or Technology**

<b>Courses</b>		<b>Credits</b>
TAR 390-391, 490-491	Production Credits	3
TAR 165	Comparative Arts (fulfills one Culture and Creativity requirement in general education)	3
TAR 364	Computer Graphics for the Stage	3
TAR 265	Fundamentals of Theatrical Design	3
Foundations Series – select one course from the following:		
TAR 343	Costume History	3
TAR 367	Stagecraft II	
TAR 362	Drafting for Theatre	
Fundamental Series – select three courses from the following:		
TAR 260	Lighting Fundamentals	9
TAR 262	Costume Construction	
TAR 277	Fundamentals of Sound Technology	
TAR 368	Theatrical Rendering and Model Building	
Design Series – select three courses from the following:		
TAR 363	Lighting Design	9
TAR 360	Scene Design I	
TAR 366	Costume Design I	
TAR 377	Sound Design	
TAR 477	The Business of Theatre	
TAR 495	Senior Project	1
Theatre and dance electives in area of interest		12
<b>TOTAL PROGRAM CREDITS</b>		<b>47</b>
<b>Total Core Credits</b>		<b>21</b>
<b>TOTAL CREDITS</b>		<b>68</b>

<b>B.F.A. in Design or Technology – Rock and Roll/Concert Emphasis</b>		<b>Credits</b>
EGT 110	Introduction to Engineering/ Technology (this degree requirement will fulfill a general education requirement: Scientific and Quantitative Inquiry category without lab)	3
TAR 390-391, 490-491	Production Credits	3
One production credit must be at a concert venue or with the Stagehands Union		
TAR 265	Fundamentals of Theatrical Design	3
TAR 412	Internship: Professional Theatre (must be in a concert/union venue)	3
TAR 464	Special Problems Technology (one must be in rigging)	6
TAR 477	The Business of Theatre	1
TAR 495	Senior Project	1
Foundations Series – select one course from the following:		
TAR 361	Design and Construction of Stage Properties	3
TAR 362	Drafting for Theatre	
TAR 364	Computer Graphics for the Stage	
TAR 367	Stagecraft II	
Fundamental Series - select three courses from the following:		
TAR 260	Lighting Fundamentals	9
TAR 277	Fundamentals of Sound Technology	
TAR 262/262L	Costume Construction and Lab	
TAR 368	Theatrical Rendering and Model Building	
Design Series – select one course from the following:		
TAR 363	Lighting Design	3
TAR 360	Scene Design I	
TAR 366	Costume Design I	

TAR 377	Sound Design	
Electives from TAR and list of approved electives. (The list of electives can be found in the theatre department student handbook.)		15
<b>TOTAL EMPHASIS CREDITS</b>		<b>50</b>
<b>Total Core Credits</b>		<b>21</b>
<b>TOTAL CREDITS</b>		<b>71</b>

### Degree Requirements - B.F.A. in Stage Management

Courses		Credits
TAR 390-391, 490-491	Production Credits	3
DAN 120	Ballet I	3
TAR 265	Fundamentals of Theatrical Design	3
TAR 370	Directing	3
TAR 371	Theatre Management	3
TAR 376	Stage Management	3
TAR 477	The Business of Theatre	1
TAR 495	Senior Project	1
HEA 135	Safety and First Aid	3
Select two courses from the following:		
TAR 260	Lighting Fundamentals	6
TAR 262/262L	Costume Construction with laboratory	
TAR 277	Fundamentals of Sound Technology	
TAR 230	Musical Skills for Musical Theatre II	3
MUS 135	Class Piano for Non-Music Students	
Select 9 credits of theatre and dance electives in groups I, IV, V, VI, VII		
Recommended electives:		
TAR 210	Acting II	9
TAR 213	Stage Combat	
TAR 225	Musical Theatre Performance I	
TAR 362	Drafting for Theatre	
TAR 367	Stagecraft II	
<b>TOTAL PROGRAM CREDITS</b>		<b>41</b>
<b>Total Core Credits</b>		<b>21</b>
<b>TOTAL CREDITS</b>		<b>62</b>

## Theatre and Dance Minors

### Minor in Dance

Requirements for Minor: Dance		Credits
DAN 120	Ballet 1	3
DAN 220	Ballet II	3
DAN 221	Modern Dance I	3
DAN 222	Jazz Dance I	3
<b>OR</b>		
DAN 224	Tap I	
DAN 323	Physiology of Dance	3
DAN 321	Modern Dance II	3
DAN 375	Choreography	3
DAN 427	Dance History	3
<b>TOTAL CREDITS</b>		<b>24</b>

### Minor in Theatre

Requirements for Minor: Theatre		Credits
TAR 111	Creative Expression (or TAR 110 Acting I)	3
TAR 160	Stagecraft	2
TAR 160L	Stagecraft Laboratory	1
TAR 390, 391, 490, 491	Production Credits (1 hour each)	3
Elective in theatre history, theory/criticism, or literature groups II or III		3
Elective in theatre performance or design/technology, groups I or IV		3
Electives in groups I, II, III, IV, V, VI, or VIII		9
<b>TOTAL CREDITS</b>		<b>24</b>



# 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: Mary Ann Baxter

Gallery Coordinator: David Knight

Sculpture/Ceramics Building Coordinator: Ben Huber

**Full-Time Faculty:** Matthew Albritton, Kimberly Allen-Kattus, Nicholas Bonner, Tobias Brauer, Ana England, Steven Finke, Barbara Houghton, Lisa Jameson, Andrea Knarr, Marc Leone, Julie Mader-Meersman, Brad McCombs, Thomas F. McGovern III, Martin Meersman, Kevin Muenta, Hans Schellhas, Paige Wideman

**Undergraduate Programs:**

**Majors:**

Bachelor of Arts in Art

Studio Arts

Art Education

Art History

Applied Photography

Bachelor of Arts in Visual Communication Design

Bachelor of Fine Arts in Art

Art History

Ceramics

Drawing

Visual Communication Design

New Media Art

Intermedia

Painting

Applied Photography

Photography

Printmaking

Sculpture

**Minors:**

Art History

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. Students interested in teaching art as a vocation can choose a major in art education that will prepare them for teaching at the kindergarten, primary, and secondary school levels.

**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 Sculpture and Ceramics Society, Next Generation Artists, League of Extraordinary Photographers, and student

chapters of the American Institute of Graphic Art (AIGA) and the National Art Education Association (NAEA), numerous study-abroad opportunities, department scholarships, internships, and professional exhibition opportunities.

## Visual Arts Majors

**Degree requirements:** All students seeking a degree in visual arts must complete 12 credits in Foundation courses plus one of the majors listed here. For the Bachelor of Arts degree, the student may select from one of five majors: studio arts, art education, art history, applied photography, and graphic design.

Foundation Courses in Art		Credits
ART 131	Basic Drawing	3
ART 132	Two-Dimensional Studies in Visual Art	3
ART 133	Three-Dimensional Studies in Visual Art	3
ART 134	Four-Dimensional Studies and Color Theory	3
<b>TOTAL FOUNDATION CREDITS</b>		<b>12</b>

## Bachelor of Arts Degrees

### Bachelor of Arts: Studio Arts

#### Degree Requirements: B. A. - Studio Arts

Courses	Credits
Select three courses from the following:	
ARTH 101 Survey of Western Art I	
ARTH 102 Survey of Western Art II	9
ARTH 103 Survey of Western Art III	
ARTH 104 Survey of Asian Art	
Select one art history course 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 Nineteenth Century	3
ARTH 355 Art of the Twentieth 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 452 Arts of South Asia	
Electives in this area must include at least 3 credits in 2D arts and 6 credits in 3D arts. Areas include: ART, ARTC (Ceramics), ARTD (Drawing), ARTM (New Art Media), ARTO (Photography), ARTP (Painting), ARTR (Printmaking), ARTS (Sculpture)	18
<b>TOTAL CREDITS IN STUDIO ARTS</b>	<b>30</b>
<b>Total Foundation Credits</b>	<b>12</b>
<b>TOTAL CREDITS</b>	<b>42</b>

**Bachelor of Arts: Art Education**

**Degree Requirements: B. A. - Art Education**

Courses	Credits
Select three courses from the following:	
ARTH 101 Survey of Western Art I	9
ARTH 102 Survey of Western Art II	
ARTH 103 Survey of Western Art III	
ARTH 104 Survey of Asian Art	
One art history course at the 300 level or above	3
ARTD 310 Intermediate Drawing	3
ARTP 230 Painting I (*credit applies to either studio emphasis or studio explorations)	*
<i>Studio Concentration:</i> 12 credits (9 credits must be courses 300 level or above)	12
<i>Studio Explorations:</i> 12 credits from studio courses not in studio emphasis	12
Required art education courses – not offered every semester – see art education coordinator for more information	
ARTE 281 Concepts in Art Education	3
ARTE 381 Art Education Content I	3
ARTE 382 Art Education Content II	3
<b>TOTAL CREDITS IN ART EDUCATION</b>	<b>48</b>
<b>Total Foundation Credits</b>	<b>12</b>
<b>TOTAL CREDITS</b>	<b>60</b>
Students pursuing an art education/P-12 degree should review that 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 coordinator of certification and advisement in the College of Education and Human Services.	
To complete degree requirements, students must satisfy art, education, and general education requirements.	

**Bachelor of Arts: Art History**

**Degree Requirements: B.A. - Art History**

Courses	Credits	
ARTH 101 Survey of Western Art I	3	
ARTH 102 Survey of Western Art II	3	
ARTH 103 Survey of Western Art III	3	
ARTH 104 Survey of Asian Art	3	
Select three art history courses from:		
ARTH 349 Women and Art	9	
ARTH 350 Ancient Art		
ARTH 351 Medieval Art		
ARTH 352 Northern European Art/Renaissance		
ARTH 353 Baroque Art		
ARTH 354 Art of the Nineteenth Century		
ARTH 355 Art of the Twentieth 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 452 Arts of South Asia		
Select three courses with a minimum of one 2D studio and one 3D studio from the following:		
ART 300 Art of the Book		
ART 317 Web Design for Artists		
ART 331 Digital Design		
ART 380 Study Abroad in Art		

ART 394 Special Topics in Art	
ARTC 240 Ceramics I	
ARTC 340 Wheel Throwing	
ARTC 341 Ceramic Sculpture	
ARTC 342 Raku and Primitive Firing	
ARTC 442 Ceramics Materials and Techniques	
ARTC 443 Kiln Construction	
ARTD 310 Intermediate Drawing	
ARTD 410 Advanced Drawing	
ARTM 350 Video Installation and Sound	
ARTM 394 Topics in New Media Art	
ARTM 450 Advanced Video, Installation and Sound	
ARTM 451 Advanced New Media-Integrative Art	
ARTO 210 Basic Photography	
ARTO 218 Study Abroad Beginning Photography	
ARTO 310 Photography II	
ARTO 311 Intermediate Photography	
ARTO 315 Photo-Documentary	
ARTO 318 Study Abroad Photography II	
ARTO 320 Intermediate Digital Photography	
ARTO 410 Advanced Photography	
ARTO 411 Summer Workshop in Photography	9
ARTO 418 Study Abroad Photography III	
ARTP 230 Painting I	
ARTP 330 Painting II	
ARTP 333 Materials and Techniques in Painting	
ARTP 430 Painting III	
ARTR 272 Introduction to Printmaking	
ARTR 373 Intermediate Printmaking	
ARTR 374 Techniques in Printmaking	
ARTR 473 Advanced Printmaking	
ARTR 474 Workshop in Printmaking	
ARTS 262 Sculpture I	
ARTS 362 Topics in Sculpture: Concepts and Media	
ARTS 460 Sculpture: Advanced Study	
Additional requirement: two semesters or high school equivalent in Arabic, Chinese, French, German, Italian, Japanese, Latin, Russian, or Spanish	6
Electives in anthropology, history, philosophy, religion – consult with advisor to determine additional courses.	6
<b>TOTAL CREDITS ART HISTORY</b>	<b>34-42</b>
<b>Total Foundation Credits</b>	<b>12</b>
<b>TOTAL CREDITS</b>	<b>46-54</b>

**Bachelor of Arts: Applied Photography**

**Degree Requirements: B.A. - Applied Photography**

Courses	Credits
ARTH 103 Survey of Western Art III	3
Select one course from the following:	
ARTH 101 Survey of Western Art I	3
ARTH 102 Survey of Western Art II	
ARTH 104 Survey of Asian Art	
ARTH 358 History of Photography	3
One art history elective at the 300 level or above	3
<i>Required Studio Courses</i>	
ART 317 Web Design for Artists	3
ARTO 210 Basic Photography	3
ARTO 310 Photography II	3
ARTO 311 Intermediate Photography	3
ARTO 312 Applied Photography	3
ARTO 383 Applied Photography Review	0

ARTO 315	Photo-Documentary	3
ARTO 320	Intermediate Digital Photography	3
ARTO 413	Applied Photography: Studio and Architecture	3
ARTO 414	Applied Photography: Studio and Location	3
Select one course from the following (2D) to be taken prior to the end of sophomore year:		
ART 300	Art of the Book	
ART 394	Special Topics in Art	
ARTD 310	Intermediate Drawing	3
ARTR 272	Introduction to Printmaking	
ARTR 373	Intermediate Printmaking	
ARTR 374	Techniques in Printmaking	
Select one course from the following (3D) to be taken prior to the end of sophomore year:		
ART 394	Special Topics in Art	
ARTC 240	Ceramics I	
ARTM 250	Four Dimensional Studies	
ARTM 350	Video Installation and Sound	
ARTM 394	Topics in New Media Art	3
ARTM 450	Advanced Video, Installation and Sound	
ARTM 451	Advanced New Media - Integrative Art	
ARTS 262	Sculpture I	
<b>TOTAL CREDITS IN APPLIED PHOTOGRAPHY</b>		<b>45</b>
<b>Total Foundation Credits</b>		<b>12</b>
<b>TOTAL CREDITS</b>		<b>57</b>

### 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 Visual Communication Design Admittance Review: "ART 131: Basic Drawing," "ART 132: Two-Dimensional Studies in Visual Art," "ART 133: Three-Dimensional Studies in Visual Art," "ART 134: Four-Dimensional Studies and Color Theory," "ARTV 201: Introduction to Computer Graphic Design," "ARTG 215: Visual Communication Design," and "ARTG 217: Typography I."

### Degree Requirements: B. A. - Visual Communication Design

Courses	Credits		
ARTH 103	Survey of Western Art III	3	
ARTV 201	Introduction to Computer Graphics for Design	3	
ARTV 215	Visual Communication Design I	3	
ARTV 217	Typography I	3	
ARTV 283	Visual Communication Design Admittance Review	0	
Select one course from the following:			
ARTH 101	Survey of Western Art I		
ARTH 102	Survey of Western Art II	3	
ARTH 104	Survey of Asian Art		
ARTV 317	Typography II	3	
ARTO 210	Basic Photography		
	OR	3	
ARTO 211	Basic Photography for Graphic Designers		
ARTD 310	Intermediate Drawing	3	
ARTV 315	Visual Communication Design II	3	
ARTV 330	Interaction Design for Visual Communication	3	
ARTP 230	Painting I	3	
ARTV 325	Techniques in Visual Communication Design	3	
ARTH 321	History of Visual Communication Design	3	
Studio elective at the 200 level or above			3
Studio elective at the 300 level or above			3
<b>TOTAL CREDITS IN VISUAL COMMUNICATION DESIGN</b>		<b>45</b>	
<b>Total Foundation Credits</b>		<b>12</b>	
<b>TOTAL CREDITS</b>		<b>57</b>	

### Bachelor of Fine Arts Degrees

All students seeking a Bachelor of Fine Arts degree in visual arts must complete the 12-credit common core plus one of the ten areas of emphasis listed here: art history, ceramics, drawing, visual communication design, new media art, intermedia, painting, photography, printmaking, and sculpture.

Core Courses	Credits	
ART 131	Basic Drawing	3
ART 132	Two-Dimensional Studies in Visual Art	3
ART 133	Three-Dimensional Studies in Visual Art	3
ART 134	Four-Dimensional Studies and Color Theory	3
<b>TOTAL FOUNDATION CREDITS</b>		<b>12</b>

### Bachelor of Fine Arts: Art History

#### Degree Requirements: B.F.A: Art History

Courses	Credits		
ARTH 101	Survey of Western Art I	3	
ARTH 102	Survey of Western Art II	3	
ARTH 103	Survey of Western Art III	3	
ARTH 104	Survey of Asian Art	3	
ARTH 458	Art History: Methodology and Criticism	3	
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 Nineteenth Century	12	
ARTH 355	Art of the Twentieth 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 452	Arts of South Asia		
ARTH 454	Art Now		
ARTP 230	Painting I	3	
ARTS 262	Sculpture I	3	
ART 299	Portfolio Review (to be taken 2nd semester of year 2 or 1st semester of year 3 at the latest)	0	
Select two courses from the following:			
ARTC 240	Ceramics I		
ARTO 210	Basic Photography	6	
ARTR 272	Introduction to Printmaking		
Foreign language requirement: four semesters or high school equivalent in Arabic, Chinese, French, German, Italian, Japanese, Latin, Russian, or Spanish			12
Select 9 hours of electives from anthropology, history, philosophy, and religion. (Consult with advisor regarding appropriate courses; other courses are available upon approval)			9
ART 497	Senior Exhibition	1	
<b>TOTAL CREDITS IN ART HISTORY</b>		<b>64</b>	
<b>Total Foundation Credits</b>		<b>12</b>	
<b>TOTAL CREDITS</b>		<b>64 - 76</b>	

**Bachelor of Fine Arts: Ceramics**

The following requirements may be taken after completing "ART 131: Basic Drawing" and "ART 132: Two-Dimensional Studies in Visual Art."

**Degree Requirements: B.F.A. - Ceramics**

Courses	Credits
Select three courses from the following:	
ARTH 101 Survey of Western Art I	9
ARTH 102 Survey of Western Art II	
ARTH 103 Survey of Western Art III	
ARTH 104 Survey of Asian Art	
Two art history classes at the 300 level or above	6
ARTP 230 Painting I	3
ARTC 240 Ceramics I	3
ARTS 262 Sculpture I	3
ARTR 272 Introduction to Printmaking	3
ARTO 210 Basic Photography	3
ART 299 Portfolio Review (to be taken 2nd semester of sophomore year)	0
ARTC 340 Wheel Throwing	3
ARTC 341 Ceramic Sculpture	3
ARTC 440 Advanced Ceramics	9
ARTC 442 Ceramics Materials and Techniques	3
ART 450 Advanced Studio Seminar	3
Any 300- or 400-level ceramics or sculpture course	3
3 additional credits in ceramics at the 300 level	3
ART 497 Senior Exhibition	1
<b>TOTAL CREDITS IN CERAMICS</b>	<b>58</b>
<b>Total Foundation Credits</b>	<b>12</b>
<b>TOTAL CREDITS</b>	<b>70</b>

**Bachelor of Fine Arts: Drawing****Degree Requirements: B.F.A. - Drawing**

Courses	Credits
Select three courses from the following:	
ARTH 101 Survey of Western Art I	9
ARTH 102 Survey of Western Art II	
ARTH 103 Survey of Western Art III	
ARTH 104 Survey of Asian Art	
Two art history classes level 300 or above	6
ARTP 230 Painting I	3
ARTC 240 Ceramics I	3
ARTS 262 Sculpture I	3
ARTR 272 Introduction to Printmaking	3
ARTO 210 Basic Photography	3
ART 299 Portfolio Review (to be taken 2nd semester of sophomore year)	0
ARTD 310 Intermediate Drawing	6
ARTP 330 Painting II	3
ARTD 410 Advanced Drawing	6
ARTP 430 Painting III	3
ART 450 Advanced Studio Seminar	3
6 credits of art electives	6
ART 497 Senior Exhibition	1
<b>TOTAL CREDITS IN DRAWING</b>	<b>58</b>
<b>Total Foundation Credits</b>	<b>12</b>
<b>TOTAL CREDITS</b>	<b>70</b>

**Bachelor of Fine Arts: Visual Communication Design**

**Special admission requirements:** Successful review in "ARTV 283: Admittance Review" is required prior to submitting work for "ART 299: Portfolio Review." Successful review in ART 299 is required for admission to the BFA degree option.

**Degree Requirements: B.F.A. - Visual Communication Design**

Courses	Credits
Select two courses from the following:	
ARTH 101 Survey of Western Art I	6
ARTH 102 Survey of Western Art II	
ARTH 103 Survey of Western Art III	
ARTH 104 Survey of Asian Art	
ARTV 201 Introduction to Computer Graphics for Design	3
ARTV 215 Visual Communication Design I	3
ARTV 217 Typography I	3
ARTV 283 Review	0
ARTV 317 Typography II	3
ARTO 210 Basic Photography OR ARTO 211 Basic Photography for Graphic Designers	3
ARTD 310 Intermediate Drawing	3
ARTV 315 Visual Communication Design II	3
ARTV 330 Interaction Design for Visual Communication	3
ARTP 230 Painting I	3
ART 299 Portfolio Review (must be taken in either all or spring of the intermediate-level year)	0
ARTV 325 Techniques in Visual Communication Design	3
ARTH 321 History of Visual Communication Design	3
3D studio elective	3
ARTV 417 Typography III	3
ARTV 425 Information Design	3
2D studio elective	3
ARTV 415 Visual Communication Design III	3
ARTV 427 Motion Design	3
Studio elective, 300 level or above	3
ARTG 496 Graphic Design Experiential Component OR Cooperative Education	3
CEP 300	
ARTV 428 Visual Communication Design Capstone	3
ART 497 Senior Exhibition	1
<b>TOTAL CREDITS IN VISUAL COMMUNICATION DESIGN</b>	<b>62</b>
<b>Total Foundation Credits</b>	<b>12</b>
<b>TOTAL CREDITS</b>	<b>79</b>

**Bachelor of Fine Arts: New Media Art**

The New Media Art emphasis is designed for students who want to explore areas such as electronic art, robotic art, installation or experimental video and film. New Media Art utilizes 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.

Students seeking a Bachelor of Fine Arts degree with area of emphasis in New Media Art should complete the following courses in addition to the required 12 credits in Foundation courses.

### Degree Requirements: B.F.A. - New Media Art

Courses	Credits
ARTH 102 Survey of Western Art II	3
ARTH 103 Survey of Western Art III	3
Art history elective 300 level or above	3
ARTH 454 Art Now	3
ARTO 210 Basic Photography	3
ARTS 262 Sculpture I	3
ARTD 310 Intermediate Drawing	3
ART 331 Digital Design	3
ARTM 350 Video Installation and Sound	3
ART 299 Portfolio Review (to be taken 2nd semester of sophomore year)	0
ART 317 Web Design for Artists	3
ARTM 394 Topics in New Media Art	6
ARTM 450 Advanced Video, Installation & Sound	3
ART 450 Advanced Studio Seminar	3
ARTM 451 Advanced New Media-Integrative Art	3
ART 497 Senior Exhibition	1
12 credits of Art or Media Informatics electives selected from the following:	
ART 300 Art of the Book	
ART 317 Web Design for Artists	
ART 394 Special Topics in Art	
ARTC 240 Ceramics I	
ARTC 340 Wheel Throwing	
ARTC 341 Ceramic Sculpture	
ARTD 410 Advanced Drawing	
ARTO 413 Applied Photography: Studio and Architecture	
ARTO 414 Applied Photography: Studio and Location	12
ARTO 418 Study Abroad Photography II	
ARTP 230 Painting I	
ARTP 330 Painting II	
ARTP 333 Materials and Techniques in Painting	
ARTR 272 Introduction to Printmaking	
ARTR 373 Intermediate Printmaking	
ARTR 374 Techniques in Printmaking	
ARTS 362 Topics in Sculpture: Concepts and Media	
ARTS 460 Sculpture: Advanced Study	
MIN 240 Introduction to Interactive Media	
MIN 340 Media Scripting for Interactivity	
MIN 345 Introduction to 3D Modeling	
MIN 352 Digital Media Projects	
MIN 391 Impact of Computer Games and Virtual Worlds	
Integrative Studio – select one course from the following:	
ART 300 Art of the Book	
ART 380 Study Abroad in Art	
ART 394 Special Topics in Art	
ARTO 218 Study Abroad Beginning Photography	3
ARTO 315 Photo-Documentary	
ARTO 318 Study Abroad Photography II	
ARTO 418 Study Abroad Photography III	
<b>TOTAL CREDITS IN NEW MEDIA ART</b>	<b>61</b>
<b>Total Foundation Credits</b>	<b>12</b>
<b>TOTAL CREDITS</b>	<b>73</b>

### Bachelor of Fine Arts: Intermedia

The following requirements may be taken after completing "ART 131: Basic Drawing" and "ART 132: Two-Dimensional Studies in Visual Art."

### Degree Requirements: B.F.A. - Intermedia

Courses	Credits
Select three courses from the following:	
ARTH 101 Survey of Western Art I	
ARTH 102 Survey of Western Art II	9
ARTH 103 Survey of Western Art III	
ARTH 104 Survey of Asian Art	
Two art history classes level 300 or above	6
ARTP 230 Painting I	3
ARTC 240 Ceramics I	3
ARTS 262 Sculpture I	3
ARTR 272 Introduction to Printmaking	3
ARTO 210 Basic Photography	3
ART 299 Portfolio Review (to be taken second semester of sophomore year)	0
ARTD 310 Intermediate Drawing	3
Studio electives chosen by student with committee and approved by department chair	21-24
ART 450 Advanced Studio Seminar	3
ART 497 Senior Exhibition	1
<b>TOTAL CREDITS IN INTERMEDIA</b>	<b>58-61</b>
<b>Total Foundation Credits</b>	<b>12</b>
<b>TOTAL CREDITS</b>	<b>70-73</b>

### Bachelor of Fine Arts: Painting

### Degree Requirements: B.F.A. - Painting

Courses	Credits
Select three courses from the following:	
ARTH 101 Survey of Western Art I	
ARTH 102 Survey of Western Art II	9
ARTH 103 Survey of Western Art III	
ARTH 104 Survey of Asian Art	
Two art history classes 300 level or above	6
ARTP 230 Painting I	3
ARTC 240 Ceramics I	3
ARTS 262 Sculpture I	3
ARTR 272 Introduction to Printmaking	3
ARTO 210 Basic Photography	3
ART 299 Portfolio Review (to be taken second semester of sophomore year)	0
ARTD 310 Intermediate Drawing	6
ARTP 330 Painting II	6
ARTP 333 Materials and Techniques in Painting (This course is offered every other year in the fall semester. Last offered in fall 2010.)	3
ARTD 410 Advanced Drawing	3
ARTP 430 Painting III	6
ART 450 Advanced Studio Seminar	3
Elective in art	3
ART 497 Senior Exhibition	1
<b>TOTAL CREDITS IN PAINTING</b>	<b>61</b>
<b>Total Foundation Credits</b>	<b>12</b>
<b>TOTAL CREDITS</b>	<b>73</b>

**Bachelor of Fine Arts: Applied Photography**

The following requirements may be taken after completing "ART 131: Basic Drawing" and "ART 132: Two-Dimensional Studies in Visual Art."

**Degree Requirements: B.F.A. - Applied Photography**

Courses	Credits
ARTH 103 Survey of Western Art III	3
Select one course from the following:	
ARTH 101 Survey of Western Art I	3
ARTH 102 Survey of Western Art II	
ARTH 104 Survey of Asian Art	
One art history course level 300 or above	3
ARTO 210 Basic Photography	3
ART 299 Portfolio Review (required second semester of sophomore year)	0
ARTO 317 Web Design for Artists	3
ARTH 358 History of Photography	3
ARTO 310 Photography II	3
ARTO 311 Intermediate Photography	3
ARTO 312 Applied Photography I	3
ARTO 383 Applied Photography Review	0
ARTO 315 Photo-Documentary	3
ARTO 320 Intermediate Digital Photography	3
ARTO 413 Applied Photography: Studio and Architecture	3
ARTO 414 Applied Photography: Studio and Location	3
Select 6 credits from the following:	
ART 300 Art of the Book	6
ART 331 Digital Design	
ART 499 Gallery/Museum Internship	
ARTO 218 Study Abroad Beginning Photography	
ARTO 318 Study Abroad Photography II	
ARTO 411 Summer Workshop in Photography	
ARTO 418 Study Abroad Photography III	
ARTM 350 Video Installation and Sound	
ARTM 394 Topics in New Media Art	
ARTM 450 Advanced Video, Installation and Sound	
ARTM 451 Advanced New Media-Integrative Art	
2D studio elective	3
3D studio elective	3
ART 450 Advanced Studio Seminar	3
ART 497 Senior Exhibition	1
<b>TOTAL IN APPLIED PHOTOGRAPHY</b>	<b>55</b>
<b>Total Foundation Credits</b>	<b>12</b>
<b>TOTAL CREDITS</b>	<b>67</b>

**Bachelor of Fine Arts: Photography**

The following requirements may be taken after completing "ART 131: Basic Drawing" and "ART 132: Two-Dimensional Studies in Visual Art."

**Degree Requirements: B.F.A. - Photography**

Courses	Credits
ARTH 103 Survey of Western Art III	3
Select two courses from the following:	
ARTH 101 Survey of Western Art I	6
ARTH 102 Survey of Western Art II	
ARTH 104 Survey of Asian Art	
One art history course level 300 or above	3
ARTH 358 History of Photography	3
ARTP 230 Painting I	3
ARTC 240 Ceramics I	3

ARTS 262 Sculpture I	3
ARTR 272 Introduction to Printmaking	3
ARTO 210 Basic Photography	3
ART 299 Portfolio Review (to be taken 2nd semester of sophomore year)	0
ARTO 310 Photography II	3
ARTO 311 Intermediate Photography	3
ARTO 312 Applied Photography I	3
ARTO 383 Applied Photography Review	0
ARTO 315 Photo-Documentary	3
ART 317 Web Design for Artists	3
ARTO 413 Applied Photography: Studio and Architecture OR	3
ARTO 414 Applied Photography: Studio and Location	
ARTO 320 Intermediate Digital Photography	3

Select one course from the following:

ART 300 Art of the Book	3	
ART 331 Digital Design		
ART 499 Gallery/Museum Internship		
ARTO 218 Study Abroad Beginning Photography		
ARTO 318 Study Abroad Photography II		
ARTO 394 Topics in Photography		
ARTO 411 Summer Workshop in Photography		
ARTO 418 Study Abroad Photography III		
ARTM 350 Video Installation and Sound		
ARTM 394 Topics in New Media Art		
ARTM 450 Advanced Video, Installation and Sound		
ARTM 451 Advanced New Media-Integrative Art		
ART 450 Advanced Studio Seminar		3
ART 497 Senior Exhibition		1
<b>TOTAL IN PHOTOGRAPHY</b>		<b>61</b>
<b>Total Core Credits</b>	<b>12</b>	
<b>TOTAL CREDITS</b>	<b>73</b>	

**Bachelor of Fine Arts: Printmaking****Degree Requirements: B.F.A. - Printmaking**

Courses	Credits
Select three courses from the following:	
ARTH 101 Survey of Western Art I	9
ARTH 102 Survey of Western Art II	
ARTH 103 Survey of Western Art III	
ARTH 104 Survey of Asian Art	
Two art history courses 300 level or above	6
ARTP 230 Painting I	3
ARTC 240 Ceramics I	3
ARTS 262 Sculpture I	3
ARTR 272 Introduction to Printmaking	3
ARTO 210 Basic Photography	3
ART 299 Portfolio Review (to be taken after ARTR 373)	0
ARTR 373 Intermediate Printmaking	3
ARTR 375 Screen Printing	3
ARTR 473 Advanced Printmaking	6
Three printmaking electives at the 300 level or above	9
ART 450 Advanced Studio Seminar	3
ART 497 Senior Exhibition	1
<b>TOTAL CREDITS IN PRINTMAKING</b>	<b>55</b>
<b>Total Foundation Credits</b>	<b>12</b>
<b>TOTAL CREDITS</b>	<b>67</b>

## Bachelor of Fine Arts: Sculpture

The following requirements may be taken after completing "ART 131: Basic Drawing" and "ART 132: Two-Dimensional Studies in Visual Art."

### Degree Requirements: B.F.A. - Sculpture

Courses	Credits
Select three courses from the following:	
ARTH 101 Survey of Western Art I	9
ARTH 102 Survey of Western Art II	
ARTH 103 Survey of Western Art III	
ARTH 104 Survey of Asian Art	
Two art history courses level 300 or above	
ARTP 230 Painting I	3
ARTC 240 Ceramics I	3
ARTS 262 Sculpture I	3
ARTR 272 Introduction to Printmaking	3
ARTO 210 Basic Photography	3
ART 299 Portfolio Review (to be taken 2nd semester of sophomore year)	0
ARTS 360 Techniques in Sculpture	3
ARTS 362 Topics in Sculpture: Concepts and Media	9
ARTS 460 Sculpture: Advanced Study	9
Elective chosen from 300- or 400-level ceramics or sculpture courses	3
ART 450 Advanced Studio Seminar	3
ART 497 Senior Exhibition	1
<b>TOTAL CREDITS IN SCULPTURE</b>	<b>58</b>
<b>Total Foundation Credits</b>	<b>12</b>
<b>TOTAL CREDITS</b>	<b>70</b>

## Visual Arts Minors

### Minor in Studio Art

Requirements for Minor: Studio Art	Credits
ART 132 Two-Dimensional Studies in Visual Art	3
ART 133 Three-Dimensional Studies in Visual Art	3
Select two courses from the following:	
ARTH 101 Survey of Western Art I	6
ARTH 102 Survey of Western Art II	
ARTH 103 Survey of Western Art III	
ARTH 104 Survey of Asian Art	
Courses may be concentrated in one discipline or generalized by taking a course from each. Discipline areas include ART, ARTC (Ceramics), ARTD (Drawing), ARTM (New Media Art), ARTP (Painting), ARTO (Photography), and ARTR (Printmaking),	
<b>TOTAL CREDITS</b>	<b>27</b>

### Minor in Art History

Requirements for Minor: Art History	Credits
ARTH 101 Survey of Western Art I	3
ARTH 102 Survey of Western Art II	3
ARTH 103 Survey of Western Art III	3
ARTH 104 Survey of Asian Art	3
Select three courses from the following:	
ARTH 349 Women and Art	9
ARTH 350 Ancient Art	
ARTH 351 Medieval Art	
ARTH 352 Northern European Art/Renaissance	
ARTH 353 Baroque Art	
ARTH 354 Art of the Nineteenth Century	
ARTH 355 Art of the Twentieth 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 452 Arts of South Asia	
ARTH 454 Art Now	
ARTH 458 Art History: Methodology and Criticism	
Studio art electives – include ART, ARTC (Ceramics), ARTD (Drawing), ARTM (New Media Art), ARTO (Photography), ARTR (Printmaking), and ARTS (SCULPTURE)	3
<b>TOTAL CREDITS</b>	<b>24</b>

# DEPARTMENT OF WORLD LANGUAGES AND LITERATURES

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## Undergraduate Programs:

### Majors:

Bachelor of Arts

French

French with teaching certification

German

German with teaching certification

Spanish

Spanish with teaching certification

### Minors:

French

German

Spanish

Chinese Studies (see interdisciplinary section of catalog)

**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; tourist 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.

**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 a course. The WebCAPE (<http://worldlanglit.nku.edu/advising/placement.php>) 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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

### Degree Requirements: B.A. – French

Courses		Credits
FRE 201	Intermediate French I	3
<i>*Prerequisite:</i>	<i>FRE 101 Elementary French I and FRE 102 Elementary French II</i>	
FRE 202	Intermediate French II	3
FRE 304	French Composition and Conversation	3
Culture Study: select three courses 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	9
FRE 401	French Phonetics and Pronunciation	
FRE 402	Advanced French Grammar and Syntax	
FRE 480	Studies in French Culture	
FRE 520	Readings in French (culture topic)	
Literary Study: select three courses from the following:		
FRE 320	Survey of French Literature	
FRE 322	French Drama	
FRE 323	French Prose Fiction	9
FRE 481	Studies in French Literature	
FRE 520	Readings in French (literary topic)	
Interdisciplinary Component: select one course from the following:		
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	3
HIS 348	History of France 1804-1918	
HIS 349	History of France 1918 to Present	
HIS 409	The French Revolution	
PSC 330	Politics of Europe	
Two FRE electives above the 202 level		6
WLL 400	World Languages Program Assessment	0
<b>Program Credits</b>		<b>36</b>
<b>Additional Prerequisite Credits</b>		<b>6</b>
<b>TOTAL CREDITS</b>		<b>42</b>



### Bachelor of Arts with a major in French and 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 for world language majors.

#### Degree Requirements: B.A. – French and Teaching Certification

Courses	Credits
Requirements for Bachelor of Arts in French (listed above)	42
FRE 350 Methods of Teaching French	3
FRE 401 French Phonetics and Pronunciation*	0
<b>OR</b>	
FRE 402 Advanced French Grammar and Syntax*	
<b>TOTAL CREDITS</b>	<b>45</b>

\*These contribute to fulfilling the 9-credit requirement for French culture study. Therefore, they do not increase the number of credits required on the program.

### 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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

#### Degree Requirements: B.A. – German

Courses	Credits
GER 201 Intermediate German I*	3
<i>*Prerequisite: GER 101 Elementary German I and GER 102 Elementary German II</i>	
GER 202 Intermediate German II	3
GER 304 German Composition and Conversation	3
Culture Study: select three courses from the following:	
GER 310 Contemporary German Life	9
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 three courses from the following:	
GER 320 Survey of German Literature	9
GER 322 German Drama	
GER 323 German Prose Fiction	
GER 481 Studies in German Literature	
GER 520 Readings: German (literary topic)	
Interdisciplinary Component: select one course from the following:	
CIN 201 Survey of World Cinema	
ENG 206 Western World Literature I	
ENG 207 Western World Literature II	
ENG 324 Holocaust Literature	

ENG 350 Literary Criticism	3	
ENG 371 Traditional Grammar		
ENG 381 Introduction to Linguistics		
GEO 402 Geography of Europe		
HIS 303 Europe in the Middle Ages		
HIS 304 Renaissance Europe		
HIS 305 Reformation Europe		
HIS 308 Modern Europe 1870-1920		
HIS 309 Modern Europe since 1920		
HIS 413 History of Nazi Germany		
HIS 414 The Holocaust		
PSC 330 Politics of Europe		
PSC 394 Comparative Politics (relevant topic)		
PSC 394 International Politics (relevant topic)		
Two GER electives above the 202 level		6
WLL 400 World Languages Program Assessment		0
<b>Program Credits</b>	<b>36</b>	
<b>Additional Prerequisite Credits</b>	<b>6</b>	
<b>TOTAL CREDITS</b>	<b>42</b>	

### Bachelor of Arts with a major in German and 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 for world language majors.

#### Degree Requirements: B.A. – German and Teaching Certification

Courses	Credits
Requirements for Bachelor of Arts in German (listed above)	42
GER 350 Methods of Teaching German	3
GER 401 German Phonetics and Pronunciation*	0
<b>OR</b>	
GER 402 Advanced German Grammar and Syntax*	
<b>TOTAL CREDITS</b>	<b>45</b>

\*These contribute to fulfilling the 9-credit requirement for German culture study. Therefore, they do not increase the number of credits required on the program.

### 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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

#### Degree Requirements: B.A. – Spanish

Courses	Credits
SPI 201 Intermediate Spanish I*	3
<i>*Prerequisites: SPI 101 Elementary Spanish I and SPI 102 Elementary Spanish II</i>	
SPI 202 Intermediate Spanish II	3
SPI 304 Spanish Composition and Conversation	3

Culture Study: select three courses from the following:	
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: Spanish and Spanish-American Culture
SPI 520	Readings in Spanish (culture topic)
	9
Literary Study: select three courses from the following:	
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)
	9
Interdisciplinary Component: select one course from the following:	
ANT 245	Peoples of Latin America and the Caribbean
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
HIS 325	Early Latin American History
HIS 326	Modern Latin American History
HIS 465	Nature and Development in Latin America
GEO 402	Geography of Europe
GEO 406	Geography of Latin America
PSC 330	Politics of Europe
PSC 335	Politics of Latin America
	3
Two SPI electives above the 202 level	6
WLL 400 World Languages Program Assessment	0
	<b>Program Credits 36</b>
	<b>Additional Prerequisite Credits 6</b>
	<b>TOTAL CREDITS 42</b>

### Bachelor of Arts with a major in Spanish and 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 for world language majors.

### Degree Requirements: B.A. – Spanish and Teaching Certification

Courses	Credits
Requirements for Bachelor of Arts in Spanish (listed above)	42
SPI 350	Methods of Teaching Spanish
	3
SPI 401	Spanish Phonetics and Pronunciation*
	<b>OR</b>
SPI 402	Advanced Spanish Grammar and Syntax*
	0
	<b>TOTAL CREDITS 45</b>

\*These contribute to fulfilling the 9-credit requirement for Spanish culture study. Therefore, they do not increase the number of credits required on the program.

## World Languages and Literatures Minors

### Minor in French

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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for Minor: French		Credits
FRE 201	Intermediate French I* <i>*Prerequisites: FRE 101 Elementary French I and FRE 102 Elementary French II</i>	3
FRE 202	Intermediate French II	3
FRE 304	French Composition and Conversation	3
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	3
FRE 402	Advanced French Grammar and Syntax	
FRE 480	Studies in French Culture	
FRE 520	Readings in 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	3
FRE 481	Studies in French Literature	
FRE 520	Readings in French (literary topic)	
Two FRE electives above the 202 level		6
	<b>Program Credits</b>	<b>21</b>
	<b>Additional prerequisite credits</b>	<b>6</b>
	<b>TOTAL CREDITS</b>	<b>27</b>

**Minor in German**

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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for Minor: German		Credits
GER 201	Intermediate German I* <i>*Prerequisite: GER 101 Elementary German I and GER 102 Elementary German II</i>	3
GER 202	Intermediate German II	3
GER 304	German Composition and Conversation	3
Culture Study: select one course from the following:		
GER 310	Contemporary German Life	3
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 one course from the following:		
GER 320	Survey of German Literature	3
GER 322	German Drama	
GER 323	German Prose Fiction	
GER 481	Studies in German Literature	
GER 520	Readings: German (literary topic)	
Two GER electives above the 202 level		6
<b>Program Credits</b>		<b>21</b>
<b>Additional Prerequisite Credits</b>		<b>6</b>
<b>TOTAL CREDITS</b>		<b>27</b>

**Minor in Spanish**

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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Spanish		Credits
SPI 201	Intermediate Spanish I* <i>*Prerequisites: SPI 101 Elementary Spanish I and SPI 102 Elementary Spanish II</i>	3
SPI 202	Intermediate Spanish II	3
SPI 304	Spanish Composition and Conversation	3
Culture Study: select one course from the following:		
SPI 310	Spanish Culture and Civilization	3
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: Spanish and Spanish-American Culture	
SPI 520	Readings in Spanish (culture topic)	
Literary Study: select one course from the following:		
SPI 320	Survey of Peninsular Spanish Literature	3
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)	
Two SPI electives above the 202 level		6
<b>Program Credits</b>		<b>21</b>
<b>Additional Prerequisite Credits</b>		<b>6</b>
<b>TOTAL CREDITS</b>		<b>27</b>

# HAILE/U.S. BANK COLLEGE OF BUSINESS

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**Location:** Business Academic Center 305

**Telephone:** 859-572-5551

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

**Web Address:** <http://cob.nku.edu/>

**Dean:** Richard Kolbe

**Other Key Personnel:**

Associate Dean: Doris Shaw

Budget Officer: Donna Grey

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 Foundation of Knowledge general education program required for all undergraduate degree programs at NKU, 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, career and technical education, 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).

The career and technical education programs are accredited by the National Council for the Accreditation of Teacher Education (NCATE).

## Centers

### Alternative Dispute Resolution Center

**Location:** Business Academic Center 311

**Telephone:** 859-572-6581

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

**Web Address:** <http://adr.nku.edu>

**Director:** Michael R. Carrell

The primary mission of the Alternative Dispute Resolution (ADR) 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 (CEAD) 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 wellbeing.

### 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.

### **Fifth Third Bank Entrepreneurship Institute**

**Location:** Business Academic Center 395

**Telephone:** 859-572-5931

**Email:** [weisenbac1@nku.edu](mailto:weisenbac1@nku.edu)

**Web Address:** <http://ei.nku.edu/>

**Director:** Eileen D. Weisenbach Keller

The Fifth Third Bank Entrepreneurship Institute at NKU offers graduate and undergraduate academic and outreach programs in entrepreneurship. The institute is an exciting partnership between the fastest growing banking organization in the tri-state region and the fastest growing university in Kentucky. The Institute facilitates student skill development through interaction with entrepreneurs, lenders, investors and business people. Through internships, mentorships, competitions, small business development and signature events, students learn from practical application and consistent interaction with entrepreneurs. The Institute is the home of the Collegiate Entrepreneurs Organization, and Students in Free Enterprise student groups, which provide opportunities for networking and community engagement for our students.

### **Marketing Research Partnership Program**

**Location:** Business Academic Center 312

**Telephone:** 859-572-6409

**Email Address:** [levina@nku.edu](mailto:levina@nku.edu)

**Web Address:** <http://mrpp.nku.edu>

**Director:** Aron Levin

The mission of the Marketing Research Partnership Program (MRPP) 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 market 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.

## 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:** Carol M. Lawrence

**Other Key Personnel:**

Director, Master of Accountancy: Robert Salyer

**Department Coordinator:** Ann Peelman

**Full-Time Faculty:** Steven Devoto, Teresa Elliott, Darius Fatemi, Ruth Champion Hughes, J.C. Kim, Young Kim, James Kirtley, Carol M. Lawrence, Linda Marquis, Catherine Neal, Vincent Owghoso, Lorraine Ruh, Robert Russ, Robert Salyer, Peter Theuri, J.C. "Duke" Thompson, Sonia Wasan

**Undergraduate Programs:**

**Majors:**

Bachelor of Science

Accounting

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 manages financial assets to achieve organizational goals.

**Special opportunities for our students:** The accounting major requires practical training through either a co-op or internship. Finance majors are also encouraged to participate in internship programs. Internship and co-op opportunities are very diverse and are continually being upgraded through the efforts of the department's professional advisory boards and faculty. There are also active student organizations in each major that provide 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 have a 2.00 cumulative GPA for the following courses: ACC 202 and all 300- and 400-level accounting courses.

### Accounting, Finance, and Business Law 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 may become an 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 (CPA) 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 semester hours including a bachelor's degree. Students should consult the State Board of Accountancy in the state where they plan to seek em-

ployment 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, (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.

**You should also know:** A grade of C or better in all program courses in the accounting 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.

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 requirements, then the prerequisite is given in italics below the course for which it is a prerequisite, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

#### Degree Requirements: B.S. – Accounting with required business administration minor

Selective Admission Courses		Credits
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics* <i>*Prerequisite: C- or better in MAT 109 Algebra for College Students or ACT ≥ 23</i>	3
ACC 200	Principles of Accounting I-Financial* <i>*Prerequisite: INF 101 Computer Literacy and Informatics</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
<b>Credits for Selective Admission</b>		<b>30</b>

College of Business Core Courses		
BIS 300	Management Information Systems	3
BUS 330	Ethics: Managerial Decision-Making	3
ECO 305	International Context for Business	3
FIN 305	Principles of Finance	3
MGT 300	Behavior in Organizations: Understanding Organizational Life	3
MGT 305	Operations Management in Business	3
MGT 490	Business Policy	3
MKT 305	Principles of Marketing	3
<b>Core Credits in Business</b>		<b>24</b>
Core Courses in Accounting		
MAT 112	Applied Calculus <i>*Prerequisites: C- or better in MAT 109 or placement</i>	3
ACC 202	Accounting Lab	1
ACC 300	Intermediate Accounting I	3
ACC 301	Intermediate Accounting II	3
ACC 310	Accounting Information Systems	3
ACC 350	Management Cost Accounting I	3
ACC 400	Auditing	3
CEP 300	Cooperative Education	3
<b>OR</b>		
ACC 396	Internship: Accounting	
<b>Core Credits in Accounting</b>		<b>22</b>
<b>Additional Prerequisite Credits</b>		<b>3-6</b>
<b>TOTAL CORE CREDITS</b>		<b>79-82</b>

Accounting Track		Credits
ACC 320	Tax Planning	3
ACC elective – select one course from the following:		
ACC 330	Fraud Examination	3
ACC 420	Advanced Tax Planning	
ACC 430	Accounting for Non-Profit Institutions	
ACC 450	Management Cost Accounting II	
ENG 340	Business Writing	3
<b>OR</b>		
ENG 371	Traditional Grammar	
Global Focus elective– select one course from the following:		
ECO 340	International Economics	3
ECO 344	Comparative Economic Systems	
FIN 415	International Finance	
MGT 360	Comparative International Management	
MKT 360	International Marketing	
PSC 410	International Political Economy	
<b>TOTAL TRACK CREDITS</b>		<b>12</b>
<b>Total Core Credits</b>		<b>79-82</b>
<b>TOTAL CREDITS</b>		<b>91-94</b>

Accounting Information Systems Track		Credits
INF 110	Business Programming	3
INF 282	Introduction to Databases	3
BIS 310	Information Systems Analysis	3
BIS 380	Quantitative Analysis with Excel	3
<b>TOTAL TRACK CREDITS</b>		<b>12</b>
<b>Total Core Credits</b>		<b>79-82</b>
<b>TOTAL CREDITS</b>		<b>91-94</b>

### 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, involving 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, 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) 12 hours of core finance classes and (2) 12 hours of elective finance classes. Those 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 365: Financial Markets and Institutions," "FIN 405: Derivative Securities," "FIN 415: International Finance," "FIN 450: Advanced Investments and Security Analysis" (by application only). Those students considering careers in financial planning should consider choosing their electives from the following list: "ACC 320: Tax Planning," "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 Investments and Security Analysis" (by application only). Those students considering careers in managerial finance should consider choosing their electives from the following list: "ACC 202: Accounting Lab," (1 credit hour) "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 requirements, then the prerequisite is given in italics below the course for which it is a prerequisite, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

### Degree Requirements: B.S. – Finance with the required business administration minor

Selective Admission Courses		Credits
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics* <i>*Prerequisite: C- or better in MAT 109 Algebra for College Students or ACT ≥ 23</i>	3
ACC 200	Principles of Accounting I-Financial* <i>*Prerequisite: INF 101 Computer Literacy and Informatics</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
<b>Credits for Selective Admission</b>		<b>30</b>
College of Business Core Courses		
BIS 300	Management Information Systems	3
BUS 330	Ethics: Managerial Decision-Making	3
ECO 305	International Context for Business	3
FIN 305	Principles of Finance	3
MGT 300	Behavior in Organizations: Understanding Organizational Life	3
MGT 305	Operations Management in Business	3
MGT 490	Business Policy	3
MKT 305	Principles of Marketing	3
<b>Core Credits in Business</b>		<b>24</b>
Core Courses in Finance		
FIN 315	Financial Management	3
FIN 345	Investment and Security Analysis	3
STA 213	Statistics for Business Applications II	3
FIN 435	Case Studies in Corporate Finance	3
Four FIN courses at the 300 level or above		12
<b>Credit Hours in Major Courses</b>		<b>24</b>
<b>Additional Prerequisite Credits</b>		<b>3-6</b>
<b>TOTAL CREDITS</b>		<b>81-84</b>

### Accounting, Finance, and Business Law 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 minor requirements, then the prerequisite is given in italics below the course for which it is a prerequisite, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Accounting		Credits
ACC 200	Principles of Accounting I-Financial* <i>*Prerequisite: INF 101 Computer Literacy and Informatics</i>	3
ACC 201	Principles of Accounting II-Managerial	3
ACC 202	Accounting Lab	1
ACC 300	Intermediate Accounting I	3
ACC electives – select four courses from the following:		
ACC 301	Intermediate Accounting II	
ACC 310	Accounting Information Systems	
ACC 320	Tax Planning	
ACC 330	Fraud Examination	
ACC 350	Management Cost Accounting I	12
ACC 400	Auditing	
ACC 420	Advanced Tax Planning	
ACC 430	Accounting for Non-Profit Institutions	
ACC 450	Management Cost Accounting II	
<b>Program Credits</b>		<b>22</b>
<b>Additional Prerequisite Credits</b>		<b>3</b>
<b>TOTAL CREDITS</b>		<b>25</b>

#### 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.

Requirements for Minor: Finance		Credits
FIN 305	Principles of Finance	3
FIN 345	Investment and Security Analysis	3
Four FIN courses at the 300 level or above		12
<b>TOTAL CREDITS</b>		<b>18</b>



## Accounting, Finance, and Business Law Postbaccalaureate Certificates

Any student with a prior undergraduate degree is eligible to pursue post-baccalaureate 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 8 years.

### General Accounting Certificate

The certificate in general accounting is designed for those 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.

Requirements for Certificate: General Accounting		Credits
ACC 300	Intermediate Accounting I	3
ACC 301	Intermediate Accounting II	3
ACC 310	Accounting Information Systems	3
ACC 320	Tax Planning	3
ACC 350	Management Cost Accounting I	3
One ACC course at the 300 level or above		3
<b>TOTAL CREDITS*</b>		<b>18</b>
*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.

Requirements for Certificate: Finance		Credits
FIN 305	Principles of Finance	3
FIN 315	Financial Management	3
FIN 345	Investment and Security Analysis	3
FIN 365	Financial Markets and Institutions	3
FIN 415	International Finance	3
<b>TOTAL CREDITS*</b>		<b>15</b>
*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 Bradtmueller, Paul D. Cooper, Sean Foley, Ausbra McFarland, Daryl Orth, Lewis Edward Workman

**Undergraduate Programs:**

**Majors:**

Bachelor of Science

Career and Technical Education

Construction Management

Construction Management-Surveying

**Minor:**

Construction Management

**Associate Degree:**

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 engage in those activities as well. 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 each major, please visit the department's website.

**Special opportunities for our students:** The Department of Construction Management offers awards for outstanding undergraduates in each major. 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 (CMA) 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 Associated General Contractors of America student organizations.

## Construction Management Majors

### Bachelor of Science in Career and Technical Education

The career and technical education program is designed for four general groups of students: (1) Kentucky in-service and pre-service career and technical teachers; (2) individuals preparing for careers in corporate industrial/technical training, personnel development, or special industrial re-training programs; (3) those seeking general training careers in business and industry; and (4) pre-service and in-service secondary business education teachers. This program is not intended for individuals seeking Kentucky provisional teacher certification in technology education.

Student must complete the requirements listed here for the Bachelor of Science in Career and Technical Education.

Click here for a 4-year plan showing one way a student can complete the program below in 4 years if the student requires no remedial courses.

### Degree Requirements: B.S. – Career and Technical Education

Courses in Career and Technical Education		Credits
CTE 180	Foundations: Career/Technical Education	3
CTE 181	Instructional Systems Development	3
CTE 280	Instructional Methods: Career/Technical Education	3
CTE 281	Evaluation in Career/Technical Education	3
CTE 380	Organization and Management of Career/Technical Education	3
CTE 382	Exceptional Students in Career/Technical Education	3
CTE 487	Teaching Career/Technical Education Capstone	3
CTE 488	Problems in Career/Technical Education	4
CTE 494	Seminar: Career and Technical Education	3
EDU 300	Human Growth and Development	3
PSY 300	Personality Psychology	
Technical Component (52 hours of approved credit in area of study including 21 hours at the 300 level or above)		52
<b>TOTAL CREDITS</b>		<b>83</b>

### Bachelor of Science in Construction Management

NKU's Construction Management program is a nationally recognized program, accredited by the American Council for Construction Education (ACCE), providing 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 6 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 earn a minor in business, marketing, or entrepreneurship to complement their construction education. Graduates from the program 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 CMGT 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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

### Degree Requirements: B.S. – Construction Management

Core Courses in Construction Management		Credits
CMGT 101	Introduction to Construction Management	3
CMGT 120	Construction Materials and Methods I	3
CMGT 121	Construction Materials and Methods II	3
CMGT 220	Plane Surveying	3
CMGT 222	Architectural Drafting and CAD	3
CMGT 225	Construction Safety	3
CMGT 228	Soil and Foundation Interaction	3
CMGT 301	Cooperative Education in Construction	6

	Management (two required)	
CMGT 303	Construction Contracts, Documents and Administration	3
CMGT 305	Mechanical Systems for Construction	3
CMGT 306	Electrical Systems for Construction	3
CMGT 320	Construction Estimating	3
CMGT 322	Structural Analysis	3
CMGT 324	Construction Scheduling	3
CMGT 329	Construction Equipment	3
CMGT 415	Construction Management	3
CMGT 420	Construction Cost Control	3
CMGT 431	Capstone: Commercial and Residential	3
Select two courses from the following:		
CMGT 323	Land Planning and Development	
CMGT 399	Independent Study in Construction Management (with approval of Department Chair)	
CMGT 400	Building Codes	
CMGT 426	Heavy Construction Techniques and Analysis	
CMGT 427	Construction Law and Legal Contracts	6
CMGT 429	Civil Design	
CMGT 430	Design Build	
CMGT 383	Advanced Technical Study (with approval of Department Chair)	
CMGT 424	Capstone: Construction-Renovation and Restoration	
CMGT 494	Seminar: Construction Management	
<b>Required courses in construction management</b>		<b>57</b>
<b>Core Courses in Other Disciplines</b>		
MAT 119	Pre-Calculus Mathematics* <i>*Prerequisite: MAT 109 Algebra for College Students (for students with below a 23 in math on the ACT)</i>	3
GLY 120/ GLY 120L	This Dangerous Earth with Laboratory**	4
PHY 211	General Physics I with Laboratory**	5
BUS 330	Business Ethics	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	
<b>Core Credits in Other Disciplines</b>		<b>15</b>
<b>Required courses from business component (listed below) or entrepreneurship minor</b>		<b>18</b>
<b>Additional prerequisite credits</b>		<b>0-3</b>
<b>TOTAL CREDITS</b>		<b>90-93</b>
**Courses with double asterisks are both required and count toward general education credit.		

<b>Standard Business Component</b>		<b>Credits</b>
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	
	<b>OR</b>	3
ECO 201	Principles of Microeconomics	
MGT 205	Business Management Principles	3
ENTP 150	Overview of Accounting	3
Select two courses from the following:		
ECO 200	Macroeconomics	
	<b>OR</b>	

ECO 201	Principles of Microeconomics (NOT taken above)	
BUS 330	Ethics: Managerial Decision-Making	
FIN 305	Principles of Finance	6
HRM 300	Introduction to Labor Relations	
LDR 305	Human Relations in Organizations	
LDR 308	Leadership in Organizations	
LDR 395	Teamwork in Organizations	
MKT 305	Principles of Marketing	
Other as approved by the department chair		6
<b>TOTAL</b>		<b>18</b>

**Bachelor of Science in Construction Management – Surveying Track**

This program is a partnership degree program between Cincinnati State Technical and Community College (CSTCC) and NKU. Students pursuing this option 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 an additional 30 hours of coursework including "CMGT 301: Cooperative Education in Construction Management," "CMGT 225: Construction Safety," "CMGT 303 Construction Contracts, Documents and Administration," CMGT 320 Construction Estimating," CMGT 324 Construction Scheduling" CMGT 415 Construction Management" and "CMGT 431: Capstone: Commercial and Residential." The advanced surveying certificate at CSTCC for this degree is offered online. 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.

**Construction Management Minor**

**Minor in Construction Management**

<b>Requirements for Minor: Construction Management</b>		<b>Credits</b>
CMGT 101	Introduction to Construction Management	3
CMGT 120	Construction Materials and Methods I	3
CMGT 121	Construction Materials and Methods II	3
CMGT 222	Architectural Drafting and CAD	3
CMGT 303	Construction Contracts, Documents and Administration	3
CMGT 320	Construction Estimating	3
CMGT 324	Construction Scheduling	3
One CMGT elective course approved by advisor and not listed above		3
<b>TOTAL CREDITS</b>		<b>24</b>

**Construction Management Associate Degree**

**Associate Degree 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 degree requirements, then the prerequisite is given in italics below the course for which it is a prerequisite, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

**Degree Requirements: Associate Degree – Construction Technology**

<b>Courses in Construction Management</b>		<b>Credits</b>
CMGT 101	Introduction to Construction Management	3
CMGT 120	Construction Materials and Methods I	3
CMGT 121	Construction Materials and Methods II	3
CMGT 220	Plane Surveying	3
CMGT 222	Architectural Drafting and CAD	3
CMGT 225	Construction Safety	3
CMGT 228	Soil & Foundation Interaction	3
CMGT 301	Cooperative Education in Construction Management	3
CMGT 303	Construction Contracts, Documents and Administration	3
CMGT 305	Mechanical Systems for Construction	3
CMGT 306	Electrical Systems for Construction	3
CMGT 320	Construction Estimating	3
CMGT 324	Construction Safety	3
Two CMGT courses not listed above and as approved by advisor		6
<b>Credits in Construction Management</b>		<b>45</b>

<b>Courses in Other Disciplines</b>		
MAT 119	Pre-Calculus Mathematics* <i>*Prerequisite:: MAT 109 Algebra for College Students (for students who have below an ACT math score of 23)</i>	3
PHY 211	General Physics I with Laboratory**	5
BUS 330	Ethics: Managerial Decision Making	3
Select one course from the following**:		
MAT 128	Calculus A	3
MAT 129	Calculus I	
STA 205	Introduction to Statistical Methods	
STA 212	Statistics for Business Applications I	
<b>Credits in Other Disciplines</b>		<b>11</b>
<b>Additional Prerequisites Credits</b>		<b>0-3</b>
<b>TOTAL CREDITS</b>		<b>59</b>

\*\*Courses with double asterisks are both required and count toward general education credit.

# DEPARTMENT OF MANAGEMENT

**Location:** Business Academic Center 376

**Telephone:** 859-572-5114

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

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

**Department Chair:** Denise J. Luethge

**Other Key Personnel:**

Director, Master of Executive Leadership and Organizational Change: Ken Rhee

Director, Fifth Third Bank Entrepreneurship Institute: Eileen Weisenbach Keller

Department Coordinator: Jessica Slone

**Full-Time Faculty:** Ben Baran, Carole Cangioni, Michael Carrell, John Clarkin, Rodney D'Souza, Matthew Ford, Richard Gilson, Bertie Greer, Jeanne Holmes, Stephanie Hughes, Eileen Weisenbach Keller, Dan Kent, Denise Luethge, Lou Manchise, Michael McDermott, Stephen Mueller, Kenneth Rhee, Tracey Sigler, Rob Snyder, Sandra Spataro

**Undergraduate Programs:**

**Majors:**

Bachelor of Science

Business Administration

Entrepreneurship

Human Resources Management

Management

**Minors:**

Business Administration

Entrepreneurial Studies

Management

**Associate Degree:**

Pre-Business Studies

**Postbaccalaureate Certificate:**

Entrepreneurial Studies

**Thinking about the discipline:** Programs in our department 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.

## 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 (PACE).

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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

### Degree Requirements: B. S. – Business Administration and the required minor in Business Administration

Selective Admission Courses		Credits
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics* <i>*Prerequisite: C- or better in MAT 109 Algebra for College Students or ACT ≥ 23</i>	3
ACC 200	Principles of Accounting I-Financial* <i>*Prerequisite: INF 101 Computer Literacy and Informatics</i>	
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
<b>Credits for Selective Admission</b>		<b>30</b>
College of Business Core Courses		
BIS 300	Management Information Systems	3
BUS 330	Ethics: Managerial Decision-Making	3
ECO 305	International Context for Business	3
FIN 305	Principles of Finance	3
MGT 300	Behavior in Organizations: Understanding Organizational Life	3
MGT 305	Operations Management in Business	3
MGT 490	Business Policy	3
MKT 305	Principles of Marketing	3
<b>Credits for Business Core Courses</b>		<b>24</b>

Courses for Business Administration		
FIN 205	Personal Financial Management	3
MGT 205	Business Management Principles	
MAT 112	Applied Calculus	3
STA 213	Statistics for Business Applications II	
MAT 109	Algebra for College Students (or ACT $\geq$ 23)	3
Seven electives, 300 level or above, from AACSB-accredited business programs		21
<b>Credits for Business Administration Major</b>		<b>30</b>
<b>Additional Prerequisite Credits</b>		<b>3-6</b>
<b>TOTAL CREDITS</b>		<b>87-90</b>

### 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, an entrepreneurial mindset and 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. Through this program, 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.

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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

### Degree Requirements: B. S. – Entrepreneurship and the required minor in Business Administration

Selective Admission Courses		Credits
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics	3
<i>*Prerequisite: C- or better in MAT 109 Algebra for College Students or ACT <math>\geq</math> 23</i>		

ACC 200	Principles of Accounting I-Financial <i>*Prerequisite: INF 101 Computer Literacy and Informatics</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
<b>Credits for Selective Admission</b>		<b>30</b>
College of Business Core Courses		
BIS 300	Management Information Systems	3
BUS 330	Ethics: Managerial Decision-Making	3
ECO 305	International Context for Business	3
FIN 305	Principles of Finance	3
MGT 300	Behavior in Organizations: Understanding Organizational Life	3
MGT 305	Operations Management in Business	3
MGT 490	Business Policy	3
MKT 305	Principles of Marketing	3
<b>Credits for Business Core</b>		<b>24</b>
Entrepreneurship Major Courses		
MAT 109	Algebra for College Students (or ACT $\geq$ 23)	3
MGT 205	Business Management Principles	3
STA 213	Statistics for Business Applications II	3
MGT 240	Managerial Communication	3
MGT 394	Topics: Management	2
ENTP 300	Principles of Entrepreneurship	3
ENTP 333	New Venture Management	3
ENTP 375	Marketing Strategies for Entrepreneurial Businesses	3
ENTP 376	New Venture Financing	3
ENTP 497	Writing the Business Plan	3
Select four courses from the following:		
CMST 303	Organizational Communication	10
ECO 340	International Economics	
ENTP 378	Emerging Enterprise Law	
ENTP 379	Corporate Entrepreneurship	
ENTP 394	Topics: Entrepreneurship	
ENTP 396	Entrepreneurial Internship	
FIN 315	Financial Management	
FIN 345	Investment and Security Analysis	
FIN 365	Financial Markets and Institutions	
MGT 360	Comparative International Management	
MKT 307	Delivering and Communicating Value	
MKT 308	Integrated Marketing Communication	
MKT 310	Principles of Professional Selling	
MKT 320	Consumer Behavior	
MKT 340	Business to Business Marketing	
MKT 360	International Marketing	
SPB 305	Sports Marketing	
SPB 308	Sports Promotion Tools	
SPB 309	Sports Public Relations	
<b>Credits for Entrepreneurship Major</b>		<b>39</b>
<b>Additional Prerequisite Credits</b>		<b>3-6</b>
<b>TOTAL CREDITS</b>		<b>96-99</b>

### Bachelor of Science with a major in Human Resource Management (HRM) 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 in alignment with the Society for Human Resource Management (SHRM) 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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

### Degree Requirements: B. S. – Human Resource Management and the required minor in Business Administration

Selective Admission Courses		Credits
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics <i>*Prerequisite: C- or better in MAT 109 Algebra for College Students or ACT ≥ 23</i>	3
ACC 200	Principles of Accounting I-Financial <i>*Prerequisite: INF 101 Computer Literacy and Informatics</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
<b>Credits for Selective Admission</b>		<b>30</b>
College of Business Core Courses		
BIS 300	Management Information Systems	3
BUS 330	Ethics: Managerial Decision-Making	3
ECO 305	International Context for Business	3
FIN 305	Principles of Finance	3
MGT 300	Behavior in Organizations: Understanding Organizational Life	3
MGT 305	Operations Management in Business	3
MGT 490	Business Policy	3
MKT 305	Principles of Marketing	3
<b>Credits for Business Core</b>		<b>24</b>
Human Resource Management Major Courses		
MAT 109	Algebra for College Students (or ACT ≥ 23)	3
MGT 205	Business Management Principles	3
STA 213	Statistics for Business Applications II	3
HRM 300	Introduction to Labor 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 Resources Administration	3
MGT 394	Topics: Management	2
HRM 480	Strategic Human Resources	3
Electives		
MGT 240	Managerial Communications	3
One or two electives chosen from any 300- or 400-level course in MGT or HRM		4
<b>Credits for Human Resource Management Major</b>		<b>39</b>
<b>Additional Prerequisite Credits</b>		<b>3-6</b>
<b>TOTAL CREDITS</b>		<b>96-99</b>

### 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 long-term development as a management professional. The focus of the management program is on the knowledge base and skills that underlie effective management practice 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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

### Degree Requirements: B. S. – Management and the required minor in Business Administration

Selective Admission Courses		Credits
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics <i>*Prerequisite: C- or better in MAT 109 Algebra for College Students or ACT ≥ 23</i>	3
ACC 200	Principles of Accounting I-Financial <i>*Prerequisite: INF 101 Computer Literacy and Informatics</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
<b>Credits for Selective Admission</b>		<b>30</b>

College of Business Core Courses		
BIS 300	Management Information Systems	3
BUS 330	Ethics: Managerial Decision-Making	3
ECO 305	International Context for Business	3
FIN 305	Principles of Finance	3
MGT 300	Behavior in Organizations: Understanding Organizational Life	3
MGT 305	Operations Management in Business	3
MGT 490	Business Policy	3
MKT 305	Principles of Marketing	3
<b>Credits for Business Core</b>		<b>24</b>
Courses for Management Major		
MAT 109	Algebra for College Students (or ACT $\geq$ 23)	3
CMST 220	Interpersonal Communication	3
STA 213	Statistics for Business Applications II	3
ENG 340	Business Writing	3
ENTP 300	Principles of Entrepreneurship	3
MGT 205	Business Management Principles	3
MGT 240	Managerial Communication	3
MGT 310	Managerial Behavior	3
MGT 340	Human Resources Administration	3
MGT 394	Topics: Management	2
MGT 406	Leadership Assessment & Development II	3
Three courses chosen from any 300- or 400-level course in MGT, ENTP, HRM		7
<b>Credits for Management Major</b>		<b>39</b>
<b>Additional Prerequisite Credits</b>		<b>3-6</b>
<b>TOTAL CREDITS</b>		<b>96-99</b>

## Management Minors

### 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.

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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Business Administration		Credits
ACC 200	Principles of Accounting I-Financial <i>*Prerequisite: INF 101 Computer Literacy and Informatics and a college-level mathematics course (MAT or STA)</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BIS 300	Management Information Systems	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
FIN 305	Principles of Finance <i>*Prerequisite: STA 212: Statistics for Business Applications I</i>	3
*MGT 305	Operations Management in Business <i>*Prerequisite: MAT 114: Finite Mathematics and STA 212: Statistics for Business Applications</i>	3
MKT 305	Principles of Marketing	3
<b>Program Credits</b>		<b>27</b>

Additional Prerequisite Credits		9
<b>TOTAL CREDITS</b>		<b>36</b>

### 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 of the minor 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		Credits
ENTP 150	Overview of Accounting <b>OR</b>	3 or 6
ACC 200	Principles of Accounting I-Financial and ACC 201 Principles of Accounting II-Managerial	
ENTP 300	Principles of Entrepreneurship	3
ENTP 380	Enterprise Creation	3
Three ENTP electives		9
<b>TOTAL CREDITS</b>		<b>18 or 21</b>

### Minor in Management

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 in the minor 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.

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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Management		Credits
CMST 220	Interpersonal Communications <i>*Prerequisite: CMST 101 Public Speaking</i>	3
MGT 205	Business Management Principles	3
MGT 300	Behavior in Organizations: Understanding Organizational Life	3
MGT 310	Managerial Behavior	3
MGT 340	Human Resources Administration	3
Select two electives from 300- and 400-level MGT classes		6
<b>Program Credits</b>		<b>21</b>
<b>Additional Prerequisite Credits</b>		<b>3</b>
<b>TOTAL CREDITS</b>		<b>24</b>



## Management Associate Degree

### Associate Degree in Pre-Business Studies

The associate degree program is designed to provide a consistency between this two-year degree program and the preparation students require to pursue any of the business bachelor's degree curricula in the Haile/U.S. Bank College of Business. Students must fulfill the associate degree general studies components and complete a minimum of 60 semester hours of coursework outlined below. The Associate Degree in Pre-Business Studies is also available through the Program for Adult Centered Education (PACE).

If a particular course has a prerequisite that is not listed as part of the degree requirements, then the prerequisite is given in italics below the course for which it is a prerequisite, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

### Degree Requirements: Associate Degree – Pre-Business Studies

Core Requirements		Credits
INF 101	Computer Literacy and Informatics	3
MAT 109	Algebra for College Students (or ACT $\geq$ 23) <i>*Prerequisite: C- or better in MAHD 099 or placement</i>	3
ACC 200	Principles of Accounting I-Financial <i>*Prerequisite: INF 101 Computer Literacy and Informatics</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
MGT 205	Business Management Principles	3
<b>Core Credits</b>		<b>24</b>
General Education Requirements		
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics	3
ENG 291	Advanced College Writing	3
One course in Culture & Creativity or Global Viewpoints		3
One course in the Natural Sciences		3
<b>Credits in General Education</b>		<b>18</b>
Electives		
Select electives that fit into the bachelor's degree requirements for business majors.		18
<b>Elective Credits</b>		<b>18</b>
<b>Additional Prerequisite Credits</b>		<b>3</b>
<b>TOTAL CREDITS</b>		<b>63</b>

## Management Postbaccalaureate Certificate

### Postbaccalaureate Certificate in Entrepreneurial Studies

Any student with a prior undergraduate degree is eligible to pursue post-baccalaureate 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 8 years.

For more information about the online postbaccalaureate certificate, contact Educational Outreach.

Requirements for Postbaccalaureate Certificate: Entrepreneurial Studies		Credits
ENTP 150	Overview of Accounting <b>OR</b>	3 or 6
ACC 200	Principles of Accounting I-Financial and Principles of Accounting II-Managerial	
ACC 201		
ENTP 300	Principles of Entrepreneurship	3
ENTP 333	New Venture Management	3
ENTP 378	Emerging Enterprise Law	3
ENTP 497	Writing the Business Plan	3
<b>TOTAL CREDITS</b>		<b>15 or 18</b>

## DEPARTMENT OF MARKETING, ECONOMICS, AND SPORTS BUSINESS

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**Location:** Business Academic Center 314

**Telephone:** 859-572-6582

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

**Web Address:** <http://mesb.nku.edu/>

**Department Chair:** Doris Shaw

**Other Key Personnel:**

Director, Center for Economic Education: Nancy Lang

Director, Sports Business Program: Tom Gamble

Director, Marketing Research Partnership Program: Aron Levin

Department Coordinator: Donna Russell

**Full-Time Faculty:** Thomas Cate, Gary Clayton, Joe Cobbs, Linda Dynan, Tom Gamble, 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

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 sport, particularly professional sport, 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 being 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 (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. 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 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 ten courses (30 credit hours) plus two additional ECO elective courses (6 credit hours). The program provides up to 33 credit hours at the 300 and 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.

**Degree Requirements: B.S. – Economics**

Courses		Credits
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
STA 205	Introduction to Statistical Methods	3
STA 212	Statistics for Business Applications I	
ECO 300	Intermediate Macroeconomics	3
ECO 301	Intermediate Microeconomics	3
ECO 310	Introduction to Econometrics	3
ECO 305	International Context for Business	3
Two ECO elective courses at the 300 level or above		6
STA 314	Design and Analysis of Experiments	3
STA 316	Regression Analysis	3
ECO 494	Seminar in Economics	3
<b>TOTAL CREDITS</b>		<b>36</b>

**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.

All marketing majors must choose a specialization track at the time of completing the selective admission certification course group for admission into the marketing major (usually no later than the fifth semester). For a 4-year graduation plan, the program of study for all specialization tracks is the same for the first 3 years (six semesters) of study, so specialization tracks can easily be changed prior to the beginning of the seventh semester. Specialization tracks are: comprehensive marketing, marketing research, marketing communications, and consumer and product marketing. The comprehensive marketing specialization offers the most flexibility in course choice, while the other three specialization tracks have course requirements focused on the broad career path targeted by each. All students are strongly encouraged to discuss their career goals with marketing faculty for guidance in choosing the appropriate specialization.

**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 four specializations: (1) comprehensive marketing, (2) marketing research, (3) marketing communications, or (4) consumer and product marketing.

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, and it is marked with an asterisk (\*). These prerequisites 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
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics* <i>*Prerequisite: C- or better in MAT 109 Algebra for College Students or ACT &gt;23</i>	3

ACC 200	Principles of Accounting I-Financial* <i>*Prerequisite: INF 101 Computer Literacy and Informatics</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
<b>Credits for Selective Admission</b>		<b>30</b>
<b>College of Business Core Courses</b>		
BIS 300	Management Information Systems	3
BUS 330	Ethics: Managerial Decision-Making	3
ECO 305	International Context for Business	3
FIN 305	Principles of Finance	3
MGT 300	Behavior in Organizations: Understanding Organizational Life	3
MGT 305	Operations Management in Business	3
MGT 490	Business Policy	3
MKT 305	Principles of Marketing	3
<b>Core Credits in Business</b>		<b>24</b>
<b>Core Courses for Marketing Program</b>		
PSY 100	Introduction to Psychology	3
SOC 100	Introduction to Sociology	3
STA 213	Statistics for Business Applications II	3
ENG 340	Business Writing	3
MKT 320	Consumer Behavior	3
MKT 392	Consumer Insights	3
MKT 333	Global and Cultural Issues in Marketing	3
MKT 480	Strategic Decision Making in Marketing	3
<b>Core Credits in Marketing</b>		<b>24</b>
<b>Additional Prerequisite Credits</b>		<b>3-6</b>
<b>TOTAL CORE CREDITS</b>		<b>81-84</b>

<b>Comprehensive Marketing Specialization Track</b>		<b>Credits</b>
Five MKT elective courses at the 300 level or above		15
Quantitative/Electronic elective – select one course from the following:		
BIS 330	IT Project Management	3
BIS 380	Quantitative Analysis with Excel	
ECO 310	Introduction to Econometrics	
INF 282	Introduction to Databases	
MGT 306	Project Management	
STA 360	Statistical Computing or other as approved by department	
General elective –select one course from the following:		
CMST 303	Organizational Communication	3
CMST 340	Strategies of Persuasion	
CMST 355	Cross-Cultural Communication	
EMB 313	Media Sales, Advertising, and Promotion	
ENTP 300	Principles of Entrepreneurship	
PSY 340	Social Psychology or other as approved by department	
<b>TOTAL SPECIALIZATION CREDITS</b>		<b>21</b>
<b>Total Core Credits</b>		<b>81-84</b>
<b>TOTAL CREDITS</b>		<b>102-105</b>

<b>Marketing Research Specialization Track</b>		<b>Credits</b>
BIS 330	IT Project Management	3
MKT 492	Advanced Marketing Research	3
Two MKT elective courses at the 300 level or above		6
Quantitative/Electronic electives – select two courses from the following:		
INF 282	Introduction to Databases	6
BIS 380	Quantitative Analysis with Excel	
STA 360	Statistical Computing	
ECO 310	Introduction to Econometrics	
or other as approved by department		
General elective – select one course from the following:		
CMST 303	Organizational Communication	3
SOC 320	Social Research	
PSY 340	Social Psychology	
or other as approved by department		
<b>TOTAL SPECIALIZATION CREDITS</b>		<b>21</b>
<b>Total Core Credits</b>		<b>81-84</b>
<b>TOTAL CREDITS</b>		<b>102-105</b>

<b>Marketing Communications Specialization Track</b>		<b>Credits</b>
MKT 308	Integrated Marketing Communication	3
MKT 310	Principles of Professional Selling	3
Three MKT elective courses at the 300 level or above		9
Quantitative/Electronic elective – select one course from the following:		
BIS 330	IT Project Management	3
BIS 380	Quantitative Analysis with Excel	
ECO 310	Introduction to Econometrics	
INF 282	Introduction to Databases	
MGT 306	Project Management	
STA 360	Statistical Computing	
or other as approved by department		
General elective – select one course from the following:		
CMST 303	Organizational Communication	3
CMST 340	Strategies of Persuasion	
CMST 355	Cross-Cultural Communication	
CMST 430	Communication Theories	
CMST 440	Communication Training and Development	
MB 313	Media Sales, Advertising, and Promotion	
PSY 340	Social Psychology	
or other as approved by department		
<b>TOTAL SPECIALIZATION CREDITS</b>		<b>21</b>
<b>Total Core Credits</b>		<b>81-84</b>
<b>TOTAL CREDITS</b>		<b>102-105</b>

<b>Consumer and Product Marketing Specialization Track</b>		<b>Credits</b>
MKT 350	Creating Value Through Product and Price	3
MKT 307	Delivering and Communicating Value	3
Three MKT elective courses at the 300 level or above		9
Quantitative/Electronic elective – select one course from the following:		
BIS 330	IT Project Management	3
BIS 380	Quantitative Analysis with Excel	
ECO 310	Introduction to Econometrics	
INF 282	Introduction to Databases	
MGT 306	Project Management	
STA 360	Statistical Computing	
Other as approved by department		

General elective – select one course from the following:		
CMST 303	Organizational Communication	3
CMST 340	Strategies of Persuasion	
CMST 355	Cross-Cultural Communication	
EMB 313	Media Sales, Advertising, and Promotion	
ENTP 300	Principles of Entrepreneurship	
PSY 340	Social Psychology	
WGS 383	Women and World Cultures	
or other as approved by department		
<b>TOTAL SPECIALIZATION CREDITS</b>		
<b>Total Core Credits</b>		<b>81-84</b>
<b>TOTAL CREDITS</b>		<b>102-105</b>

### 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 new U.S. Women's Professional Soccer league? Who decided that M&M's would be Kyle Busch's NASCAR sponsor? What is the answer to all these questions? People 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 and recreational 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. 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 ten courses (30 credit hours). Students then choose an additional 6 credits from either an elective course and internship option or a two semester Signature Sports Event management sequence. The elective/internship option allows students to select an additional sports business course in an area of interest and use an internship 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 businessperson.

The Signature Sports Event experience is a two-semester, experiential course sequence (SPB 496 in fall; SPB 497 in spring) that gives selected students the opportunity to plan and lead the execution of a significant sports event with a regional market, guided by expert faculty and professional mentors. This signature event of the NKU sports business program provides an opportunity for students to integrate all facets of their sports business knowledge into a unique, hands-on learning and networking experience.

**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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

### Degree Requirements: B. S. – Sports Business and the required minor in Business Administration

Selective Admission Courses		Credits
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics* <i>*Prerequisite: C- or better in MAT 109 Algebra for College Students or ACT ≥ 23</i>	3
ACC 200	Principles of Accounting I-Financial* <i>*Prerequisite: INF 101 Computer Literacy and Informatics</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
<b>Credits for Selective Admission</b>		<b>30</b>
College of Business Core Courses		
BIS 300	Management Information Systems	3
BUS 330	Ethics: Managerial Decision-Making	3
ECO 305	International Context for Business	3
FIN 305	Principles of Finance	3
MGT 300	Behavior in Organizations: Understanding Organizational Life	3
MGT 305	Operations Management in Business	3
MGT 490	Business Policy	3
MKT 305	Principles of Marketing	3
<b>Credits for Business Core</b>		<b>24</b>
Courses for Sports Business Major		
STA 213	Statistics for Business Applications II	3
CMST 303	Organizational Communication	3
CMST 370	Advanced Public Speaking	3
MKT 308	Integrated Marketing Communication	3
MKT 310	Principles of Professional Selling	3
MKT 320	Consumer Behavior	3
One SPB elective course at the 300 level or above		3
SPB 305	Sports Marketing	3
SPB 308	Sports Promotion Tools	3
SPB 309	Sports Public Relations	3
SPB 480	Sports Business Strategies and Policies	3
SPB 396	Internship: Sports Business	3
<b>OR</b>		
SPB 497	Signature Sports Event II	3
<b>Credits for Sports Business</b>		<b>36</b>
<b>Additional Prerequisite Credits</b>		<b>3-6</b>
<b>TOTAL CREDITS</b>		<b>93-96</b>

### 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 minor requirements, then the prerequisite is given in italics below the course for which it is a prerequisite, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for the Minor: Economics		Credits
ECO 200	Principles of Macroeconomics* <i>*Prerequisite: College-level mathematics course (MAT or STA)</i>	3
ECO 201	Principles of Microeconomics	3
Six ECO courses at the 300 level or above		18
		<b>Program Credits 24</b>
		<b>Additional Prerequisite Credits 3</b>
		<b>TOTAL CREDITS 27</b>

#### 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.

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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for the Minor: Marketing		Credits
MGT 205	Business Management Principles	3
MKT 305	Principles of Marketing	3
MKT 320	Consumer Behavior	3
Select four courses from the following:		
Any 300-level MKT course		
SPB 305	Sports Marketing	
SPB 308	Sports Promotion Tools	
or other as approved by department		12
<b>TOTAL CREDITS</b>		<b>21</b>

### 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, sponsorships, 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 minor requirements, then the prerequisite is given in italics below the course for which it is a prerequisite, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for the Minor: Sports Business		Credits
MKT 305	Principles of Marketing* <i>*Prerequisite: ≥ 60 credit hours</i>	3
SPB 305	Sports Marketing	3
SPB 308	Sports Promotion Tools	3
SPB 309	Sports Public Relations	3
Select three courses from the following:		
MKT 308	Integrated Marketing Communication	
MKT 310	Principles of Professional Selling	
MKT 335	Event Planning and Management	
SPB 330	Sports Legal Environment	
SPB 340	Sports Tourism Marketing	
	or other as approved by department	
		9
<b>TOTAL CREDITS</b>		<b>21</b>

### 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 a 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 may need to complete additional preparatory courses. All coursework must be taken for a letter grade and must be completed within 8 years.

If a particular course has a prerequisite that is not listed as part of the certificate requirements, then the prerequisite is given in italics below the course for which it is a prerequisite, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for Postbaccalaureate Certificate: Applied Economics and Public Policy		Credits
ECO 200	Principles of Macroeconomics* <i>*Prerequisite: College-level mathematics course (MAT or STA)</i>	3
ECO 201	Principles of Microeconomics	3
ECO 301	Intermediate Microeconomics	3
ECO 330	Urban and Regional Economics	3
ECO 342	Economic Development	3
ECO 394	Topics in Economics	3
ECO 494	Seminar in Economics	3
<b>Program Credits</b>		<b>21</b>
<b>Additional Prerequisite Credits</b>		<b>3</b>
<b>TOTAL CREDITS</b>		<b>24</b>

#### 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 8 years.

If a particular course has a prerequisite that is not listed as part of the certificate requirements, then the prerequisite is given in italics below the course for which it is a prerequisite, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for Postbaccalaureate Certificate: Marketing Research		Credits
STA 212	Statistics for Business Applications I	3
STA 213	Statistics for Business Applications II	3
ENG 340	Business Writing* <i>*Prerequisite: ENG 291 or equivalent</i>	3
MKT 305	Principles of Marketing	3
MKT 320	Consumer Behavior	3
MKT 392	Consumer Insights	3
MKT 492	Advanced Marketing Research	3
<b>Program Credits</b>		<b>21</b>
<b>Additional Prerequisite Credits</b>		<b>3</b>
<b>TOTAL CREDITS</b>		<b>24</b>

#### 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		Credits
MKT 305	Principles of Marketing	3
SPB 305	Sports Marketing	3
SPB 308	Sports Promotion Tools	3
SPB 330	Sports Legal Environment	3
SPB 480	Sports Business Strategies and Policies	3
<b>TOTAL CREDITS</b>		<b>15</b>

# COLLEGE OF EDUCATION AND HUMAN SERVICES

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**Location:** Mathematics Education Psychology Center 206

**Telephone:** 859-572-6069

**Fax:** 859-572-6623

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

**Web Address:** <http://coehs.nku.edu>

**Dean:** Mark Wasicsko

**Other Key Personnel:**

Associate Dean: Carol Ryan

Business Officer: Carole Ziegler

Administrative Secretary: Amy Sand

Welcome to the College of Education and Human Services. Our 3 departments, 14 undergraduate and graduate program areas, and Doctor of Education constitute extraordinarily diverse pathways for our students to achieve their educational goals while preparing for careers in the human services areas.

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 the globe.

The College of Education and Human Services is an outstanding place for students, faculty, staff, alumni, and community partners to learn, teach, work, and play 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.

## College Advising Center

**Location:** Mathematics Education Psychology Center 230

**Telephone:** 859-572-6944

**Web Address:** <http://coehs.nku.edu/advising>

**Advisors:**

Josh Brittingham

Gail DeMoss

Patsy Fisk

Deborah Henry

Dixie Leather

Jill Niemeyer

Christy Swanson

**Staff:**

Sherry Kinsella

Mary McGrath

Geneva Morris

Shirley Raleigh

Advisors in the COEHS Advising Center provide assistance and academic advising to students majoring in one of the college's undergraduate programs. The center also houses the coordinator of the admissions practicum and the coordinator of student teaching for the teacher education programs. Students should contact the advising center to schedule appointments with advisors or for information on any undergraduate program housed in the college.

## 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 social work programs are accredited by the Council on Social Work Education.

The education/school counseling/instructional leadership programs are accredited by the National Council for Accreditation of Teacher Education.

## Centers

### Center for Environmental Education

**Location:** Mathematics Education Psychology Center 160

**Telephone:** 859-572-1545

**Fax:** 859-572-6096

**Email Address:** [enved@nku.edu](mailto:enved@nku.edu)

**Web Address:** <http://enved.nku.edu/>

**Director:** Steve Kerlin

**Program Assistant:** Ed Wilcox

The Center for Environmental Education provides instructional training, resources, and programs for environmental educators, schools, and the community. Undergraduate students have opportunities to be involved with the center as work-study students or volunteers focusing on programs and research. A vast amount of instructional resources is available for students to use with course projects, pre-service teaching, and community programs.

### Institute for Talent Development and Gifted Studies

**Telephone:** 859-572-5600

**Email Address:** [gifted@nku.edu](mailto:gifted@nku.edu)

**Web Address:** <http://gifted.nku.edu>

**Director:** Kimberly Code

The Institute for Talent Development and Gifted Studies serves as a vehicle for the university to meet the need for gifted and talented education in the local region and beyond. It does this by providing undergraduate pre-service teachers with paid internships on campus; training current teachers to meet the needs of gifted and talented students through the graduate gifted and talented education endorsement program; and conducting innovative research on effective pedagogical practices.

### Training and Development Center

**Telephone:** 859-360-7728

**Email Address:** [nkrmhc@nku.edu](mailto:nkrmhc@nku.edu)

**Web Address:**

[http://education.nku.edu/departments/counseling/Training\\_Clinic.php](http://education.nku.edu/departments/counseling/Training_Clinic.php)

**Director:** David Wilkerson

The Training and Development Center (TDC) 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.

# DEPARTMENT OF COUNSELING, SOCIAL WORK, AND LEADERSHIP

**Location:** Mathematics Education Psychology Center 203

**Telephone:** 859-572-5604

**Fax:** 859-572-6592

**Email Addresses:**

HumanServices@nku.edu  
 SchoolCounseling@nku.edu  
 MentalHealthCounseling@nku.edu  
 InstructionalLeadership@nku.edu  
 MSW@nku.edu

**Web Address:** <http://coehs.nku.edu/departments/counseling/>

**Department Chair:** Verl Pope

**Other Key Personnel:**

Director of Counseling and Human Services: Jacqueline Smith  
 Director of Bachelor of Social Work: Caroline Macke  
 Director of Masters of Social Work: Holly Riffe  
 Director of School Counseling: Brett Zyromski  
 Director of Mental Health Counseling: Kerry Sebera  
 Director of Instructional Leadership: Rosa Weaver  
 Director of Ed.D.: Paul Wirtz  
 Administrative Coordinator: Kimberly Wiley  
 Administrative Specialist: Michelle Dingler

**Full-Time Faculty:** James Allen, Michael Altekruise, Susan Cook, Willie Elliott, Nancy Erwin, Dana Harley, Greg Hatchett, Vanessa Hunn, James Koschoreck, Christopher Lawrence, Caroline Macke, Tara McLendon, Holly Riffe, Mary Rozier, Kerry Sebera, Jennifer Sharp, Jacqueline Smith, Karen Tapp, Jessica Averitt-Taylor, Rosa Weaver, Linda Wermeling, Paul Wirtz, Brett Zyromski

**Undergraduate Programs:**

**Majors:**

Counseling and Human Services (Bachelor of Science)  
 Social Work (Bachelor of Social Work) (Council on Social Work Education accredited)

**Minors:**

Counseling and Human Services  
 Social Justice Studies (see interdisciplinary section of catalog)

**Area of Concentration:**

Social Work

## Counseling and Human Services Major

**Thinking about the discipline:** The counseling and human services program provides students with the knowledge and skills necessary to work in the growing and varied field of human services. The counseling and human services program places an emphasis on applied learning through required fieldwork placements in community settings. Because of this emphasis, benefits are numerous and result in important professional connections as well as developing the students' sense of professional identity.

Students are exposed to classroom instruction and field experiences that prepare them for positions in work settings such as mental health agencies, rehabilitation facilities, residential treatment programs, group homes, half-way houses, therapeutic recreation, daycare centers, after-school programs, substance abuse programs, and a variety of programs serving the elderly. In addition to required core courses, students are offered an assortment of elective courses that are consistent with their specific areas of interest. Counseling and human service program graduates are also prepared for entrance into a master's degree program in counseling and other related fields.

"Human services worker" is a generic term for people who hold professional and paraprofessional positions in social services agencies. The bachelor's

degree program in counseling and human services is uniquely designed to prepare graduates to assist 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 graduating with a Bachelor of Science in Counseling and Human Services are equipped to work in many different service settings integrating and coordinating the efforts of specialized professionals. These settings include programs serving the developmentally challenged; community mental health centers; family, child, and youth service agencies; drug and alcohol treatment centers; rehabilitation settings; and agencies serving the elderly population.

**Special opportunities for our students:** Students are encouraged to join the Counseling and Human Services Student Organization to begin establishing a social and professional network within the human services field. The Counseling and Human Services Student Organization 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 counseling and human services webpage.

- HSR students have scholarship opportunities for the major
- HSR majors are encouraged to become a College of Education and Human Services (COEHS) 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. More information is available here (<http://coehs.nku.edu/advising/organizations/ambassadors.php>).

**Special admission requirements:** Field admission is selective. 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 practica or field experience course.

**Special graduation requirements:** Students must successfully complete all required counseling and human services courses and have a minimum GPA of 2.5 to graduate with a Bachelor of Science in Counseling and Human Services.

**You should also know:** The counseling and human services major is available in an evening, nontraditional format for adult learners through NKU's Program for Adult Centered Education (PACE). The PACE curriculum schedule is available on the web.

### Bachelor of Science with a major in Counseling and Human Services

Core Courses in Counseling and Human Services		Credits
HSR 100	Orientation to Human Services	3
HSR 102	Practicum in Human Services	4
HSR 103	Practicum Seminar I	2
HSR 105	Counseling for Human Services Professions	3
HSR 216	Group Theories and Practice	3
HSR 300	Contemporary Issues: Mental Health	3
HSR 303	Multicultural Issues in Human Services	3
HSR 312	Crisis Intervention	3
HSR 304	Field Experience in Mental Health	4
HSR 305	Assessment and Appraisal: Mental Health	3
HSR 404	Field Experience: Mental Health II	4
HSR 412	Leadership Skills for Small Groups	3
HSR 416	Mental Health Counseling: Principles and Practice	3



HSR 430	Human Services Administration	3
BIO 125	Biological Perspective of Wellness	3
SOC 100	Introduction to Sociology	3
PSY 100	Introduction to Psychology	3
Select two courses from the following:		
HSR 110	Activities Therapy	6
HSR 306	Introduction to Gerontology	
HSR 314	Death, Dying, and Grief	
HSR 326	Behavior Problems of Children	
HSR 340	Alcoholism: Issues and Intervention	
HSR 450	Alcoholism: The Dysfunctional Family	
HSR 500	Multicultural Family Work	
HSR 502	Positive Guidance Strategies for Early Childhood Practitioners	
<b>TOTAL CREDITS</b>		<b>59</b>

### Counseling and Human Services Minor

The minor in counseling and human services is appropriate for students majoring in the behavioral, social, or health services. The minor requires successful completion of "HSR 100: Orientation to Mental Health/Human Services" and 18 additional semester hours of HSR courses including 6 credits in courses numbered 300 and above. Students may choose as part of their counseling and human services course requirements a practicum course and accompanying seminar involving supervised on-the-job work experience in a services delivery agency. For more information on the practicum/seminar courses please reference the College of Education and Human Services website: <http://coehs.nku.edu>.

### 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 at NKU 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 providing B.S.W. graduates the eligibility to test for state licensure. It also enables students to pursue advanced standing status in a Masters of Social Work (M.S.W.) 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). PCWCP is a selective admission, pre-employment opportunity for social work majors that pays in-state tuition for the last 3 or 4 semesters and per-semester stipend benefits. PCWCP is a statewide collaboration among the Kentucky Cabinet for Health and Family Services and

seven 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 in the area of protection and permanency within six months of certification for two years at a higher rate of salary.

- 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. For further information about the social work club, visit the social work web page.
- Membership in Phi Alpha Honor Society demonstrates leadership among peers. The Phi Alpha Honor 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 Honor Society is available here (<http://education.nku.edu/departments/counseling/socialwork/phialpha.php>).
- 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 Honor Society as well as local agency events, projects, and job opportunities within the field. Subscribe to the listserv here (<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 here (<http://education.nku.edu/advising/organizations/ambassadors.php>).

**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 are as follows

1. Declare social work as a major.
2. Have a minimum overall GPA of 2.50.
3. Complete the following courses with a grade of C or higher (students may submit an application in the semester that they are enrolled into the last of these required courses):
  - "SWK 105: Introduction to Social Work"
  - "SWK 203: Social Welfare in Contemporary Society"
  - "CMST 101: Public Speaking"
  - "BIO 123: Human Ecology," "BIO 125: Biological Perspective of Wellness," or "BIO126: Human Nutrition"
  - 3 credits of economics
  - 3 credits of sociology
  - 3 credits of psychology
  - 3 credits of ethics
  - 3 credits of political science
  - 3 credits of statistics
4. 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 meeting in their acceptance letter.

**Special graduation requirements:** Students may be removed from the social work program based on the following:

- Academic performance below the acceptable level of an overall GPA of at least 2.50 or less than the grade of *C* in any social work or supportive required courses.
- 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 (NASW) 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 406: Field Instruction I" and "SWK 408: Field Instruction II." These courses are offered consecutively in 8-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.

### Degree Requirements: B.S.W.

Courses	Credits
SWK 105 Introduction to Social Work	3
SWK 203 Social Welfare in Contemporary Society	3
Select one course from the following:	
BIO 123 Human Ecology	3
BIO 125 Biological Perspective of Wellness	
BIO 126 Human Nutrition	
Three hours of economics	3
Three hours of sociology	3
CMST 101 Public Speaking	3
Three hours of psychology	3
Three hours of ethics	3
Three hours of political science	3
Three hours of statistics	3
SWK 303 Professional Interactional Skills (3)	3
SWK 304 Human Behavior and Social Environment	3
SWK 305 Social Work Practice I	3
SWK 307 Human Behavior and Social Environment II	3
SWK 308 Social Work Research	3
SWK 310 Social Work Practice II: Family and Group	5
SWK 405 Social Work Practice: Community Organization	3
SWK 406 Field Instruction I	5
SWK 407 Social Welfare Policy	3
SWK 408 Field Instruction II	5
Select 9 credits from the following:	
SWK 106 Introduction to Social Justice	
SWK 394 Topics: Social Welfare	
SWK 411 Social Work and the Law	
SWK 515 Introduction to Child Maltreatment (PCWCP required)	
SWK 516 Child Welfare II: Interventions (PCWCP required)	
SWK 450 Multicultural Issues	
SWK 455 Multicultural Family Experiences	
SWK 499 Independent Study	9
SWK 510 Child Abuse	
SWK 520 Services to Women	
SWK 525 Substance Use and Abuse	
SWK 540 Women and Violence	
SWK 545 Mediation in Social Welfare	
SWK 565 Compassion, Empathy, and Forgiveness in Social Justice	
SWK 594 Topics: Issues in Social Welfare	
<b>TOTAL CREDITS</b>	<b>75</b>

### Social Work Concentration

Requirements for Concentration: Social Work	Credits
Select 12 credits from the following:	
SWK 411 Social Work and the Law: Part I	
SWK 510 Child Abuse	
SWK 515 Introduction to Child Maltreatment	
SWK 516 Child Welfare II: Interventions	
SWK 520 Services to Women	12
SWK 525 Substance Use and Abuse	
SWK 565 Compassion, Empathy, and Forgiveness in Social Justice	
SWK 594 Topics: Issues in Social Welfare	
<b>TOTAL CREDITS</b>	<b>12</b>

# DEPARTMENT OF KINESIOLOGY AND HEALTH

**Location:** Albright Health Center 105

**Telephone:** 859-572-6557

**Fax:** 859-572-6090

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

**Web Address:** <http://coehs.nku.edu/departments/kinesiology.php>

**Department Chair:** Carol Ryan

**Other Key Personnel:**

Athletic Training Program Director: Trey Morgan

Department Coordinator: Lisa Schultz

**Full-Time Faculty:** Matthew Asare, Gary Eippert, Mary Kirk, Alar Lipping, Trey Morgan, Will Peveler, Carol Ryan, Gabe Sanders, Rachele Vogelpohl

**Undergraduate Programs:**

**Majors:**

Bachelor of Science

Exercise Science, Member of the American Kinesiology Association  
Athletic Training, Accredited by the Commission on Accreditation of  
Athletic Training Education

Bachelor of Arts

Physical Education, Accredited by the National Council for Accredita-  
tion of Teacher Education

**Minors:**

Health Education, Accredited by the National Council for Accreditation of  
Teacher Education

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 physiology, 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, 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 movement to improve health across the lifespan continues.

**Special opportunities for our students:** Students are encouraged to join the department's Kinesiology Club and the Athletic Training Club, whose goals are to promote an appreciation of, a commitment to involvement in, and responsibility to the fields of athletic training, exercise science, and physical education/health by attending workshops, conferences, conventions, seminars, and institutions; providing 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.

Students majoring in one of the education disciplines (for example, physical education) must apply for admission to the teacher education program. There is a two-step process that is described in detail in the teacher education section of the catalog.

## 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 biophysical context, including aspects of anatomy, physiology, chemistry, physics, biology, and nutrition. The major prepares them for an exercise science internship (KIN 496), or a research-directed senior synthesis (KIN 497).

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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

#### Degree Requirements: B.S. – Exercise Science

Courses in Kinesiology and Health		Credits
HEA 135	Safety and First Aid	3
KIN 125	Introduction to Physical Education, Fitness, and Sport	3
KIN 200	Concepts of Lifetime Fitness	2
KIN 260	Introduction to Strength and Conditioning	3
KIN 261	Computer Applications for Health and Kinesiology	2
KIN 280	Introduction to Athletic Training	3
KIN 295	Anatomical Kinesiology	3
KIN 320	Motor Learning and Performance * <i>Prerequisite: BIO 208/208L Human Anatomy and Physiology I with Laboratory</i>	3
KIN 330	Motor Development	3
KIN 340	Exercise Physiology	4
KIN 349	Exercise Prescription	4
KIN 360	Statistics and Measurement in Kinesiology * <i>Prerequisite: MAHD 099 Intermediate Algebra or acceptable placement score</i>	3
KIN 365	Exercise Prescription and Programming for Special Populations	3
KIN 370	Biomechanics	3
KIN 380	Clinical Exercise Physiology	3
KIN 492	Practicum in Exercise Science	3
KIN 498	Research, Trends, Issues in Exercise Science	2
KIN 496	Internship in Exercise Science	9
KIN 497	OR Exercise Science Senior Synthesis (3 credit hours) in lieu of KIN 496 Internship in Exercise Science AND 6 credit hours from KH department that are 300 level or above.	
300 level or above of KIN, PHE, HEA, or ATP courses with KH department approval		6
<b>Credits in Kinesiology and Health</b>		<b>65</b>

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* <i>Prerequisite: High school chemistry and minimum score of 19 on ACT math section or equivalent; or C- or better in CHE 102 Introduction to Chemistry</i>	4
PHY 110	Introduction to Physics with Laboratory* <i>Prerequisite: AHD 099 Intermediate Algebra or equivalent</i>	4
<b>Credits in Other Disciplines</b>		<b>19</b>
<b>Additional Prerequisite Credits</b>		<b>4-7</b>
<b>TOTAL CREDITS</b>		<b>88-91</b>

## 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 athletic training education program (ATEP) is to offer a program of excellence that will produce well rounded and competent entry-level athletic trainers. The program is designed to provide highly qualified Board Certified Athletic Trainers for positions in orthopedic rehabilitation centers, wellness/fitness centers, high schools, college programs, and professional teams. Since 2006, NKU's athletic training education program has been accredited by the Commission on Accreditation of Athletic Training Education (CAATE). 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 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 Public Safety. (Allow a minimum of 6 to 8 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 seven 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 200 Medical History and Documentation (1 credit)

- ATP 201 Goniometry, Range of Motion, and Manual Muscle Testing (1 credit)
- ATP 280 Pre-Athletic Training (2 credits)
- PSY 100 Introduction to Psychology (3 credits)
- BIO 126 Human Nutrition (3 credits)
- HEA 135 Safety and First Aid (3 credits)
- KIN 280 Introduction to Athletic Training (3 credits)
- BIO 208/208L Human Anatomy and Physiology I with Laboratory (4 credits)

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 at 859-572-1399.

### Step 2: Formal application

Formal program application and admission occur during the fall semester as part of "ATP 280 Pre-Athletic Training." To be eligible for formal application, the student must attain at least sophomore standing (30 credit hours) and satisfactorily complete the pre-professional stage. The ATEP application deadline is October 31.

The application must include a typed (one page, double spaced, font size 10) written sample addressing the following: "What do you believe is the most important attribute of an athletic trainer as an allied health care provider, and what attributes do you possess that will allow you to fulfill the role of an athletic trainer?" 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 to provide the student with an overall score used 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 afforded 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 mental and physical 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 (BOC) Role Delineation Study. A student must meet the requirements for admission, retention, and graduation.

Transfer students should contact the ATEP director at 859-572-1399 for details regarding course transfer and program admission eligibility.

### **You should also know:**

- Students are required to purchase uniforms and name tags as designated by the ATEP faculty. This uniform is required for all clinical assignments.

- 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 include the following:
  - Professional liability insurance: \$14 assessed for ATP 296, ATP 394, and ATP 494.
  - Laboratory fee: \$40 assessed for ATP 280 and ATP 296.
  - National Athletic Trainers' Association professional membership: \$80 assessed for ATP 296, ATP 394, and ATP 494.
- 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.
- Hepatitis B vaccination is required for ATEP admission. The student is responsible for the cost. For information about where to receive the vaccination, students should call 859-572-5118.
- Students are encouraged to complete the BOC examination, but it is not a requirement for graduation.

### Bachelor of Science with a major in Athletic Training (Clinical Education Program)

The Bachelor of Science in Athletic Training is a 74 credit hour 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 concentration in exercise science. Athletic training students do not need to complete a separate minor or concentration for graduation.

The clinical practicum courses (ATP 366, 367, 466, 467) provide students with an application of knowledge and skill in a real-world patient care setting. Students are placed with an approved clinical instructor 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 personal to meet specific needs. NKU ATEP has a total number of approved clinical instructors 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 spring/winter 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 provided in the ATEP Policies and Procedures Manual which is available on the Athletic Training program web page.

### Degree Requirements: B.S. – Athletic Training (clinical education program)

Core Courses in Athletic Training		Credits
ATP 200	Medical History and Documentation	1
ATP 201	Goniometry, Range of Motion, and Manual Muscle Testing	1
ATP 280	Pre-Athletic Training	2

ATP 333	Lower Extremity Evaluation <i>Prerequisite: BIO 208/208L Human Anatomy and Physiology I with Lab</i>	3
ATP 333L	Lower Extremity Evaluation Lab <i>Prerequisite: BIO 209/209L Human Anatomy and Physiology 2 with lab</i>	1
ATP 334	Upper Extremity Evaluation <i>Prerequisite: BIO 209/209L Human Anatomy and Physiology I with lab</i>	2
ATP 334L	Upper Extremity Evaluation Lab <i>Prerequisites: BIO 208/208L Human Anatomy and Physiology I with Lab and BIO 209/209L Human Anatomy and Physiology II with Lab</i>	1
ATP 335	Head and Spine Evaluation <i>Prerequisite: BIO 208/208L Human Anatomy and Physiology I with lab</i>	3
ATP 350	Athletic Training Junior Seminar	1
ATP 366	Athletic Training Clinical Practicum I	1
ATP 367	Athletic Training Clinical Practicum II	3
ATP 420	General Medical for Athletic Training	3
ATP 425	Therapeutic Modalities <i>Prerequisites: BIO 208/208L Human Anatomy and Physiology 2 with lab and BIO 209/209L Human Anatomy and Physiology with lab</i>	3
ATP 425L	Therapeutic Modalities Lab <i>Prerequisites: BIO 209/209L Human Anatomy and Physiology II with lab</i>	1
ATP 430	Pharmacology for Athletic Training	3
ATP 435	Administration of Athletic Health Care	3
ATP 440	Rehabilitation of Athletic Injuries <i>Prerequisites: BIO 209/209L Human Anatomy and Physiology II with lab</i>	3
ATP 440L	Rehabilitation of Athletic Injuries Lab	1
ATP 450	Athletic Training Senior Seminar	1
ATP 455	Current Issues in Athletic Training	3
ATP 466	Athletic Training Clinical Practicum III A	12
ATP 467	Athletic Training Clinical Practicum III B	1
<b>Credits in Athletic Training</b>		<b>52</b>
<b>Courses in Other Disciplines</b>		
HEA 135	Safety and First Aid	3
KIN 200	Concepts of Lifetime Fitness	2
KIN 280	Introduction to Athletic Training	3
KIN 360	Statistics and Measurements <b>OR</b>	
STA 205	Introduction to Statistical Methods <i>*STA 205 may count as math general education course</i>	3
KIN 370	Biomechanics	4
KIN 340	Exercise Physiology	4
KIN 260	Principles of Strength Training (3 credits OR Exercise Prescription (4 credits)	3 or 4
KIN 349		
PSY 405	Counseling Psychology*	3
<b>Credits in Other Disciplines</b>		<b>22 or 26</b>
<b>Additional Prerequisite Credits</b>		<b>18</b>
<b>TOTAL CREDITS</b>		<b>92 or 96</b>

## 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 50 hours observing and teaching under the supervision of a certified physical education teacher and a university faculty member. 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 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 or 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: (1) earn 60 hours of course credit, with an overall GPA of a 2.50 or higher, (2) receive a composite score of 21 or higher on the ACT, or 990 or higher on the SAT, (3) complete "CMST 101: Public Speaking" with a grade of *B* or better; (4) pass "EDU 104: Orientation: Education Profession/Program"; and (5) complete "PSY 100: Introduction to Psychology" with a *C* or better (see requirements for admission to the teacher education program).

To continue into the next professional semester, students must: (1) successfully complete each of the professional semester course requirements with a *C* or better and (2) complete a portfolio with an "approved" rating. To be eligible to student teach, students must: (1) successfully complete professional semesters I, II, and III; (2) maintain a 2.50 or higher overall GPA, and (3) maintain a GPA of 2.50 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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

### Degree Requirements: B.A. - Physical Education leading to P-12 Teaching Certification

Courses in Kinesiology and Health		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
KIN 313	Computer Applications for Health and Kinesiology	2
KIN 320	Motor Learning and Performance <i>Prerequisite:</i> BIO 208/208L Human Anatomy and Physiology I with Laboratory	3
KIN 330	Motor Development	3
KIN 370	Biomechanics	3

KIN 340	Exercise Physiology	4
KIN 385	Sociological and Psychological Dimensions of Sport and Physical Activity	3
<b>Credits in Kinesiology and Health</b>		<b>26</b>
<b>Courses in Physical Education</b>		
PHE 230	Motor Skill and Fitness Activities for Children	3
PHE 231	Dance and Rhythmic Activities	3
PHE 234	Team Sports	3
PHE 235	Individual and Dual Sports	3
PHE 310	Fitness Education for Children and Youth	3
PHE 319	Water Safety Instructor	3
PHE 470	Teaching Methods for Physical Education	4
PHE 490	Practicum in Teaching Elementary Physical Education	2
PHE 491	Practicum in Teaching Middle and Secondary Physical Education	1
PHE 500	Adapted Physical Education	3
<b>Credits in Physical Education</b>		<b>28</b>
<b>Core Courses in Other Disciplines</b>		
PSY 100	Introduction to Psychology	3
EDU 104	Orientation: Education Profession/Program	1
EDU 300	Human Growth and Development	3
EDU 305	Introduction to Education	2
EDU 311	Admissions Practicum for Secondary Grades*	2
*Must apply for acceptance to the teacher education program admission semester. Requirements for application: 2.75 or above overall GPA; PPST scores as stated in the Teacher Education section of the catalog.		
EDU 496	Student Teaching in Secondary School	12
BIO 208/208L	Human Anatomy and Physiology I with Laboratory	4
BIO 209/209L	Human Anatomy and Physiology II with Laboratory	4
<b>Credit in Other Disciplines</b>		<b>31</b>
<b>Additional Prerequisite Credits</b>		<b>4</b>
<b>TOTAL CREDITS</b>		<b>89</b>

## Kinesiology and Health Minors

### Minor in Health Education

The kinesiology and health department offers two tracks in the health education minor: (1) health education – P-12 teaching certification; and (2) 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: Practicum 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 2.5 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.

**Requirements for Minor: Health Education**

<b>Core Courses in Kinesiology and Health</b>		<b>Credits</b>
HEA 125	Introduction to Health Education	3
HEA 135	Safety and First Aid	3
HEA 160	Personal Health	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
<b>Credits in Kinesiology and Health</b>		<b>20</b>
<b>Core Courses in Other Disciplines</b>		<b>Credits</b>
BIO 126	Human Nutrition	3
BIO 208/208L	Human Anatomy & Physiology I with Laboratory	4
BIO 209/209L	Human Anatomy and Physiology II with Laboratory	4
"BIO 121: Disease 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 Disease and the Systems They Affect" is not required for a physical education major		3
<b>Credits in Other Disciplines</b>		<b>6-11</b>
<b>TOTAL CORE CREDITS</b>		<b>26-31</b>

<b>Health Education Track leading to P-12 Health Education Teacher Certification</b>		<b>Credits</b>
KIN 313	Computer Applications for Exercise Science	2
HEA 250	Health Education for Elementary Teachers	2
HEA 489	Practicum 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 305	Introduction to Education	2
EDU 311	Admissions Practicum for Secondary Grades	2
EDS 322	Instructional Planning for Inclusive Elementary Classrooms	3
EDU 496	Student Teaching in Secondary School (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
<b>TOTAL TRACK CREDITS</b>		<b>31</b>
<b>Total Core Credits</b>		<b>26-31</b>
<b>TOTAL CREDITS</b>		<b>57-62</b>

**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 an overall GPA of a 2.50 or better and 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 minor requirements, then the prerequisite is given in italics below the course for which it is a prerequisite, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

<b>Requirements for Minor: Physical Education</b>		<b>Credits</b>
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 360	Statistics and Measurement in Kinesiology <i>Prerequisite: MAHD 099 Intermediate Algebra or acceptable placement score</i>	3
KIN 340	Exercise Physiology <i>Prerequisites: BIO 208/208L Human Anatomy and Physiology I with Laboratory</i>	4
KIN 349	Exercise Prescription	4
<b>Program Credits</b>		<b>28</b>
<b>Additional Prerequisite Credits</b>		<b>4</b>
<b>TOTAL CREDITS</b>		<b>32</b>

**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: Introduction to Athletic Training" 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 at 859-572-1399.

<b>Requirements for Minor: Sports Medicine</b>		<b>Credits</b>
KIN 280	Introduction to Athletic Training	3
Select 18 credits from the following*:		
ATP 333/333L	Lower Extremity Evaluation with lab	
ATP 334/334L	Upper Extremity Evaluation with lab	
ATP 335	Head and Spine Evaluation	
ATP 420	General Medical for Athletic Training	
ATP 425/425L	Therapeutic Modalities with lab	
ATP 440	Rehabilitation of Athletic Injuries with lab	
ATP 435	Administration of Athletic Health Care	18
KIN 260	Introduction to Strength and Conditioning	
KIN 370	Biomechanics	
KIN 340	Exercise Physiology	
KIN 349	Exercise Prescription	
<b>TOTAL CREDITS</b>		<b>21</b>
*Many of the courses listed here have prerequisites. The most common are BIO 208/208L Human Anatomy and Physiology I with Laboratory, BIO 209/209L Human Anatomy and Physiology II with Laboratory, and PHY 110 Introduction to Physics with Laboratory.		

## DEPARTMENT OF TEACHER EDUCATION

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**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.php>

**Department Chair:** Shawn Faulkner

**Other Key Personnel:**

Assistant Chair (undergraduate): Sara Runge

Assistant Chair (graduate): Lenore Kinne

Department Coordinator: Beth McCubbin

Administrative Secretary: Patti Dischar

**Full-Time Faculty:** David Bishop, Kimberly Code, Chris Cook, Steve Crites, Denise Dallmer, Sara Eisenhardt, Shawn Faulkner, Doug Feldmann, Jaesook Gilbert, Helene Harte, John Huss, Missy Jones, Sarah Kasten, Steve Kerlin, Lenore Kinne, Ellen Maddin, Rachel Noll, Bianca Prather-Jones, Sara Runge, Tammie Sherry, Lynne Smith, Suzanne Soled, Jonathan Thomas, Brandelyn Tosolt, Stephen Walker

**Undergraduate Programs:**

**Majors with Certification:**

Bachelor of Arts

Interdisciplinary Early Childhood Education (birth to kindergarten)

Elementary Education (P-5)

Middle Grades Education (5-9)

**Secondary Education (degree name determined by major):**

English (8-12)

Mathematics (8-12)

Biology (8-12)

Chemistry (8-12)

Physics (8-12)

Earth/Space Science (8-12)

Social Studies (8-12)

Art (P-12)

Health Education (P-12) – must be paired with another certification area

Music (P-12)

Physical Education (P-12)

World Languages (P-12): French, Spanish, German

**Certification Programs:**

Special Education (P-12)

Middle Grades Extension

**Non-Certification Programs:**

Interdisciplinary 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 laboratory experiences provided by the university in cooperation with local school systems; and (4) in-depth preparation in the content area(s) leading to certification.

Initial certification of all new teachers requires successful completion of appropriate written tests 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 Boards. 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 TC-1 form and submit it to the College of Education and

Human Services' certification officer. The certification officer will submit the form to the EPSB.

Students who plan to teach in other states should work closely with the teacher education certification officer (MP 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 or 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 Student Education Association, 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 practicum**

To apply for the admissions practicum (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 *P*.
3. Attained a GPA of at least 2.75 on a 4.00 scale.
4. Earned a minimum of 45 semester hours of coursework.
5. Achieved the minimum score required by state regulations on an admission test: Pre-Professional Skills Test (PPST): Mathematics (0730) - 174 or Mathematics computerized (5730) - 174 Reading (0710) - 176 or Reading computerized (5710) - 176: Writing (0720) - 174 or Writing computerized (5720) - 174.

**Second step: Admission to the teacher education program**

To be admitted to the teacher education program a student must have:

1. Earned 60 semester hours of coursework.
2. Attained a cumulative GPA of at least 2.75 on a 4.00 scale.
3. Achieved at least a *B* in "ENG 291: Advanced College Writing" or equivalent or passed the writing sample examination.
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 practicum (EDU 303, EDU 307, EDU 309, or EDU 311).
7. Filed three positive teacher education recommendation forms by professional educators.
8. Completed the required application for admission.
9. Signed a curriculum contract.
10. Received approval of the teacher education committee.



11. Presented an approved portfolio from the admissions practicum.
12. Successfully completed an FBI background check.
13. Demonstrate the skills of communication, creativity, critical thinking, and collaboration as required by state regulation. These may be demonstrated in the following manner:
  - Communication: Completion of CMST 101 or ENG 291 with a grade of *B* or better.
  - Creativity: Completion of any course under "Culture & Creativity: Arts and Humanities" with a grade of *C* or better.
  - Critical Thinking: Completion of any course under "Scientific & Quantitative Inquiry: Natural Science or Mathematics & Statistics" or any course from "Self & Society: Individual and Society" with a grade of *C* or better.
  - Collaboration: Completion of the Admissions Practicum with a grade of *P*.

**You should also know:** At the time of graduation, all students in teacher education programs must meet the following GPA requirements:

1. Overall GPA of 2.75.
2. Pedagogy (EDU and EDS courses) GPA of 2.75.
3. Content course GPA of 2.75.

## 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 degree of Bachelor of Arts. Students have two options to choose from in completing this degree: (1) Interdisciplinary Early Childhood Education (IECE) 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. Students 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.

Students interested in the IECE certification track must have an overall minimum GPA of 2.75 and a minimum ACT of 21 (or SAT 990 or successfully complete all three portions of the Praxis I exam) to enter the College of Education and Human Services program. Upon successful completion of this program and successfully passing the IECE Praxis II exam, the graduate will qualify for an institutional recommendation for a Kentucky Provisional Certificate for teaching in early childhood settings (birth to kindergarten).

Students must earn a minimum grade of *C* (not *C-*) in all major courses, successfully complete all practica, and have a minimum GPA of 2.75 overall to graduate.

To apply for admission in the Non-Certification Program, students are required to successfully complete EDU 104, and to demonstrate computer proficiency by completing a computer course or passing a computer proficiency exam. Students must earn a minimum grade of *C* in all major courses and successfully complete all practica, including final practicum. Additionally, students must have a minimum GPA of 2.75 overall to graduate. Students should meet with their advisor for specific course requirements and to sign a curriculum contract.

### Degree Requirements: B.A. – Early Childhood Education

Core Courses In Teacher Education		Credits
EDU 104	Orientation: Education Profession/Program <i>EDU 104 is a prerequisite course for all other EDU and EDS courses except EDU 300 and EDS 360.</i>	1
EDU 300	Human Growth and Development	3
EDU 301	Interpersonal Interaction and Guidance	3
EDU 303	Early Childhood Admissions Practicum (only required for IECE certification track)	2
EDU 305	Introduction to Education	2
EDU 313	Instructional Technology	2
EDU 320	Working with Families of Young Children	3
EDU 395	IECE Practicum I	3
EDU 397	IECE Practicum II	3
EDU 554	Language Development and Emergent Literacy	3
EDU 550	Current Trends in Early Childhood Education	3
EDU 551	Preschool Education and Programming	3
EDU 552	Infant and Toddler Education and Programming	3
EDU 564	Collaboration in Early Childhood Education	3
EDU 565	Early Childhood Assessments for Screening	3
EDU 566	Ongoing Assessment in Early Childhood Education	3
EDU 568	Administration and Supervision in Early Childhood Education	3
EDS 360	Students with Exceptionalities in School	2
EDS 562	Early Childhood Special Education Programs	3
<b>Core Credits in Teacher Education</b>		<b>51</b>
Core Courses in Other Disciplines		
PSY 100	Introduction to Psychology (General Education: Individual & Society)	3
CMST 101	Public Speaking (General Education: Oral Communication)	3
BIO 120/120L	Understanding the Living World with Laboratory (General Education: Natural Science)	4
English courses (may be met through general education requirements)		6
KIN 330	Motor Development	3
<b>Core Credits in Other Disciplines</b>		<b>19</b>
<b>TOTAL CORE CREDITS</b>		<b>70</b>
IECE Certification Track		Credits
EDU 559	Assistive Technology for Early Childhood Classrooms	3
EDS 362	Applied Behavior Analysis for Students with Disabilities	3
EDU 491	Student Teaching in IECE	12
Electives		Varies
<b>TOTAL IECE CERTIFICATION TRACK CREDITS</b>		<b>Varies</b>
Non-Certification Track		Credits
EDU 490	Non-certification Final Practicum	6
ENTP 150	Overview of Accounting	3
SWK 510	Child Abuse	3
Electives		Varies
<b>TOTAL NON-CERTIFICATION TRACK CREDITS</b>		<b>Varies</b>

### Bachelor of Arts with a major in Elementary Education (P-5)

The elementary education (P-5) program leads to the degree of 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).

**Degree Requirements: B.A. – Elementary Education**

Courses in Teacher Education		CREDITS
EDU 104	Orientation: Education Profession/Program <i>EDU 104 is a prerequisite course for all other EDU and EDS courses except EDU 300 and EDS 360.</i>	1
EDU 300	Human Growth and Development	3
EDU 302	Teaching of Reading	3
EDU 305	Introduction to Education	2
EDU 306	Teaching Elementary School Mathematics	3
EDU 307	Admissions Practicum for Elementary Grades	2
EDU 308	Teaching Elementary School Science	3
EDU 310	Teaching Language Arts in the Early Grades	3
EDU 312	Teaching Social Studies in the Early Grades	3
EDU 313	Instructional Technology	2
EDU 314	Classroom Management	3
EDU 315	Educational Assessment: Elementary Schools	2
EDU 390	Elementary Practicum I	2
EDU 392	Elementary Practicum II	2
EDU 494	Student Teaching Early Elementary School	12
EDS 322	Instructional Planning for Inclusive Elementary Classrooms	2
EDS 360	Students with Exceptionalities in School	2

Core Credits in Teacher Education		50
<b>Courses in Other Disciplines</b>		
PSY 100	Introduction to Psychology (General Education: Individual & Society)	3
CMST 101	Public Speaking (General Education: Oral Communication)	3
STA 113	Introduction to Probability and Statistics (General Education: Mathematics and Statistics)	3
BIO 120/120L	Understanding the Living World with Laboratory (General Education: Natural Science)	4
ARTE 280	Art for Elementary Education	3
ENG 386	Children's Literature	3
HEA 250	Health Education for Elementary Teachers	2
MAT 140	Mathematics for Elementary and Middle Grades Teachers I <i>*Prerequisite: Math ACT 19 or MAHD 095</i>	3
MAT 141	Mathematics for Elementary and Middle Grades Teachers II* <i>Prerequisite: Math ACT 20 or MAHD 091 and MAT 140</i>	3
MUS 260	Music Fundamentals and Skills for Classroom Teachers	3
PHE 250	Physical Education for Elementary Teachers	2
Electives		10
Prerequisite for Professional Semester II: One history course and one geography course		
<b>Core Credits in Other Disciplines</b>		<b>39</b>
<b>TOTAL CREDITS</b>		<b>89</b>

**Special Education Specialization:** Those seeking elementary certification may also choose to complete certification in special education. For courses leading to certification in special education, refer to the Special Education program description.

**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 degree of 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 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. 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. 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**

Core Courses in Teacher Education		Credits
EDU 104	Orientation: Education Profession/Program <i>EDU 104 is a prerequisite course for all other EDU and EDS courses except EDU 300 and EDS 360.</i>	1
EDU 300	Human Growth and Development	3
EDU 304	Reading and Writing Across the Curriculum: Middle Grades	3
EDU 305	Introduction to Education	2
EDU 309	Admissions Practicum for Middle Grades	2
EDU 313	Instructional Technology	2
EDU 318	Classroom Climate Management: Middle Schools	1
EDU 343	Educational Assessment: Middle Schools	2
EDU 344	Fundamentals of Middle Grades Education	2
Methods Courses - select two courses from the following*		
EDU 345	Teaching Language Arts in Middle Grades	6
EDU 346	Teaching Science in Middle Grades	
EDU 347	Teaching Mathematics in Middle Grades	
EDU 348	Teaching Social Studies in Middle Grades	
EDU 391	Middle Grades Practicum I	2
EDU 394	Middle Grades Practicum II	2
EDU 495	Student Teaching in Middle Grades	12
EDS 323	Instructional Planning for Inclusive Middle Level Classrooms	2
EDS 360	Students with Exceptionalities in School	2
<b>Core Credits in Teacher Education</b>		<b>44</b>

Core Courses in Other Disciplines		Credits
PSY 100	Introduction to Psychology (General Education: Individual and Society)	3
CMST 101	Public Speaking (General Education: Oral Communication)	3
<b>Core Credits in Other Disciplines</b>		<b>6</b>
<b>TOTAL CORE CREDITS</b>		<b>50</b>
<i>*Two methods courses are to be completed, one in Professional Semester I and the other in Professional Semester II. Students who select Special Education as an area of concentration will only take one methods course.</i>		

**Content area specializations:** Students select two content area specializations 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.

<b>English/Communications Specialization</b>		<b>Credits</b>
ENG 291	Advanced College Writing	3
ENG 208	Survey of American Literature I <b>OR</b>	3
ENG 209	Survey of American Literature II	
Select two English courses from the following:		
ENG 202	Survey of British Literature I	6
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 216	Studies in Non-Western Literature	
ENG 217	African-American Literature to 1940	
ENG 218	African-American Literature 1940-Present	
ENG 306	Multicultural American Literature	
Course in Non-Western Literature		
ENG 530	Readings in the English Language	3
Select one writing course from the following:		
ENG 231	Introduction to Creative Writing	3
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	Newswriting <b>OR</b>	3
CMST 310	Argumentation	
ENG 371	Traditional Grammar	3
<b>TOTAL SPECIALIZATION CREDITS</b>		<b>24</b>
<b>Total Core Credits</b>		<b>50</b>
<b>TOTAL CREDITS</b>		<b>74</b>
<b>Social Studies Specialization</b>		<b>Credits</b>
HIS 102	History of the United States through 1877	3
HIS 103	History of the United States since 1877	3
HIS 108	World History to 1500	3
HIS 109	World History since 1500	3
GEO 101	World Regional Geography	3
PSC 102	Comparative Politics	3
ECO 205	Economics for Teachers	3
ANT 100	Cultural Anthropology <b>OR</b>	3
SOC 100	Introduction to Sociology	
<b>TOTAL SPECIALIZATION CREDITS</b>		<b>24</b>
<b>Total Core Credits</b>		<b>50</b>
<b>TOTAL CREDITS</b>		<b>74</b>

<b>Mathematics Specialization</b>		<b>Credits</b>
MAT 140	Mathematics for Elementary and Middle Grades Teachers I	3
MAT 141	Mathematics for Elementary and Middle Grades Teachers II	3
MAT 240	Geometry for Middle School Teachers	3

Select one informatics course from the following:			
INF 110	Business Programming	3	
INF 120	Elementary Programming		
INF 260	Object-Oriented Programming I		
MAT 110	Introductory Probability	3	
STA 205	Introduction to Statistical Methods <b>OR</b>	3	
STA 212	Statistics for Business Applications I		
Select two mathematics courses from the following:			
MAT 109	Algebra for College Students	6	
MAT 112	Applied Calculus		
MAT 114	Finite Mathematics		
MAT 115	Mathematics for Liberal Arts		
MAT 119	Pre-Calculus Mathematics		
MAT 128	Calculus A		
MAT 129	Calculus I		
MAT 185	Introductory Discrete Mathematics		
MAT 227	Calculus B		
<b>TOTAL SPECIALIZATION CREDITS</b>			<b>24</b>
<b>Total Core Credits</b>		<b>50</b>	
<b>TOTAL CREDITS</b>		<b>74</b>	
<b>Science Specialization (All courses except elective must include a lab component)</b>		<b>Credits</b>	
BIO 120/120L	Understanding the Living World with Laboratory	4	
CHE 105	Discovering Chemistry with Laboratory <b>OR</b>	4 or 8	
CHE 120/120L and CHE 121/121L	General Chemistry I and II with Laboratory		
PHY 110	Introduction to Physics with Laboratory	4	
AST 110	Solar Systems Astronomy with Laboratory	4	
GLY 110	The Face of the Earth with Laboratory	4	
**Select one course from the following:			
<i>LIFE SCIENCES:</i>			
BIO 150/150L	Introduction to Biology I with Laboratory (5)	4	
BIO 151/151L	Introduction to Biology II with Laboratory (5)		
BIO 208/208L	Human Anatomy and Physiology I with Laboratory (4)		
BIO 123	Human Ecology (3)		
BIO 121/121L	Disease and the Systems They Affect with Laboratory (3-4)		
<i>INTEGRATED SCIENCE:</i>			
SCI 110	Integrative Natural Science (4)	4	
<i>PHYSICAL SCIENCES:</i>			
PHY 211	General Physics I with Laboratory (5)		
PHY 213	General Physics II with Laboratory (5)	3-4	
CHE 396	Practicum: Chemistry Laboratory (1-2)		
<i>EARTH &amp; SPACE SCIENCE:</i>			
GLY 120/120L	This Dangerous Earth with Laboratory (4)	3-4	
GLY 220	History of the Earth (3)		
AST 115	Stars, Galaxies, and Cosmology with Laboratory (4)		
<b>TOTAL SCIENCE CREDITS</b>		<b>24 or 28</b>	
<b>Total Core Credits</b>		<b>50</b>	
<b>TOTAL CREDITS</b>		<b>74 or 78</b>	
**Science Electives: If credit hour total for emphasis area is less than 24 hours, select additional elective hours from the list above.			
<b>Special Education Specialization</b>		<b>Credits</b>	
For courses leading to certification in special education, refer to the Special Education program description.			

**Bachelor of Arts with a major in Secondary Education (8-12)**

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.

**Degree Requirements: B.A. – Secondary Education**

Core Courses in Teacher Education		Credits
EDU 104	Orientation: Education Profession/Program*	1
<i>EDU 104 is a prerequisite course for all other EDU and EDS courses except EDU 300 and EDS 360.</i>		
EDU 300	Human Growth and Development	3
EDU 305	Introduction to Education	2
EDU 311	Admissions Practicum for Secondary Grades	2
EDU 313	Instructional Technology	2
EDU 319	Classroom Climate Management: Secondary	1
EDU 325	Educational Assessment: Secondary	2
EDU 324	Fundamentals of Secondary Education	2
Methods Course(s) for chosen teaching field		3-6
EDU 393	Secondary Practicum I	2
EDU 396	Secondary Practicum II	2
EDU 496	Student Teaching in Secondary School	12
EDS 324	Instructional Planning for Inclusive Secondary Classrooms	2
EDS 360	Students with Exceptionalities in School	2
<b>Core Credits in Education</b>		<b>38-41</b>
Core Courses in Other Disciplines		
PSY 100	Introduction to Psychology (General Education: Individual and Society)	3
CMST 101	Public Speaking (General Education: Oral Communication)	3
<b>Core Credits in Other Disciplines</b>		<b>6</b>
<b>TOTAL CORE CREDITS</b>		<b>44-47</b>
SELECTED TEACHING FIELD		Credits
Students should refer to the content area department for specific content course requirements in the selected teaching field.		
English (8-12)		
Mathematics (8-12)		
Biology (8-12)		
Chemistry (8-12)		
Physics (8-12)		
Earth/Space Science (8-12)		
Social Studies (8-12)		
Art (P-12)		
World Languages (P-12): French, Spanish, German		
Health Education (P-12) – must be paired with another certification area		
Music (P-12)		
Physical Education (P-12)		
<b>TOTAL CONTENT CREDITS</b>		<b>Varies</b>

Special Education Specialization	Credits
Those seeking secondary certification may also choose to complete certification in special education. For courses leading to certification in special education, refer to the Special Education program description.	

**Other Teacher Education Programs****Special Education Certification**

Students who want to become special education teachers must also complete requirements for either an elementary, middle, or secondary (high school) teaching certification. Those choosing to become certified in special education will be working with students who have identified learning disabilities, behavior disorders, mild intellectual disability, 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 the resource room; or may teach students with disabilities in a self-contained special education classroom. When finished, students may apply to become certified to teach individuals with mild disabilities from kindergarten through 12th grade. Students must maintain an overall GPA of 2.50 (2.75 beginning fall 2012) throughout the program. Additionally, students will need to work closely with their assigned advisor to ensure requirements for both general education teaching certification (elementary, middle, and secondary) as well as the requirements for special education teaching certification are met.

**Program Requirements: Special Education Certification**

Core Courses in Special Education		Credits
EDS 364	Learning and Behavior Disorders	3
EDS 561	Mental and Orthopedic Disabilities	3
EDS 562	Early Childhood Special Education Programs	3
EDS 570	Working with Families of Students with Disabilities	3
EDS 572	Secondary Special Education Programs	3
<b>Credits in Special Education</b>		<b>15</b>
Professional Semester III – Special Education Block (Fall Semester Only)		
EDS 362	Applied Behavior Analysis for Students with Disabilities	3
EDS 464	Assessment of Learning and Behavior Disorders	3
EDS 472	Special Education Methods and Materials	3
EDS 473	Special Education Practicum	2
<b>Credits for Professional Semester III</b>		<b>11</b>
Professional Semester IV – Student Teaching		
Select one of the following courses		
EDU 492	Student Teaching in Elementary School with Special Education Endorsement	12
EDU 493	Student Teaching in Middle Grades with Special Education Endorsement	
EDU 497	Student Teaching in Secondary School with Special Education	
<b>Credits for Student Teaching</b>		<b>12</b>
<b>TOTAL CORE CREDITS</b>		<b>38</b>

<b>Additional Courses if Middle Grades Education with Special Education</b>		<b>Credits</b>
MAT 140	Mathematics for Elementary and Middle Grades Teachers I	3
MAT 141	Mathematics for Elementary and Middle Grades Teachers II	3
ARTE 280	Art for Elementary Education <b>OR</b>	3
MUS 260	Music Fundamentals and Skills for Classroom Teachers	
<b>Additional Credits if Middle Grades Education with Special Education</b>		<b>9</b>
<b>Total Core Credits</b>		<b>38</b>
<b>TOTAL CREDITS</b>		<b>47</b>

<b>Additional Courses if Secondary Education with Special Education</b>		<b>Credits</b>
MAT 140	Mathematics for Elementary and Middle Grades Teachers I	3
MAT 141	Mathematics for Elementary and Middle Grades Teachers II	3
ARTE 280	Art for Elementary Education <b>OR</b>	3
MUS 260	Music Fundamentals and Skills for Classroom Teachers	
EDU 304	Reading and Writing Across the Curriculum: Middle Grades	3
<b>Additional Credits if Secondary Education with Special Education</b>		<b>12</b>
<b>Total Core Credits</b>		<b>38</b>
<b>TOTAL CREDITS</b>		<b>50</b>

### 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; courses may also be offered in the summer. 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

<b>Core Courses in Teacher Education (Elementary pre- or in-service teachers)</b>		<b>Credits</b>
EDU 344	Fundamentals of Middle Grades Education	2
EDU 318	Classroom Climate Management: Middle Schools	1
Select one course from the following:		
EDU 345	Teaching Language Arts in Middle Grades	3
EDU 346	Teaching Science in Middle Grades	
EDU 347	Teaching Mathematics in Middle Grades	
EDU 348	Teaching Social Studies in Middle Grades	
<b>Credits in Teacher Education</b>		<b>6</b>
<b>Core Courses in Other Disciplines</b>		
Complete required content courses for middle grades certification. Required courses will be determined by a review of the student's transcript.		
<b>Other Credits</b>		<b>Varies</b>
<b>TOTAL CORE CREDITS</b>		<b>Varies</b>

<b>CORE COURSES IN TEACHER EDUCATION (Secondary pre- or in-service teachers)</b>		<b>Credits</b>
EDU 344	Fundamentals of Middle Grades Education	2
EDU 318	Classroom Climate Management: Middle Schools	1
Select one course from the following:		
EDU 304	Reading and Writing Across the Curriculum: Middle Grades	3
EDU 530	Reading in Junior and Senior High School	
EDG 630	Language and Learning Across the Curriculum	
Select one course from the following:		
EDU 345	Teaching Language Arts in Middle Grades	3
EDU 346	Teaching Science in Middle Grades	
EDU 347	Teaching Mathematics in Middle Grades	
EDU 348	Teaching Social Studies in Middle Grades	
<b>Credits in Teacher Education</b>		<b>9</b>
<b>CORE COURSES IN OTHER DISCIPLINES</b>		
Complete required content courses for middle grades certification. Required courses will be determined by a review of the student's transcript.		
<b>Other Credits</b>		<b>Varies</b>
<b>TOTAL CORE CREDITS</b>		<b>Varies</b>

# COLLEGE OF HEALTH PROFESSIONS

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**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:** Denise Robinson

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

**Phone:** 859-572-5895

**Fax:** 859-572-6098

**Email Addresses:**

Nursing department – [nursing@nku.edu](mailto:nursing@nku.edu)

Allied health department – [alliedhealth@nku.edu](mailto:alliedhealth@nku.edu)

**Advisors:**

Eric Anderson, Sarah Dill (RN-BSN program only), Sallie Parker Lotz, E. Shane Talbott

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 National League for Nursing Accrediting Commission.

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

**Email Address:** [nknrc@nku.edu](mailto:nknrc@nku.edu)

**Web Address:** <http://healthprofessions.nku.edu/centers.html>

**Director:** Denise Robinson

The purpose of the Northern Kentucky Nursing Research Collaborative (NKNRC) 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 327

**Telephone:** 859-572-5242

**Email Address:** [fosterc2@nku.edu](mailto:fosterc2@nku.edu)

**Web Address:** <http://healthprofessions.nku.edu/nacu>

**Director:** Cindy L. Foster, RNC, MS

**Other Key Personnel:**

Medical Director: Denise Robinson

Secretary: Katie Longshore

Treasurer: Kimberly McErlane

Site Coordinators:

Welcome House and Women's Residential Addictions Program: Melanie Walters

Madison Ave. Christian Church, Covington Emergency Cold Shelter and

Transitional Shelter: Cheryl Swayne and Kimberly McErlane

City Heights Health Initiative: Cindy Foster

The Nurse Advocacy Center for the Underserved provides outreach healthcare services to the underserved in Northern Kentucky and 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 (dinners 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 our sites completing requirements for their community and leadership clinical experiences.

# DEPARTMENT OF ALLIED HEALTH

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**Location:** Albright Health Center 227

**Telephone:** 859-572-5476

**Fax:** 859-572-1314

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

**Web Address:** <http://alliedhealth.nku.edu/>

**Department Chair:** Valerie V. Rowland

**Other Key Personnel:**

Program Director, Bachelor of Health Science: Andrea Cornuelle

Program Director, Radiologic Technology: Trina Koscielicki

Program Director, Respiratory Care: Robert Langenderfer

Academic Coordinator: Karen Peacock

**Full-Time Faculty:** Andrea Cornuelle, Diane Gronefeld, Debra Kasel, Trina Koscielicki, Robert Langenderfer, Karen Leek, Debbie Patten, Valerie V. Rowland

**Undergraduate Programs:**

**Associate Degrees:**

Radiologic Technology (accredited by Joint Review Committee on Education in Radiologic Technology)

Respiratory Care (accredited by Commission on Accreditation for Respiratory Care)

**Bachelor's Degree**

Bachelor of Science in Health Science

## Radiologic Technology

The radiologic technology program 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 technology 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; Dearborn County Hospital (Lawrenceburg, IN); 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 technology 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 technology admission committee determines academic eligibility and ranks the applicants. Approximately 28 students are accepted each year. There is NOT 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 technology program, students must meet the following requirements:

- a. Satisfactory completion of the following courses with a grade of *C* or better:
  - BIO 208 & 208L Human Anatomy and Physiology I
  - PHY 110 Introduction to Physics
  - ENG 101 College Writing
  - Math General Education Elective
- b. A minimum GPA of 2.5 in all college work attempted on a 4.00 basis.
- c. Completion of a four-hour observation in a hospital radiology department and submission of the associated observation worksheet with the program application.

Admission into the radiologic technology program is completely objective and is based on academic screening. Applicants are awarded points based on the following:

- Overall GPA based on the applicant's most recent 45 semester hours.
- Grades earned in prerequisite and general studies courses required for the program.
- Total number of credits earned.
- Related healthcare experience (paid or volunteer)\*.

Students attending NKU will be awarded bonus points in the application process.

\*Applicants without related healthcare experience may complete "RAD 101: Introduction to Allied Health Professions" to earn points in this category.

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. 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.

**You should also know:** The radiologic technology program is a full-time, daytime program. In the second summer and fall, students will complete an evening shift clinical assignment of 1 or 2 weeks.

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.

Candidates eligible for the Radiologic Technology 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 health care 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.

Students with a disability should declare the disability and provide verification to the Office of Disability Services so that reasonable accommodations can be made.

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 37 hours toward completion of NKU professional course requirements in radiologic technology. Students admitted into the associate degree program under the advanced standing policy will be held accountable for meeting all prevailing university and program requirements for graduation.

**Degree Requirements: Associate of Applied Science - Radiologic Technology**

Required for Admission		Credits
BIO 208/208L	Human Anatomy and Physiology I with Laboratory	4
PHY 110	Introduction to Physics with Laboratory	4
ENG 101	College Writing	3
General Education Mathematics Elective		3
<b>Credits Required for Admission</b>		<b>14</b>

Courses in Radiologic Technology		
RAD 202	Medical Terminology for Health Professionals	1
RAD 200	Introduction to Radiography	6
RAD 208	Radiographic Procedures I	3
RAD 208L	Radiographic Positioning I with Laboratory	1
RAD 214/214L	Analysis of Radiographic Quality with Laboratory	4
RAD 286	Radiographic Practicum I	3
RAD 209	Radiographic Procedures II	3
RAD 209L	Radiographic Positioning II with Laboratory	1
RAD 216	Physical Principles of Radiographic Equipment	4
RAD 230	Professional Communication in Health Science	2
RAD 296	Radiographic Practicum II	3
RAD 376	Radiographic Practicum III	2
RAD 303	Radiographic Procedures III	3
RAD 340	Radiation Biology and Protection	3
RAD 386	Radiographic Practicum IV	3
RAD 334	Specialized Medical Imaging	3
RAD 350	Clinical Pathology for Radiographers	3
RAD 360	Quality Assurance	2
RAD 394	Radiography Seminar	1
RAD 396	Radiographic Practicum V	3
<b>Credits In Radiologic Technology</b>		<b>54</b>
Courses in Other Disciplines		
BIO 209/209L	Human Anatomy and Physiology II with Laboratory	4
CMST 101	Public Speaking	3
General Education: Self and Society Category		3
General Education: Culture and Creativity or Global Viewpoints Category		3
<b>Credits in Other Disciplines</b>		<b>13</b>
<b>TOTAL CREDITS</b>		<b>81</b>

**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 program at NKU is five semesters long, including summer sessions. Besides didactic, lab, and clinical training in basic respiratory care, the first year includes courses in microbiology and anatomy/physiology. The summer and the second year focus on more advanced or specialized modalities of respiratory care and the general education 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 degree of 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 Respiratory Care Professional 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:

- Complete a program application form.
- Possess a GPA of 2.30 or higher on previous college coursework, assuming a 4.00 scale.
- Completion of CHE 115/115L (with a C- or higher).
- Completion of general education courses in the "Written I" and "Oral" parts of the communication category.
- Successful completion of a criminal background check is required prior to final acceptance into the program.

**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.

Applications completed prior to **February 15** are given priority. Conditional acceptance into the program can be given to students enrolled in any pre-requisite 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 (X-RSP) 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.

**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.\*

Issue	Standard	Some Examples of Necessary Activities (not all inclusive)
Critical Thinking	Critical thinking ability sufficient for clinical judgment.	Identify cause-effect relationships in clinical situations, develop respiratory care plans.
Communication	Communication abilities sufficient for interaction with others in verbal and written forms.	Explain treatment procedures, initiate health teaching, document and interpret therapeutic procedures and patient/client responses.

Interpersonal Skills	Interpersonal abilities sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds.	Establish rapport with patients/ clients/colleagues/groups from a variety of social, emotional, cultural, and intellectual backgrounds.
Mobility	Physical abilities sufficient to move from room to room and maneuver in small spaces.	Move around in patients' rooms, work spaces, and treatment areas; administer cardio-pulmonary procedures.
Motor Skills	Gross and fine motor abilities sufficient to provide safe and effective respiratory care.	Calibrate and use equipment; position patients/clients.
Hearing	Auditory ability sufficient to monitor and assess health needs.	Hear monitor alarms, emergency signals, and auscultatory sounds.
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 and at least C- in each science course in order to continue in the program. Accurate knowledge of chemistry and human anatomy and physiology is essential to 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 of less 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 students prepare for the actual Entry Level and Registry examination, and (3) provide group examination performance information for program self-evaluation as required for accreditation.

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: Associate of Applied Science - Respiratory Care

Required for Admission		Credits
CHE 115/115L	Physiological Chemistry with Laboratory	4
ENG 101	College Writing (Written Communication I)	3
CMST 101	Public Speaking (Oral Communication)	3
<b>Credits Required for Admission</b>		<b>10</b>
Courses In Respiratory Care		
RSP 201	Fundamentals of Respiratory Care	4
RSP 201L	Patient Assessment with Laboratory	1
RSP 202	Medical Terminology for Health Professions	1
RSP 286	Clinical Practicum I	2
RSP 220	Ventilatory Support	3
RSP 220L	Respiratory II with Laboratory	1
RSP 296	Clinical Practicum II	2
RSP 310	Artificial Ventilation	3
RSP 310L	Respiratory Lab III	1
RSP 235	Respiratory Physiology and Physics	3
RSP 386	Clinical Practicum III	3
RSP 362	Prenatal-Pediatric Respiratory Care	3
RSP 331	Cardiopulmonary Diagnostics	2
RSP 350	Chest Diseases	3
RSP 340	Pulmonary Rehabilitation	1
RSP 480	Respiratory Care Seminar	3
RSP 396	Clinical Practicum IV	3
RSP 486	Clinical Practicum V	3
<b>Credits in Respiratory Care</b>		<b>42</b>
Courses in Other Disciplines		
HSC 105	Pharmacology	2
BIO 202/202L	Microbiology for Health Professionals with Laboratory	4
BIO 208/208L	Human Anatomy and Physiology I with Laboratory	4
BIO 209/209L	Human Anatomy and Physiology II with Laboratory	4
Mathematics Elective		3
General Education: Self and Society Category		3
General Education: Culture and Creativity or Global Viewpoints Category		3
<b>Credits in Other Disciplines</b>		<b>23</b>
<b>TOTAL CREDITS</b>		<b>75</b>

## Health Science Major

### Bachelor of Science with a major in Health Science

The Bachelor of Science in Health Science degree 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 program is offered in a totally online format and is designed for those individuals who have earned a clinically based associate degree or are completing their professional coursework in a clinically based healthcare discipline and want to expand their education. Evaluation of transfer credits

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 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, and hold a certification in an appropriate allied health discipline to be eligible for program admission.

**Academic requirements:** To be eligible for admission to the health science program, students must meet the following criteria:

1. Possess an earned associate degree in a clinically based healthcare discipline\*.
2. Be currently registered/certified in their discipline.
3. Possess a cumulative GPA of 2.00 or higher on a 4.00 scale.
4. Demonstrate knowledge and understanding of anatomy and physiology, as well as other sciences related to healthcare and the applicant's discipline.

\*Students enrolled in the second year of the RAD or RSP program at NKU may be conditionally accepted; documentation of certification must be submitted prior to completion of the BS degree.

### 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.

### Special graduation requirements:

- A minimum grade of *C* or better for successful completion of major requirements.
- Verification of registry/certification with appropriate professional organization.

**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://alliedhealth.nku.edu/programs/healthscience/admission.php> and faxed to 859-572-1314. 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://nkuonline.nku.edu/undergraduate/health.php>).

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:** 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 6 or more hours of coursework at the 300 level or above that may be used to fulfill 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 (NBRC). 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.

Credit hours earned under this policy may not be used to satisfy the residency requirements for graduation. Students who earn these credits 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.

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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

<b>Major Requirements: B.S. – Health Science</b>		<b>Credits</b>
HSC 410	Health Care Management	3
HSC 413	Aging in Today's Society	3
HSC 421	Healthcare Research <i>Prerequisite: STA 205 Introduction to Statistical Methods or STA 212 Statistics for Business Applications I</i>	3
HSC 460	Concepts of Quality Patient Care	3
HSC 480	Senior Seminar (Taken last semester in the program)	3
INF 355	Introduction to Health Informatics	3
LDR 308	Leadership Development	3
Select three courses from the following:		
HSC 440	Issues in Chronic Disease Management	
HSC 494	Topics in Health Care	
RAD 310	Sectional Anatomy	
RAD 450	Advanced Imaging Pathology	
RAD 470	Topics: Advanced Imaging	
RAD 496	Practicum: Advanced Imaging	
RSP 441	Disease Management	
RSP 442	Disease Management II	
HSR 314	Death, Dying and Grief	
LDR 382	Organizational Change	9
LDR 381	Organizational Ethics	
PSY 302	The Human Side of Work	
PSY 333	Abnormal Psychology <i>Prerequisite: PSY 100 Introduction to Psychology</i>	
PSY 344	Industrial/Organizational Psychology	
CMST 303	Organizational Communication	
CMST 355	Cross-Cultural Communication	
<b>Program Credits</b>		<b>33</b>
<b>TOTAL CREDITS</b>		<b>33</b>

## DEPARTMENT OF NURSING

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**Location:** Albright Health Center 303

**Telephone:** 859-572-5895

**Fax:** 859-572-6098

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

**Web Address:** <http://nursing.nku.edu/>

**Department Chair:** Carrie A. McCoy

**Other Key Personnel:**

BSN Program Director: Vacant

ABSN Program Director: Kim Dinsey-Read

RN to BSN Program Director: Ann Keller

Advisors: Sallie Parker Lotz, Shane Talbott, Eric Anderson, Sarah Dill (RN-BSN only)

**Full-Time Faculty:** Kathy Bergman, Joy A. Churchill, Pamela Davis, Adele Dean, Kim Dinsey-Read, Deborah Engel, Cindy Foster, Traci Freeman, Mary A. Gers, Sandra Grinnell, Julie Hart, Ann Keller, Lisa Knapp, Karen Laycock, Caron Martin, Carrie A. McCoy, Kristen Neumann, Louise Niemer, Catherine Pence, Kris Pfendt, Pamela Phares, Angela Riley, Erin Robinson, Lynn Smith, Gannon Tagher, Sandra Turkelson, Melanie Walters

**Undergraduate Programs:**

**Majors:**

Bachelor of Science in Nursing

Traditional Four-Year Baccalaureate Nursing Degree

Accelerated BSN 2nd Degree Program

RN to BSN

All three academic programs are approved by the Kentucky Board of Nursing, Suite 300, 312 Whittington Parkway, Louisville, KY 40222-5172, 502-429-3300, and are accredited by the National League for Nursing Accreditation Commission, 3343 Peachtree Road, NE, Suite 850, Atlanta, GA 30326, 404-975-5000.

**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 2nd degree students for entry-level practice in this exciting field. The RN to BSN 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 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 and doctoral levels.

**Special opportunities for our students:** The ABSN and BSN programs include planned clinical experiences in the community, local healthcare agencies in northern Kentucky and the Greater Cincinnati area as well as in NKU's state-of-the-art simulation laboratory.

Nursing students have opportunities to become members of the Student Nurses Association, participate in service-learning opportunities with the Nurse Advocacy Center for the Underserved (NACU) and other community agencies, and participate in supplemental instruction. Interested students also have an opportunity to study nursing abroad in Mexico 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 BSN 2nd 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 less than 8 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 (iBT) 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 (TOEFL) 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 (iBT). 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.

Admission to nursing is provisional based on successful completion of pre-requisites, GPA, passage of the criminal background check administered through NKU's Department of Public Safety and minimum score on the TOEFL, if required.

Applicants without a bachelor's degree should see program requirements for the traditional BSN program. Those with a bachelor's degree who want the accelerated option should see requirements for the BSN 2nd Degree program. Registered nurses with an associate degree or diploma should see program requirements for the RN to BSN degree.

**You should also know:** Nursing majors are not required to have a minor or area of concentration.

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 National League for Nursing Accrediting Commission and Kentucky Board of Nursing.

The nursing curriculum for the traditional BSN program was revised effective fall 2010. The nursing curriculum for the BSN 2nd degree program (ABSN) was revised effective fall 2011. See program requirements traditional BSN program pre-fall 2010 if admitted prior to fall 2010.

All BSN and ABSN students are required to participate in the Evolve® Curriculum Support Program. This is a commercial program that provides addi-

tional resources for student learning. It is composed of case studies, practice tests/quizzes and standardized testing, including the HESI RN-Exit exam. Standardized test scores contribute to final course grades in select courses. A minimum score of 900 is required on the HESI RN-Exit exam in order to graduate from the traditional BSN and BSN 2nd degree programs. A fee is assessed for this program, currently \$100 per semester.

**Statement regarding when courses are offered in the Department of Nursing:** All the NRS courses listed in the traditional BSN program effective beginning fall 2010 will be offered both fall and spring after the first offering of the course.

The courses listed in the program of study for students admitted prior to fall 2010 will be phased out after students who entered in spring 2010 have completed the course. Students from the class admitted in spring 2010 who fail a nursing course will be required to reapply for admission and will be placed in classes in the new curriculum based upon where they were in the old curriculum when they failed.

Independent Studies: "NRS 299: Independent Study Nursing" and "NRS 499: Independent Study Nursing" will be offered, as needed, each semester. "NRS 300: Remediation" 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.

Elective courses "NRS 413: Aging in Today's Society" and "NRS 380: Hospice Concepts and Care" will be offered only as demand requires.

### 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 option are those with a bachelor's degree who want to move at a slower pace than the accelerated BSN and licensed practical nurses who want to become registered nurses. The BSN curriculum is based on concepts and theories of nursing, liberal arts, and the sciences. The nursing process is incorporated throughout the curriculum. Carefully planned laboratory 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. Members of the faculty continue to practice in healthcare settings and participate in research and other scholarly endeavors.

Graduates of the BSN program are prepared to function as providers of care, managers of care, and members of the discipline of nursing. They use critical thinking, communication, and technical skills in providing care to individuals and families. Knowledge is specific and factual and can be applied directly to practice. The practice of BSN graduates occurs in a variety of hospital, clinic, and community settings.

Graduates of the BSN program are awarded the degree of Bachelor of Science in Nursing and are eligible to apply to take the National Council Licensure Examination for Registered Nurses and to continue their nursing education at the master's and doctoral levels.

**Pre-major requirements:** Students may declare pre-nursing (XNRS) as their major if they meet the following criteria: 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 advised 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 BSN

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.

**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 BSN program all applicants must:

- Be admitted to NKU as a degree-seeking student with no academic deficiencies.
- Submit a separate application to the nursing program. The application is available in the nursing office in Albright Health Center 303 or online (<http://healthprofessions.nku.edu>). Mail or fax the completed application to the Department of Nursing. This application is in addition to the university application.
- Have a minimum grade of *C* or higher in "BIO 208/208L: Human Anatomy and Physiology I with Laboratory."
- Have a minimum grade of *C* or higher in "PSY 100: Introduction to Psychology."
- Be eligible to take "CHE 115/115L: Physiological Chemistry with Laboratory."
- Be eligible to take "STA 205: Introduction to Statistical Methods" or "STA 212: Statistics for Business Applications I."
- Have 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 semester credit hours, whichever is higher. GPAs for admission to the BSN program will be calculated using NKU and transfer coursework.
- Have no more than one semester of science course failures in the required science courses for the program in the last 4 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, CHE 102, CHE 115/CHE 115L, CHE 120/120L, CHE 121/121L or equivalent transfer courses.
- Earn grades in nursing support courses of *C* or higher. Support courses include PSY 100, PSY 220, STA 205 or STA 212, INF 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.
- Complete science courses required for admission to nursing within the 8 years immediately prior to the date of beginning the program.

Additionally:

- The ACT is required for those transfer applicants with fewer than 24 semester hours from an accredited institution.
- All applicants transferring from a non-accredited institution are required to take the ACT.
- Applicants whose native language is other than English must demonstrate an established level of English proficiency by taking the Internet-based TOEFL (iBT). See special admission requirements for details.
- 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: Human Anatomy and Physiology II with Laboratory"; "PSY 220: Lifespan Development"; "BIO 126: Human Nutrition"; "CHE 115/115L: Physiological Chemistry"; and either "STA 205: Introduction to Statistical Methods" or "STA 212: Statistics for Business Applications I." A personal inter-

view may be requested by the nursing admission/readmission committee.

- All accepted students must pass a criminal background check before starting nursing classes.

Acceptance into the nursing program is provisional pending successful completion of the criminal background check, TOEFL test, if applicable, as well as completion of the above-listed courses.

Licensed practical nurses are eligible to apply to the BSN program if they have graduated from a practical nursing program and passed the NCLEX-PN within the last 4 years or are actively employed as an LPN. If LPNs are accepted into the BSN program, they must take an independent-study class with a nursing faculty member during their first semester in the nursing program. Credit for "NRS 210L: Development of Clinical Nursing Skills," "NRS 215: Fundamental Concepts of Professional Nursing Practicum," and "NRS 215P: Fundamentals of Professional Nursing Practicum" will be considered. LPNs are encouraged to make an appointment with an academic advisor prior to applying to the BSN 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.
- Maintain the minimum GPA required for progression (see BSN student handbook on Blackboard).
- 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 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.
- **Transfer students:** Students previously enrolled in another NLNAC-accredited program in nursing may be eligible to transfer into the nursing program at NKU. In addition to admission requirements, the following apply to all transfer students:
  - Transfer students are considered on a space-available basis. Eligibility is determined by the nursing Admissions, Progression, Graduation Committee (APG). Students with more than one nursing semester failure are not eligible to apply.
  - 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. 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.

- The last 30 semester hours of the major must be completed at NKU.
- Students transferring to NKU after failing a nursing class at another nursing school will be dismissed from NKU's BSN program if they fail a nursing class at NKU (C or below).
- **Progression:**
  - Students may take the general education support courses required prior to admission to the program. However, students must be admitted to the bachelor's degree nursing program in order to take courses in nursing.
  - 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. Students who began the BSN program prior to the spring of 2011 must maintain the minimum GPA in effect at the time of their entry.
  - Students withdrawing from the nursing program for any reason are requested to have an exit interview with the program director or faculty advisor.
  - Per the Northern Kentucky University Bachelor's Degree Nursing Program policy, 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 BSN program and are ineligible for readmission. A failure is considered a C- or below.
  - If a didactic course has a clinical co-requisite course, both must be repeated concurrently.
  - Transfer students who are admitted and either incurred a nursing failure in their prior nursing program or were dismissed from their prior program due to academic nursing failure are ineligible to repeat ANY failed nursing course and will be dismissed.
  - 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.
- **Evolve<sup>®</sup> Curriculum Support:** All students will participate in the Evolve<sup>®</sup> 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 BSN and BSN 2nd degree programs. A fee attached to selected courses (currently \$100 per semester) 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 BSN program for a single 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 BSN program. The policy and procedures for an *Academic Leave* request are outlined in the BSN 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 BSN program within 8 semesters.
- **Readmission:** Applications 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 re-

quest 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 at least the minimum GPA that was stipulated for progression at the time of his or her initial admission to the BSN program. The faculty member may state that written, specific conditions must be met by the student when recommended for readmission. A student who did not successfully complete the first semester of the nursing program must apply as a new student and meet all requirements listed under "Admission Requirements." (See BSN student handbook.) 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. Students who have been dismissed from the nursing program are not eligible for readmission.

**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 BSN for students admitted fall 2010 and later

Courses in Nursing		Credits
NRS 210L	Development of Clinical Nursing Skills	2
NRS 215	Fundamental Concepts of Professional Nursing Practice	3
NRS 220	Holistic Health Assessment of the Adult	2
NRS 220L	Holistic Health Assessment Laboratory	1
NRS 215P	Fundamentals of Professional Nursing Practicum	2
NRS 250	Introduction to Medical-Surgical Nursing	3
NRS 255	Pathopharmacological Concepts and Principles	4
NRS 250P	Introduction to Medical-Surgical Nursing Practicum	4
NRS 310	Concepts of Community and Public Health Nursing	3
NRS 310P	Concepts of Community Health Nursing Practicum	2
NRS 315	Theories and Concepts for Professional Nursing Practice	2
NRS 320	Principles of Research for Application to Professional Nursing Practice	2
NRS 330	Principles of Psychiatric and Mental Health Nursing	3
NRS 330P	Psychiatric and Mental Health Nursing Practicum	2
NRS 339L	Clinical Reasoning I	1
NRS 350	Intermediate Medical-Surgical Nursing	3
NRS 350P	Intermediate Medical-Surgical Nursing Practicum	2
NRS 360	Principles of Obstetric and Newborn Nursing	3
NRS 360P	Principles of Obstetric and Newborn Nursing Practicum	2
NRS 370	Legal, Ethical, and Professional Issues	3
NRS 415	Principles of Pediatric Nursing	2
NRS 415P	Pediatric Nursing Practicum	2
NRS 420	Concepts and Principles of Leadership Management	3
NRS 439L	Clinical Reasoning II	1
NRS 440P	Nursing Capstone I	2

NRS 450	Advanced Medical-Surgical Nursing	3
NRS 450P	Advanced Medical-Surgical Practicum	2
NRS 465P	Transition to the Professional Practice Role	4
NRS 470P	Nursing Capstone II	1
<b>Credits in Nursing</b>		<b>69</b>
<b>Courses in Other Disciplines</b>		
INF 355	Introduction to Health Informatics*	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
CHE 115 and 115L	Physiological Chemistry with Laboratory*	4
BIO 202/202L	Microbiology for Health Professionals with Laboratory*	4
PSY 100	Introduction to Psychology *	3
STA 205	Introduction to Statistical Methods *	
<b>OR</b>		
STA 212	Statistics for Business Applications I*	3
PSY 220	Lifespan Development*	3
<b>Credits in Other Disciplines</b>		<b>31</b>
<b>TOTAL CREDITS</b>		<b>100</b>
*These courses are prerequisites and co-requisites for other program courses		

#### Traditional BSN for students admitted prior to fall 2010

Students admitted prior to fall 2010 should refer to the catalog for the year in which they were admitted and to the current BSN student handbook. Required courses for students admitted prior to fall 2010 are listed below.

#### Degree Requirements: Traditional BSN for students admitted prior to fall 2010

Courses in Nursing		Credits
NRS 100	Skills Development Lab I	2
NRS 104	Fundamental Medical Surgical Nursing	3
NRS 196	Fundamental Medical Surgical Clinical	1
NRS 105	Pharmacology	2
NRS 204	Intermediate Medical Surgical Nursing 1	4
NRS 296	Intermediate Medical-Surgical Clinical	4
NRS 205	Health Assessment	2
NRS 205L	Health Assessment Lab	1
NRS 206	OB/Newborn Nursing	3
NRS 297	OB/Newborn Nursing Clinical	2
NRS 207	Pediatric Nursing	3
NRS 298	Pediatric Nursing Clinical	2
NRS 304	Intermediate Medical-Surgical II	3
NRS 396	Intermediate Medical-Surgical Clinical II	2
NRS 305	Psychiatric Nursing	3
NRS 397	Psychiatric Nursing Clinical	2
NRS 332	Theories in Nursing	3
NRS 404	Community and Public Health Nursing	3
NRS 496	Community and Public Health Clinical	4
NRS 421	Healthcare Research	3
NRS 406	Nursing Leadership	4
NRS 498	Nursing Leadership Practicum	3
NRS 398L	Role Transition Lab/Seminar	2
NRS 306	Advanced Medical-Surgical	3
NRS 398	Role Transition Practicum	4
NRS 321	Professional Issues	3
<b>Credits in Nursing</b>		<b>71</b>

Required Prerequisite Courses Not Listed on the Major		
BIO 126	Human Nutrition	3
BIO 208/208L	Anatomy and Physiology I with laboratory	4
BIO 209/209L	Anatomy and Physiology II with laboratory	4
CHE 115/115L	Physiological Chemistry with laboratory	4
BIO 202/202L	Microbiology for Health Professionals	4
PSY 100	Introduction to Psychology	3
STA 205	Introduction to Statistical Methods	
	<b>OR</b>	
STA 212	Statistics for Business Applications I	3
PHI 220	Health Care Ethics	3
PSY 220	Lifespan Development	3
<b>Additional Prerequisite Credits</b>		<b>31</b>
<b>TOTAL CREDITS</b>		<b>102</b>

## BSN 2nd Degree Program (Accelerated Bachelor of Science in Nursing)

The Bachelor of Science in Nursing for students who already have a bachelor's degree (ABSBN) 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. The ABSBN program is designed to provide a foundation for higher degree programs in nursing. Faculty members hold a doctoral or master's degree, and many are certified within their individual areas of specialty. Members of the faculty continue to practice in healthcare settings and participate in research and other scholarly endeavors. Graduates of the ABSBN program are awarded the degree of Bachelor of Science in Nursing and are eligible to apply to take the NCLEX-RN exam for licensure as a registered nurse.

The ABSBN program is designed for postbaccalaureate individuals who want to make a career change. The accelerated program is fast-paced and rigorous, incorporating 3 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 ABSBN program are advised to contact an advisor regarding admission requirements. Students admitted to the ABSBN 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 ABSBN 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:

- Be a graduate of an accredited college or university with a bachelor's or higher degree or within 6 months of graduation with a statement from the registrar, chair, or advisor that graduation requirements will be met prior to start of ABSBN classes.
  - Be admitted to NKU as a degree-seeking student with postbaccalaureate status without restrictions.
  - Have a minimum cumulative GPA of 3.00 on a 4.00 scale for the most recent 30 semester credit hours of coursework. GPAs for admission to the ABSBN program will be calculated using NKU and transfer coursework.
  - Complete at least two science prerequisite courses before applying.
  - Submit separate application to the Department of Nursing by February 1 for fall admission.
  - 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.**

- One full year of anatomy and physiology with labs (BIO 208, 208L, BIO 209, 209L).
- Physiological chemistry with a lab (CHE 115, CHE 115L; **OR** CHE 120, 120L and CHE 121, 121L).
- Microbiology for Health Professionals with Laboratory (BIO 202/202L).
- Human Nutrition (BIO 126).
- Human Growth and Development (PSY 220 **OR** EDU 300).
- Introductory Statistics (STA 205 **OR** STA 212).
- Health Care Informatics (INF 355) (required effective fall 2012).
- Complete science courses required for admission to nursing within the 8 years immediately prior to the date of beginning the program.
- Applicants whose native language is other than English must demonstrate an established level of English proficiency by taking the Internet-based TOEFL (iBT). 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 4 years of the start of the program makes an applicant ineligible for the ABSBN program.
- The Kentucky Board of Nursing has regulations regarding previous convictions that must be addressed prior to sitting for the licensure examination. All felony and misdemeanor 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 BSN and BSN 2nd degree programs. A fee will be assessed in selected ABSBN courses for this testing and support program.

### Progression:

- Students admitted to the ABSBN program are subject to the program requirements of the catalog in effect at the time of entry.
- Upon matriculation into the ABSBN program, students must take the last 30 semester hours from NKU.
- The program of study must be completed within 2 years of the first date of entering the program.
- 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.

### Degree Requirements: Accelerated BS in Nursing

Courses		Credits
NRS 210L	Development of Clinical Nursing Skills	2
NRS 215	Fundamental Concepts of Professional Nursing Practice	3
NRS 220	Holistic Health Assessment of the Adult	2
NRS 220L	Holistic Health Assessment Laboratory	1
NRS 215P	Fundamental of Professional Nursing Practicum	2
NRS 250	Introduction to Medical-Surgical Nursing	3
NRS 255	Pathopharmacological Concepts and Principles	4
NRS 250P	Introduction to Medical-Surgical Nursing Practicum	4
NRS 310	Concepts of Community and Public Health Nursing	3
NRS 310P	Concepts of Community Health Nursing Practicum	2
NRS 315	Theories and Concepts for Professional Nursing Practice	2
NRS 320	Principles of Research for Application to Professional Nursing Practice	2
NRS 330	Principles of Psychiatric and Mental Health Nursing	3
NRS 330P	Psychiatric and Mental Health Nursing Practicum	2
NRS 339L	Clinical Reasoning I	1
NRS 350	Intermediate Medical-Surgical Nursing	3
NRS 350P	Intermediate Medical-Surgical Nursing Practicum	2
NRS 360	Principles of Obstetric and Newborn Nursing	3
NRS 360P	Principles of Obstetric and Newborn Nursing Practicum	2
NRS 370	Legal, Ethical, and Professional Issues	3
NRS 415	Principles of Pediatric Nursing	2
NRS 415P	Pediatric Nursing Practicum	2
NRS 420	Concepts and Principles of Leadership Management	3
NRS 439L	Clinical Reasoning II	1
NRS 440P	Nursing Capstone I	2
NRS 450	Advanced Medical-Surgical Nursing	3
NRS 450P	Advanced Medical-Surgical Practicum	2
NRS 465P	Transition to the Professional Practice Role	4
NRS 470P	Nursing Capstone II	1
<b>TOTAL CREDITS</b>		<b>69</b>

### Bachelor of Science for Registered Nurses (RN to BSN)

**You should know:** The RN to BSN is housed in a different department from the BSN but relies on the same faculty and has the same state approval and national accreditation.

**Location:** Albright Health Center 206

**Telephone:** 859-572-7964

**Fax:** 859-572-1934

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

**Web Address:** <http://advancednursing.nku.edu>

**Program Director:** Ann Keller

**Other Key Personnel:**

Advisor: Sarah E. Dill

The Registered Nurse to Bachelor of Science in Nursing (RN to BSN) provides career mobility for the registered nurse. The curriculum of courses numbered 300 or above 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 degree of Bachelor of Science in Nursing (RN to BSN) is designed to provide a foundation for higher degree programs in nursing.

**Special opportunities for our students:** The online RN to BSN program provides career mobility for RNs 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.

**Pre-major requirements:** Students enrolled in courses at NKU preparing for admission to the online RN to BSN program should declare as their major pre-baccalaureate nursing distance (ZXNB). 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 (ZNRB).

**Admission requirements:** To be admitted to the program, an applicant must:

- Be admitted to NKU as a degree-seeking student with no academic deficiencies.
- Submit a separate application (<http://advancednursing.nku.edu>) to the RN to BSN program. Mail or fax the completed application to the Department of Advanced Nursing Studies. 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 grade of at least a 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, 208L, BIO 209, 209L).
- Microbiology for Health Professionals with Laboratory (BIO 202/202L).
- Introduction to Psychology (PSY 100)
- Human Growth and Development (PSY 220 OR EDU 300).
- Introductory Statistics (STA 205 OR STA 212).
- Health Care Ethics (PHI 220 or PHI 200).
- Hold current, unrestricted RN licensure. Proof of Ohio and Kentucky licensure is mandatory prior to the first day of any clinical course.

**NOTE:** Acceptance into the nursing program is provisional pending successful completion of the criminal background check and proof of unrestricted RN licensure.

**Admitted students must:**

- Submit the following paperwork:
  - Proof of “CPR for Health Providers” certification in effect for the upcoming academic year.
  - Immunization records and completed health forms.
  - Proof of health insurance coverage.
- All records must be submitted together before the posted deadline.
- Maintain the minimum GPA required for progression (see RN to BSN 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 RN to BSN 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 co-requisite course, both must be repeated concurrently.

**You should also know:** The RN to BSN curriculum was revised effective fall 2011. The program is only offered in an online format. Even the application for admission and the registration process are handled online.

Students entering the RN to BSN program may have transfer credits that will satisfy some of the requirements of the program.

**Degree Requirements: RN to BSN program**

Courses in Nursing		Credits
NRP 316L	Evaluation of Clinical Performance	6
NRP 317L	Decision Making in Nursing	5
NRP 401	Theories and Concepts of Professional Nursing	2
NRP 410	Nursing Research	3
NRP 411	Holistic Nursing Assessment	2
NRP 413L	Nursing Assessment Laboratory	1
NRP 415L	Nursing Assessment Practicum	2
NRP 434	Theories in Nursing	3
NRP 435	Nursing in the Community	3
NRP 435L	Nursing in the Community Practicum	6
Elective at the 300 level or above (if needed)		3
NRP 441	Nursing Leadership	3
NRP 441L	Nursing Leadership Practicum	6
<b>Credits in Nursing</b>		<b>45</b>
Courses in Other Disciplines		
ENG 101	College Writing	3
ENG 291	Advanced College Writing	3
General Education: Oral Communication		3
General Education: Cultural Pluralism		3
General Education: Individual and Society		3
General Education: Culture and Creativity		6
BIO 208/208L	Anatomy and Physiology I with laboratory	4
BIO 209/209L	Anatomy and Physiology II with laboratory	4
BIO 202/202L	Microbiology for Health Professionals	4
PSY 100	Introduction to Psychology	3
STA 205	Introduction to Statistical Methods	3
<b>OR</b>		
STA 212	Statistics for Business Applications I	3
PSY 220	Lifespan Development	3
PHI 200	Ethics	3
<b>OR</b>		
PHI 220	Health Care Ethics	3
<b>Credits in Other Disciplines</b>		<b>45</b>
<b>TOTAL CREDITS</b>		<b>90</b>

# COLLEGE OF INFORMATICS

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**Location:** Griffin Hall 500

**Telephone:** 859-572-5668

**Fax:** 859-572-6176

**E-mail Address:** [informatics@nku.edu](mailto:informatics@nku.edu)

**Web Address:** <http://informatics.nku.edu>

**Dean:** Kevin Kirby

**Other Key Personnel:**

Associate Dean: Gaut Ragsdale

Business Officer: Pam Wagar

Director of Creative Technology: Dan Koabel

Executive Assistant: L. Sue Murphy

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 nine Bachelor's degrees, five Master's degrees, and a variety of certificates, both graduate and undergraduate. Several of our programs are available in 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 have a strong sense of civic engagement. Our Advising Center has a staff of five to help students advance smoothly through their course of studies here.

Our home is NKU's newly opened 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 interdisciplinary. 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

**E-mail Address:** [Informaticsadvising@nku.edu](mailto:Informaticsadvising@nku.edu)

**Web Address:** <http://informatics.nku.edu/advising/>

**Faculty:**

Business Informatics: Jim Hughes [hughesja@nku.edu](mailto:hughesja@nku.edu)

Communication: Carrie Harris [harrisc13@nku.edu](mailto:harrisc13@nku.edu)

Computer Science: Rebecca Walker [walkerr1@nku.edu](mailto:walkerr1@nku.edu)

All College: Jenny Wagner [wagnerjenn@nku.edu](mailto:wagnerjenn@nku.edu)

Welcome to the College of Informatics Advising Center. Our offices are located in Griffin Hall, room 404.

It is our mission to advise, teach, assist and empower you. Our advisors accomplish this by assisting (not directing) 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's 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 with your specific questions.

We're excited that you've decided to pursue your education with us. We know you'll find many wonderful and unique learning opportunities in the College of Informatics.

## Departments

Business Informatics

Communication

Computer Science

## Accreditations

Business informatics is accredited by AACSB-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

**E-mail Address:** [cai@nku.edu](mailto:cai@nku.edu)

**Web Address:** <http://cai.nku.edu/>

**Director:** Tim Ferguson

The Center for Applied Informatics (CAI), within NKU's College of Informatics, provides students extensive access to internships, cooperatives, and experiential learning in 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 award-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 world-wide. At any given time, our students, faculty, and staff are engaging a variety of applied research projects, comprised 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

**E-mail Address:** bis@nku.edu

**Web Address:** <http://bis.nku.edu>

**Department Chair:** Ben Martz

**Other Key Personnel:**

MBI Program Director: Vijay Raghavan

MHI Program Director: Hasan Sapci

MHI Program Coordinator: Pam Atkinson

Department Coordinator: Marilyn McGinley

Academic Advisor: Jim Hughes

Library Informatics Program Coordinator: Leslie Hammann

**Full-Time Faculty:** Frank Braun, Teuta Cata, Laura Cole, Sudesh Duggal, Kevin Gallagher, Samuel Goh, Jerry Gonnella, Gary Hackbarth, Leslie Hammann, David Manning, Ben Martz, Vijay Raghavan, Toru Sakaguchi, Hasan Sapci, Xiaoni Zhang

## Undergraduate Programs:

### Majors:

Bachelor of Science

Business Informatics

Library Informatics

### Minor:

Business 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 two complementary contexts for the study and application of information technology: business 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 the top jobs and start their careers in business, government institutions, educational organizations, health-care facilities, and other information based organizations.

Systems careers (for example, business analysts) are projected to be some of the fastest growing careers between 2008 and 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.myinterfase.com/nku/student>).

**Special admission requirements:** The BIS degree is an AACSB-accredited degree. 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

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 (PACE) format.

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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

### Degree Requirements: B.S. – Business Informatics

Selective Admission Courses		Credits
ENG 101	College Writing	3
MAT 114	Finite Mathematics* <i>Prerequisite: MAT 109 or ACT &gt; 23</i>	3
CMST 101	Public Speaking	3
ACC 200	Principles of Accounting I* <i>Prerequisite: INF 101 Computer Literacy and Informatics</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
<b>Credits for Selective Admission</b>		<b>30</b>
Core Courses in Business		
MAT 109	Algebra for College Students	3
Select one course from the following:		
STA 213	Statistics for Business Applications II	3
MAT 112	Calculus for Business Applications	
BIS 380	Quantitative Analysis with Excel	
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 305	Principles of Marketing	3
<b>Credits for Business Core</b>		<b>30</b>
<b>Courses in Business Informatics</b>		
INF 110	Business Programming	3
INF 282	Introduction to Databases	3
INF 284	Introduction to Networks and Data Communication	3
INF 286	Introduction to Web Development	3
BIS 305	Advanced Business Programming	3
BIS 310	Information Systems Analysis	3
BIS 330	IT Project Management	3
BIS 485	Strategic Information Systems Management [Capstone]	3
Select three courses from the following:		
BIS 380	Quantitative Analysis with Excel	
BIS 382	Principles of Information Security: <i>Prerequisite: BIS 300 Management Information Systems</i>	
BIS 394	Topics: Information Systems	
BIS 402	Programming for E-Commerce	
BIS 410	Advanced Analysis and Design	
BIS 420	Knowledge Management and Enterprise Applications	9
BIS 430	Workflow Design and Management	
BIS 435	Database Management Systems	
BIS 440	Global Information Technology Management	
BIS 494	Topics: Information Systems	
<b>Credits in Business Informatics</b>		<b>33</b>
<b>Additional Prerequisite Credits</b>		<b>3-6</b>
<b>TOTAL CREDITS</b>		<b>96-99</b>

### Bachelor of Science with a major in Library Informatics

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. The Bachelor of Science in Library Informatics can be completed in a fully online format.

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.
- **Assessing 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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

### Degree Requirements: B.S. – Library Informatics

Courses	Credits	
LIN 300	Information in Our Society	3
LIN 301	Introduction to Meta Information Systems	3
LIN 302	Digital Searching Interfaces	3
LIN 303	Critical Reading	3
INF 282	Introduction to Databases	3
LIN 400	Current Trends in Information Studies	3
LIN 496	Senior Practicum	3
LIN 175	Information Literacy	3
LIN 414	Advanced Information Literacy Skills	3
INF 101	Computer Literacy and Informatics	3
BIS 300	Management Information Systems * <i>*Prerequisites: STA 205 Introduction to Statistical Methods OR STA 212 Statistics for Business Applications I</i>	3
Select three courses from the following:		
CIT 247	Networking Fundamentals	
INF 186	Media Web Coding	
INF 284	Introduction to Networks and Data Communication	
LIN 305	Government Information	
LIN 394	Topics	9
LIN 405	Intellectual Property and Information Rights	
LIN 420	Management in Library and Information Centers	
PHI 210	Ethics of Information Technology	
JOU 440	Media Ethics	
BIS 410	Advanced Analysis and Design	
Information Technology/Communication (Select 9 credit hours at the 300 level or above)		9
Psychology/Sociology (Select 6 credit hours at the 300 level or above)		6
Organizational Studies/Research Methods (Select 9 credit hours at the 300 level or above)		9
<b>Program Credits</b>		<b>66</b>
<b>Additional Prerequisite Credits</b>		<b>3</b>
<b>TOTAL CREDITS</b>		<b>69</b>

Students are responsible for meeting all prerequisites set forth by the department offering the course. Students should consult their academic advisors for approval of elective requirements at the 300 level and above.

### Business Informatics Minor

#### Minor in Business Informatics

The department offers a minor in business informatics that consists of 21 semester hours (9 hours required, 3 credits of electives at the 100 level and above, and 9 credits of electives at the 300 level and above).

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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Business Informatics		Credits
INF 110	Business Programming	3
INF 282	Introduction to Databases	3
BIS 300	Management Information Systems* <i>*Prerequisite: STA 212 Statistics for Business Applications I</i>	3
Select one course from the following:		
INF 186	Media Web Coding	3
INF 284	Introduction to Networks and Data Communication	
INF 286	Introduction to Web Development	
Select 9 credits from the following:		
BIS 305	Advanced Business Programming	9
BIS 310	Information Systems Analysis	
BIS 330	IT Project Management	
BIS 380	Quantitative Analysis with Excel	
BIS 382	Principals of Information Security	
BIS 402	Programming for E-Commerce	
BIS 410	Advanced Analysis and Design	
BIS 420	Knowledge Management and Enterprise Applications	
BIS 430	Workflow Design and Management	
BIS 435	Database Management Systems	
BIS 440	Global Information Technology Management	
<b>Program Credits</b>		<b>21</b>
<b>Additional Prerequisite Credits</b>		<b>3</b>
<b>TOTAL CREDITS</b>		<b>24</b>

## Business Informatics Certificates

### Certificate in Business Informatics

The Business Informatics Certificate is available to current students and consists of 12 credits. It is available in a fully online format.

Requirements for Certificate: Business Informatics		Credits
INF 110	Business Programming	3
INF 282	Introduction to Databases	3
BIS 300	Management Information Systems	3
BIS 330	IT Project Management	3
<b>TOTAL CREDITS</b>		<b>12</b>

### Postbaccalaureate Certificate in Information Systems Development

This postbaccalaureate certificate is available to students with an undergraduate degree and consists of 18 semester hours.

Requirements for Postbaccalaureate Certificate: Information Systems Development		Credits
INF 110	Business Programming	3
INF 282	Introduction to Databases	3
INF 284	Introduction to Networks and Data Communication	3
BIS 305	Advanced Business Programming	3
BIS 310	Information Systems Analysis	3
BIS 402	Programming for E-Commerce	3
<b>TOTAL CREDITS</b>		<b>18</b>

### Postbaccalaureate Certificate in Information Systems Management

This postbaccalaureate certificate is available to students with an undergraduate degree and consists of 15 semester hours required.

If a particular course has a prerequisite that is not listed as part of the certificate requirements, then the prerequisite is given in italics below the course for which it is a prerequisite, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for Postbaccalaureate Certificate: Information Systems Management		Credits
INF 110	Business Programming	3
BIS 300	Management Information Systems * <i>*Prerequisite: STA 212 Statistics for Business Applications I</i>	3
BIS 330	IT Project Management	3
BIS 440	Global Information Technology Management	3
BIS 485	Strategic Information Systems Management	3
<b>Program Credits</b>		<b>15</b>
<b>Additional Prerequisite Credits</b>		<b>3</b>
<b>TOTAL CREDITS</b>		<b>18</b>

# DEPARTMENT OF COMMUNICATION

**Location:** Griffin Hall 400

**Telephone:** 859-572-5435

**Fax:** 859-572-5398

**E-mail Address:** communication@nku.edu

**Web Address:** http://informatics.nku.edu/com/

**Department Chair:**

**Other Key Personnel:**

Vice Chair : Zachary Hart

Undergraduate Studies Director and NorseMedia Director: Christopher Strobel

Graduate Studies Director: Gregory De Blasio

General Education Director: Yasue Kuwahara

Student Media Adviser: Jacque Day

Department Academic Coordinator: Randy Little

Academic Assistant: Christa Kilvington

Academic Advisor: Mark Miller

**Full-Time Faculty:** Wesley Akers, Matthew Baker, Tony Chowning, Mary Cupito, Jacque Day, Michele Day, Gregory De Blasio, Sara Drabik, John Gibson, Zachary Hart, Renee Human, Bavand Karim, Stephanie Klatzke, Yasue Kuwahara, Mark Leeman, Rachel Lyon, Jimmie Manning, Lisa McKale, Jacqueline McNally, Russell Proctor, Vicki Ragsdale, Bradford Scharlott, J. Michael Skaggs, Karen Slawter, Andrea South, Christopher Strobel, Penelope Summers, Ann Taylor, David Thomson, Steven Weiss, Stephen Yungbluth, Nicholas Zeman\_

**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

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. This program also is offered in a fully online format.

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

Courses	Credits
CMST 220 Interpersonal Communication	3
CMST 230 Small Group Communication	3
CMST 300 Research Methods in Communication Studies	3
CMST 303 Organizational Communication	3
CMST 310 Argumentation	3
OR	
CMST 340 Strategies of Persuasion	3
OR	
CMST 410 Rhetorical Theories	3
CMST 355 Culture and Communication	
CMST 370 Advanced Public Speaking	3
CMST 430 Communication Theories	3
Any 200-400 level CMST course	3
Any 200-400 level CMST course	3
Any CMST Communication Studies, EMB Electronic Media Broadcasting, JOU Journalism, MIN Media Informatics, POP Popular Culture, PRE Public Relations, or 400-500-level COM course not used as a general education course	3
Professional Skills Courses – select two of the following courses:	
EMB 265 Broadcast News Writing	6
ENG 340 Business Writing	
ENG 347 Technical Writing	
ENG 349 Web Writing for the Professions	
JOU 220 News Writing	
INF 101 Computer Literacy and Informatics	
INF 186 Media Web Coding	

MIN 221	Visual Fundamentals of Digital Media
MIN 240	Introduction to Interactive Media
JOU 321	Digital Publishing
<b>TOTAL CREDITS</b>	
<b>39</b>	
These courses may not be used to complete a minor, area of concentration or second major requirements. Other courses may be substituted if approved by your advisor.	

### 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 encouraging students to become electronic storytellers. Students will develop 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 48 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

Courses	Credits
EMB 110	Introduction to Mass Media 3
EMB 140	Introduction to Media Aesthetics 3
INF 186	Media Web Coding 3
EMB 210	Introduction to Video: Single Camera Production 3
EMB 215	Introduction to Audio Production 3
EMB 260	Writing for the Media <b>OR</b> 3
EMB 265	Broadcast News Writing
EMB 396	Internship: Electronic Media and Broadcasting <b>OR</b> 3
EMB 397	Projects
EMB 400	Media Criticism <b>OR</b> 3
EMB 435	Media Studies
Conceptual Studies Courses – select two of the following courses:	
CMST 220	Interpersonal Communication
CMST 303	Organizational Communication
CMST 430	Communication Theories
PSY 304	Consumer Psychology
6	
Practical Courses – select two of the following courses:	
EMB 305	Multicamera Video Production
EMB 320	Advanced Sound Production
EMB 421	Advanced Narrative Production
EMB 422	Advanced Digital Video Editing
EMB 423	Documentary Production
6	
Business/Law/Ethics Courses – select two of the following courses:	
EMB 307	Broadcast Programming
EMB 313	Media Sales, Advertising, and Promotion
EMB 460	Media Management
JOU 385	Mass Communication Law
JOU 440	Media Ethics
6	
Any EMB, MIN, or POP 300-400-level course	3
Any College of Informatics (BIS, CIT, CMST, CSC, EMB, INF, JOU, LIN, MIN, POP, PRE) course	3
<b>TOTAL CREDITS</b>	
<b>48</b>	

### 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

Courses	Credits
JOU 110	Introduction to Mass Communication 3
JOU 220	News Writing 3
JOU 230	News Reporting and Writing 3
JOU 296	Student Media Workshop 3
JOU 350	Media Skills 3
JOU 346	Copy Editing and Design 3
JOU 385	Mass Communication Law 3
JOU 440	Media Ethics 3
Experiential Courses – select 3 credit hours from the following courses:	
JOU 297	Advanced Student Media Workshop (1-3)
JOU 396	Internship (3 credits)
CEP 300	Cooperative Education (1-3 credits)
3	
Select four courses from the following:	
JOU 321	Digital Publishing
JOU 325	Photojournalism
JOU 330	Public Affairs Reporting
JOU 331	Specialty Reporting
JOU 340	Feature Writing
JOU 360	Interviewing
JOU 370	Principles of Advertising
JOU 374	Digital Age Advertising Problems and Policies
JOU 394	Special Topics in Journalism
JOU 421	Mass Communication History
JOU 492	Mass Communication Research Methods
JOU 499	Independent Study: Journalism
12	
<b>TOTAL CREDITS</b>	
<b>39</b>	

### 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

Courses		Credits	
EMB 140	Introduction to Media Aesthetics	3	
INF 120	Elementary Programming	3	
INF 186	Media Web Coding	3	
MIN 221	Visual Fundamentals of Digital Media	3	
MIN 240	Introduction to Interactive Media	3	
MIN 252	Non-Linear Interactive Storytelling	3	
MIN 345	Introduction to 3D Modeling	3	
MIN 352	Digital Media Projects	3	
MIN 391	Impact of Computer Games and Virtual Worlds	3	
MIN 420	Business of Media Informatics	3	
JOU 440	Media Ethics		
MIN 452	Advanced Digital Media Projects	3	
MIN 396	Internship: Media Informatics		
Select three courses from the following. Courses may come from different categories.			
<i>Web/Mobile</i>			
INF 260	Object-Oriented Programming I	9	
INF 282	Introduction to Databases		
INF 284	Introduction to Networks and Data Communication		
INF 286	Introduction to Web Development		
INF 345	Wireless Commerce Technology		
MIN 381	Computer-Mediated Communication		
MIN 394	Topics: Media Informatics (as approved by advisor)		
MIN 496	Senior Practicum		
<i>2D</i>			
ART 331	Digital Design		
ARTM 394	Special Topics: New Media (as approved by advisor)		
MIN 340	Media Scripting for Interactivity		
MIN 381	Computer-Mediated Communication		
MIN 394	Topics: Media Informatics (as approved by advisor)		
MIN 440	Advanced Media Interactivity		
MIN 496	Senior Practicum		
<i>3D</i>			
ART 331	Digital Design		
ARTM 394	Special Topics: New Media (as approved by advisor)		
MIN 394	Topics: Media Informatics (as approved by advisor)		
MIN 445	Intermediate 3D Modeling and Animation		
MIN 490	Advanced 3D Animation and Gaming		
MIN 496	Senior Practicum		
Any College of Informatics course (BIS, CIT, CMST, CSC, EMB, INF, JOU, LIN, MIN, POP, PRE)		3	
<b>TOTAL CREDITS</b>		<b>45</b>	

### 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

Courses		Credits
JOU 110	Introduction to Mass Communication	3
EMB 100	Media Literacy	
JOU 220	News Writing	3
EMB 265	Broadcast News Writing	
CMST 220	Interpersonal Communication	3
CMST 303	Organizational Communication	3
PRE 375	Principles of Public Relations	3
JOU 385	Mass Communication Law	3
PRE 400	Public Relations Planning and Account Management	3
CMST 340	Strategies of Persuasion	3
JOU 370	Principles of Advertising	
PRE 376	Public Relations Writing	3
Select one course from the following:		
JOU 321	Digital Publishing	3
PRE 410	Electronic Public Relations	
CMST 370	Advanced Public Speaking	
PRE 385	Public Relations Research Methods	3
JOU 492	Mass Communication Research Methods	
CMST 300	Research Methods in Communication Studies	3
PRE 377	Public Relations Case Studies and Campaigns	
PRE 394	Topics in Public Relations	3
Any 300- or 400-level elective in CMST, EMB, JOU, MIN or POP		
Applied Experiential Credit from PRE 396 Internship		3
PRE 499	Independent Study in Public Relations	
<b>TOTAL CREDITS</b>		<b>42</b>

## Communication Minors

### Minor in Communication Studies

The minor in communication studies requires 21 credits 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 better 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

Requirements for Minor: Electronic Media and Broadcasting		Credits
EMB 110	Introduction to Mass Media	3
EMB 140	Introduction to Media Aesthetics	3
INF 186	Media Web Coding	3
EMB 210	Introduction to Video: Single Camera Production	3
EMB 215	Introduction to Audio Production	3
Any 300 or 400 level EMB course		3
Any 300 or 400 level EMB course		3
<b>TOTAL CREDITS</b>		<b>21</b>
EMB minors must earn a grade of <i>C</i> or better in all courses for the minor.		

### Minor in Journalism

Requirements for Minor: Journalism		Credits
JOU 110	Introduction to Mass Communication	3
JOU 220	News Writing	3
JOU 230	News Reporting and Writing	3
JOU 385	Mass Communication Law	3
JOU 440	Media Ethics	3
Any 300 or 400 level JOU course		3
Any 300 or 400 level JOU course		3
<b>TOTAL CREDITS</b>		<b>21</b>
JOJ minors must earn a grade of <i>C</i> or above or a GPA of at least 2.50 or above in all courses for the minor.		

### Minor in Media Informatics

Requirements for Minor: Media Informatics		Credits
INF 186	Media Web Coding	3
MIN 221	Visual Fundamentals of Digital Media	3
MIN 240	Introduction to Interactive Media	3
MIN 345	Introduction 3D Modeling	3
MIN 352	Digital Media Projects	3
Select two of the following courses:		
MIN 340	Media Scripting for Interactivity	6
MIN 381	Computer-Mediated Communication	
MIN 391	Impact of Computer Games and Virtual Worlds	
MIN 440	Advanced Media Interactivity	
MIN 445	Intermediate 3D Modeling and Animation	
MIN 452	Advanced Digital Media Projects	
MIN 490	Advanced 3D Animation and Gaming	
<b>TOTAL CREDITS</b>		<b>21</b>

# DEPARTMENT OF COMPUTER SCIENCE

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**Location:** Griffin Hall 400

**Telephone:** 859-572-6930

**Web Address:** <http://cs.nku.edu>

**Advising Information:** <http://informatics.nku.edu/advising>

**Department Chair:** Jeff Ward (Interim)

**Other Key Personnel:**

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: Connie Eblin

**Full-Time Faculty:** Alina Campan, Scot Cunningham, Maureen Doyle, Richard Fox, Charles Frank, Wei Hao, Yi Hu, Hetal Jasani, Gary Newell, Marius Truta, James Walden, Hongmei Wang, Jeff Ward

**Undergraduate Programs:**

**Majors:**

Bachelor of Science

Computer Information Technology

Computer Science

**Minors:**

Computer Information Technology

Computer Forensics

Computer Science

Information Security

Neuroscience (see interdisciplinary section of catalog)

**Undergraduate Certificates:**

Software Development

Geographic Information Systems (GIS) (see interdisciplinary section of catalog)

**Thinking about the discipline:** From tiny smart phones to vast social networks, computing continues to change how we live. 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*. Students with degrees in computer science often become software engineers; students with degrees in computer information technology often run large networks or complex websites. These fields are not only exciting but are also in great demand. The Bureau of Labor Statistics expects software engineering to experience "much faster than average growth" through 2018, 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 app development and cyber security, two key areas featured in NKU's computing programs.

**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 a team 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. Informatics, the student chapter of the Association for Computing Machinery, 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 math ACT score of at least 22 for computer information technology majors and a math ACT score of at least 23 for computer 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.

## Computer Science Majors

### Bachelor of Science with a major in Computer Information Technology

A major in computer information technology requires between 51 and 57 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, 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, non-traditional format for adult learners through PACE, the Program for Adult Centered Education.

### Degree Requirements: B.S. – Computer Information Technology

Core Courses in Informatics		Credits
INF 120	Elementary Programming (or placement*)	0-3
INF 282	Introduction to Databases	3
INF 286	Introduction to Web Development (or placement*)	3
<b>Core Credits in Informatics</b>		<b>6-9</b>
Core Courses in Computer Information Technology		
CIT 130	Information Technology Fundamentals	3
CIT 247	Networking Fundamentals	3
CIT 271	Windows Administration	3
CIT 371	Unix Systems	3
CIT 383	Scripting I	3
<b>Core Credits in Computer Information Technology</b>		<b>15</b>
Core Courses in Other Disciplines		
MAT 109	Algebra for College Students (or placement**)	0-3
MAT 185	Introductory Discrete Mathematics	3
PHI 210	Ethics of Information Technology	3
ENG 347	Technical Writing	3
<b>Core Credits in Other Disciplines</b>		<b>9-12</b>
<b>TOTAL CORE CREDITS</b>		<b>30-36</b>
*Students who have prior experience in computer programming or web development, but who have no college-level coursework in these subjects, may elect to take the respective competency tests in these subjects. Students who pass these tests will not be required to take INF 120 Elementary Programming, INF 286 Introduction to Web Development respectively.		
**Students who have a math ACT score of at least 23 or a math SAT score of at least 540 are not required to take MAT 109.		

<b>Network / Security Track</b>		<b>Credits</b>
CIT 380	Securing Computer Systems	3
CIT 447	Network Design and Troubleshooting	3
CIT 470	Advanced Network and System Administration	3
CIT 484	Network Security	3
Three additional CIT courses at the 300 or 400 level not counted above		9
<b>TOTAL TRACK CREDITS</b>		<b>21</b>
<b>Total Core Credits</b>		<b>30-36</b>
<b>TOTAL CREDITS</b>		<b>51-57</b>

<b>Database / Web Track</b>		<b>Credits</b>
MIN 221	Visual Design for Digital Media	3
INF 260	Object-Oriented Programming I	3
CSC 360	Object-Oriented Programming II	3
<b>OR</b>		
CIT 483	Scripting II	3
CSC 301	Web Programming	3
CIT 436	Web Server Administration	3
CIT 472	Database Server Administration	3
CSC 456	Advanced Web Application Development	3
<b>OR</b>		
One additional 300- or 400-level CIT course		
<b>TOTAL TRACK CREDITS</b>		<b>21</b>
<b>Total Core Credits</b>		<b>30-36</b>
<b>TOTAL CREDITS</b>		<b>51-57</b>

**Bachelor of Science with a major in Computer Science**

A major in computer science requires between 60 and 69 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, which requires only two additional mathematics courses numbered 110 or above.

**Degree Requirements: B.S. – Computer Science**

<b>Courses in Informatics</b>		<b>Credits</b>
INF 120	Elementary Programming (or placement*)	0-3
INF 260	Object-Oriented Programming I	3
INF 282	Introduction to Databases	3
INF 284	Introduction to Networks and Data Communication	3
<b>OR</b>		
CIT 247	Networking Fundamentals	3
INF 286	Introduction to Web Development (or placement*)	3
<b>Credits in Informatics</b>		<b>12-15</b>
<b>Courses in Computer Science</b>		
CSC 360	Object-Oriented Programming II	3
CSC 362	Computer Systems	3
CSC 364	Data Structures and Algorithms	3

CSC 402	Advanced Programming Methods	3
CSC 439	Software Testing and Maintenance	3
CSC 440	Software Engineering	3
CSC 460	Operating Systems	3
CSC 485	Theory of Computation	3
One CSC course at the 300 or 400 level not included above		3
Two CSC courses at the 400 level not included above		6
<b>Credits in Computer Science</b>		<b>33</b>
<b>Courses in Other Disciplines</b>		
MAT 109	Algebra for College Students (or placement**)	0-3
MAT 119	Pre-Calculus Mathematics (or placement***)	0-3
MAT 128	Calculus A	3
MAT 227	Calculus B	3
MAT 228	Calculus C	3
STA 250	Probability and Statistics I	3
MAT 385	Discrete Mathematics	3
<b>Credits in Other Disciplines</b>		<b>15-21</b>
<b>TOTAL CREDITS</b>		<b>60-69</b>
*Students who have prior experience in computer programming or web development, but who have no college-level coursework in these subjects, may elect to take the respective competency tests in these subjects. Students who pass these tests will not be required to take INF 120 Elementary Programming, INF 286 Introduction to Web Development respectively.		
**Students who have a math ACT score of at least 23 or a math SAT score of at least 540 are not required to take MAT 109.		
***Students who have a math ACT score of at least 25 or a math SAT score of at least 570 are not required to take MAT 119.		

**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 between 18 and 24 hours of coursework, depending on whether a student "places out" of selected courses.

<b>Requirements for Minor: Information Technology</b>		<b>Credits</b>
MAT 109	Algebra for College Students (or placement*)	0-3
INF 120	Elementary Programming (or placement**)	0-3
CIT 130	Information Technology Fundamentals	3
CIT 247	Networking Fundamentals	3
CIT 271	Windows Administration	3
<b>OR</b>		
CIT 371	Unix Systems	3
One additional CIT course at the 300 or 400 level		3
6 credit hours of INF, CIT, or CSC courses not counted above		6
<b>TOTAL CREDITS</b>		<b>18-24</b>
*Students who have a math ACT score of at least 23 or a math SAT score of at least 540 are not required to take MAT 109.		
**Students who have prior experience in computer programming or web development, but who have no college-level coursework in these subjects, may elect to take the respective competency tests in these subjects. Students who pass these tests will not be required to take INF 120 Elementary Programming, INF 286 Introduction to Web Development respectively.		

### 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 33 credit hours, depending on whether a student "places out" of selected courses. 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.

Requirements for Minor: Computer Forensics		Credits
MAT 109	Algebra for College Students (or placement*)	0-3
INF 120	Elementary Programming (or placement**)	0-3
CIT 130	Information Technology Fundamentals	3
CIT 247	Networking Fundamentals	3
CIT 371	Unix Systems	3
CIT 380	Securing Computer Systems	3
CIT 430	Computer Forensics	3
JUS 101	Introduction to Criminal Justice	3
JUS 204	Criminal Investigation	3
JUS 320	Advanced Crime Scene Technology and Criminalistics	3
JUS 404	Evidence Preparation and Courtroom Testimony	3
<b>TOTAL CREDITS</b>		<b>27-33</b>
*Students who have a math ACT score of at least 23 or a math SAT score of at least 540 are not required to take MAT 109.		
**Students who have prior experience in computer programming or web development, but who have no college-level coursework in these subjects, may elect to take the respective competency tests in these subjects. Students who pass these tests will not be required to take INF 120 Elementary Programming, INF 286 Introduction to Web Development respectively..		

### Minor in Computer Science

The minor in computer science emphasizes the fundamentals of software development, and requires between 15 and 24 hours of coursework, depending on whether a student "places out" of selected courses. 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		Credits
MAT 109	Algebra for College Students (or placement*)	0-3
MAT 119	Pre-Calculus Mathematics (or placement**)	0-3
INF 120	Elementary Programming (or placement***)	0-3
INF 260	Object-Oriented Programming I	3
CSC 360	Object-Oriented Programming II	3
CSC 362	Computer Systems	3
CSC 364	OR Data Structures and Algorithms	3
6 credit hours of CSC courses not counted above		6
<b>TOTAL CREDITS</b>		<b>15-24</b>

\*Students who have a math ACT score of at least 23 or a math SAT score of at least 540 are not required to take MAT 109.  
 \*\*Students who have a math ACT score of at least 25 or a math SAT score of at least 570 are not required to take MAT 119.  
 \*\*\*Students who have prior experience in computer programming or web development, but who have no college-level coursework in these subjects, may elect to take the respective competency tests in these subjects. Students who pass these tests will not be required to take INF 120 Elementary Programming, INF 286 Introduction to Web Development respectively.

### 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 33 credit hours, depending on whether a student "places out" of selected courses. This minor is particularly well suited for students majoring in either computer information technology or business informatics.

Requirements for Minor: Information Security		Credits
MAT 109	Algebra for College Students (or placement*)	0-3
INF 120	Elementary Programming (or placement**)	0-3
CIT 130	Information Technology Fundamentals	3
CIT 247	Networking Fundamentals	3
CIT 371	Unix Systems	3
CIT 380	Securing Computer Systems	3
STA 212	Statistics for Business Applications I	3
STA 250	OR Probability and Statistics I	3
BIS 300	Management Information Systems	3
BIS 330	IT Project Management	3
BIS 382	Principles of Information Security	3
Select one course from the following:		
CIT 430	Computer Forensics	3
CIT 484	Network Security	
CSC 482	Computer Security	
CSC 483	Cryptology	
<b>TOTAL CREDITS</b>		<b>27-33</b>

\*Students who have a math ACT score of at least 23 or a math SAT score of at least 540 are not required to take MAT 109.  
 \*\*Students who have prior experience in computer programming or web development, but who have no college-level coursework in these subjects, may elect to take the respective competency tests in these subjects. Students who pass these tests will not be required to take INF 120 Elementary Programming, INF 286 Introduction to Web Development respectively..

### Computer Science Undergraduate Certificate

#### 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.

<b>Requirements for Certificate: Software Development</b>		<b>Credits</b>
MAT 109	Algebra for College Students (or placement*)	0-3
MAT 119	Pre-Calculus Mathematics (or placement**)	0-3
INF 120	Elementary Programming (or placement***)	0-3
INF 260	Object-Oriented Programming I	3
INF 282	Introduction to Databases	3
CSC 360	Object-Oriented Programming II	3
CSC 364	Data Structures and Algorithms	3
Select two courses from the following:		
CSC 301	Web Programming	6
CSC 362	Computer Systems	
CSC 402	Advanced Programming Methods	
CSC 439	Software Testing and Maintenance	
CSC 456	Advanced Web Application Development	
<b>TOTAL CREDITS</b>		<b>18-27</b>
<p>*Students who have a math ACT score of at least 23 or a math SAT score of at least 540 are not required to take MAT 109.</p> <p>**Students who have a math ACT score of at least 25 or a math SAT score of at least 570 are not required to take MAT 119.</p> <p>***Students who have prior experience in computer programming or web development, but who have no college-level coursework in these subjects, may elect to take the respective competency tests in these subjects. Students who pass these tests will not be required to take INF 120 Elementary Programming, INF 286 Introduction to Web Development respectively.</p>		

# PRE-PROFESSIONAL AND INTERDISCIPLINARY PROGRAMS

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This chapter includes two rather distinct sections: pre-professional programs and interdisciplinary programs. The section on pre-professional programs is offered as a service to NKU students who plan to attend a professional program following their work at NKU. It covers the following areas: pre-dental, pre-engineering, pre-law, pre-medical, pre-physician assistant, pre-pharmacy, pre-physical therapy, and pre-veterinary medicine.

The second section covers interdisciplinary programs offered at NKU. These are programs that 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 20 interdisciplinary minors: ancient civilizations, black studies, Celtic studies, Chinese studies, cinema studies, environmental studies, evolutionary studies, honors, international studies, Japanese studies, Latin American and Caribbean studies, medieval and Renaissance studies, Middle Eastern and North African studies, Native American studies, neuroscience, popular culture studies, pre-law, religious studies, social justice studies, and women's and gender studies. The university offers one undergraduate certificate in geographic information systems.

## PRE-PROFESSIONAL PROGRAMS

The information about pre-professional programs is general, so those 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 the areas included here should consult with an advisor before registering for classes. Those interested in a career in optometry, occupational therapy, podiatry, or another medically related area that is not listed below 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 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 level and above in courses such as cell biology, biochemistry, molecular biology, physiology, and genetics. Requirements for dental schools generally include:

- 2 semesters of biology with labs (some schools require an additional 2 semesters of biology courses at the 300 level and above).
- 2 semesters of inorganic/general chemistry with labs.
- 2 semesters of organic chemistry with labs.
- 1 semester of physics with labs.
- 2 semesters of English/composition courses (discipline-specific 291W 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 4-year plans in particular areas (such as biological sciences or chemistry), please see those particular degree programs.

#### FIRST YEAR

Fall Semester		
CHE 120/120L	General Chemistry I with Lab	4
MAT 129	Calculus I OR	4 or 3
MAT 112	Applied Calculus (biology only)	
Gen Ed:	Written Communication	3
BIO 150/150L	Introduction to Biology I with Lab	4
<b>TOTAL</b>		<b>14 or 15</b>

Spring Semester		
CHE 121/121L	General Chemistry II with Lab	4
MAT 229	Calculus II (chemistry)	5 or 3
STA 205	Introduction to Statistical Methods (biology)	
Gen Ed:	Oral Communication	3
BIO 151/151L	Introduction to Biology II with Lab	4
<b>TOTAL</b>		<b>14 or 16</b>

### 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 UofL, there are programs leading to degrees in chemical, civil, electrical, industrial, or 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 2 years of coursework then transfer to another institution to complete the requirements for the B.S. in a field of engineering in 2 years.

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:

- 1 year of English composition.
- 3 semesters of calculus-based physics with lab.
- 2 years of calculus and differential equations.
- 1 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-Law

No particular course of study is required for admission to law school. The main guide to a student's selection of a major should be the student's own interests and talents. Students contemplating law school may wish to consider the interdisciplinary pre-law minor or the pre-law area of concentration offered by the Department of Political Science and Criminal Justice. Among the primary admission factors considered by law schools are the student's GPA and score on the Law School Admission Test (LSAT). All pre-law students, regardless of major, are advised to consult with the university's pre-law advisor.

### 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 (bio-chemistry 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 level and above 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:

- 1 year of biology with labs.
- 1 year of inorganic/general chemistry with labs.
- 1 year of organic chemistry with labs.
- 1 year of physics with labs.
- 1 year of English/composition courses (discipline-specific 291W courses are accepted).
- Mathematics (varies with programs, usually two semesters of mathematics required).

## 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 4-year plans in particular areas (such as biological sciences or chemistry), please see those particular degree programs.

### FIRST YEAR

Fall Semester		
CHE 120/120L	General Chemistry I with Lab	4
MAT 129	Calculus I	4 or 3
MAT 112	Applied Calculus (biology only)	
Gen Ed:	Written Communication	3
BIO 150/150L	Introduction to Biology I with Lab	4
<b>TOTAL</b>		<b>14 or 15</b>

Spring Semester		
CHE 121/121L	General Chemistry II with Lab	4
MAT 229	Calculus II (chemistry)	5 or 3
STA 205	Introduction to Statistical Methods (biology)	
Gen Ed:	Oral Communication	3
BIO 151/151L	Introduction to Biology II with Lab	4
<b>TOTAL</b>		<b>14 or 16</b>

## 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 in biology with calculus (MAT 129) is a useful model.

Residents of Kentucky are provided spaces at Indiana University School of Optometry (Bloomington), Southern College of Optometry (Memphis, TN), and the 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 credits can complete the entry requirements in just 2 years, but more commonly, students require 3 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:

- 2 semesters of biology with labs.
- 1 semester of microbiology with lab.
- 1 semester of anatomy and physiology with lab.
- 2 semesters of inorganic/general chemistry with labs.
- 2 semesters of organic chemistry with labs.
- 1 semester of calculus.
- 1 semester of statistics.
- 2 semesters of physics with labs.
- 2 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 2 years. Because requirements vary slightly between pharmacy programs, students are urged to work very closely with their advisors and plan accordingly. Please see 4-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

Fall Semester		
CHE 120/120L	General Chemistry I with Lab	4
MAT 129	Calculus I	4 or 3
MAT 112	Applied Calculus (biology only)	
Gen Ed:	Written Communication I	3
BIO 150/150L	Introduction to Biology I with Lab	4
<b>TOTAL</b>		<b>15 or 14</b>

Spring Semester		
CHE 121/121L	General Chemistry II with Lab	4
STA 205	Introduction to Statistical Methods	3
Gen Ed:	Oral Communication	3
BIO 151/151L	Introduction to Biology II with Lab	4
<b>TOTAL</b>		<b>14</b>

### SECOND YEAR

Fall Semester		
CHE 310/310L	Organic Chemistry I with Lab	4
PHY 211	General Physics with lab I	5
BIO 302/302L	General Microbiology with lab	4
ECO 201	Principles of Microeconomics	4
<b>TOTAL</b>		<b>17</b>

Spring Semester		
CHE 311/311L	Organic Chemistry II with Lab	4
PHY 213	General Physics with lab II	5
BIO 208/208L	Human Anatomy and Physiology I with lab	4
Gen Ed:	Written Communication II	3
<b>TOTAL</b>		<b>16</b>

## 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, the student should check current catalogs or websites of the professional schools to which they intend to apply and work closely with an NKU advisor who specializes in advising for this area. Students should seek an advisor in biological sciences or chemistry.

## Coursework

The following coursework is generally required for admission to a physical therapy program:

- 2 semesters of biology with labs.
- 2 semesters of inorganic/general chemistry with labs.
- 1 semester of statistics.
- 1 semester of medical terminology.
- 2 semesters of physics with labs.
- 1 semester of oral communication.
- 1 semester of introduction to psychology.
- 1 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

Fall Semester		
CHE 120/120L	General Chemistry I with Lab	4
MAT 129	Calculus I	4 or 3
MAT 112	Applied Calculus (biology only)	
Gen Ed:	Written Communication	3
BIO 150/150L	Introduction to Biology I with Lab	4
<b>TOTAL</b>		<b>15 or 14</b>

Spring Semester		
CHE 121/121L	General Chemistry II with Lab	4
STA 205	Introduction to Statistical Methods	3
Gen Ed:	Oral Communication	3
BIO 151/151L	Introduction to Biology II with Lab	4
<b>TOTAL</b>		<b>14</b>

## 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, AL., and

Tuskegee Institute in Tuskegee, AL. It is sometimes possible to enter veterinary school with 3 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 4th year of coursework will satisfy NKU's requirements for the bachelor's degree, usually in biological sciences or chemistry. To design a 4-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 level and above in biology, chemistry or related disciplines to their degree programs. Program requirements for veterinary medicine generally include:

- 1 year of biology with labs plus two additional semesters of biology courses from a list of alternatives.
- 1 year of inorganic/general chemistry with labs.
- 1 year of organic chemistry with labs.
- 1 year of physics with labs.
- 1 year of English/composition courses (discipline-specific 291W courses are accepted).
- 1 semester of mathematics.
- 1 semester of biochemistry plus 1 semester of animal nutrition.
- Humanities, fine arts, and 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 4-year plans in particular areas (such as biological sciences or chemistry), please see those particular degree programs.

### FIRST YEAR

Fall Semester		
CHE 120/120L	General Chemistry I with Lab	4
MAT 129	Calculus I	4 or 3
MAT 112	Applied Calculus (biology only)	
Gen Ed:	Written Communication	3
BIO 150/150L	Introduction to Biology I with Lab	4
<b>TOTAL</b>		<b>14 or 15</b>

Spring Semester		
CHE 121/121L	General Chemistry II with Lab	4
MAT 229	Calculus II (chemistry)	5 or 3
STA 205	Introduction to Statistical Methods (biology)	
Gen Ed:	Oral Communication	3
BIO 151/151L	Introduction to Biology II with Lab	4
<b>TOTAL</b>		<b>14 or 16</b>

# 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

**E-mail Address:** boycer@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 Applied Ecology, 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:** Students will enter into the program as pre-environmental science majors. Upon completion of "BIO 150/150L and BIO 151/151L: Introduction to Biology I and II with Laboratory," "CHE 120/120L and CHE 121/121L: General Chemistry I and II with Laboratory," and either "MAT 119: Pre-Calculus Mathematics" or "STA 205: Introduction to Statistical Methods" with a grade of C- or higher, students may be admitted as environmental science majors.

**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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

### Degree Requirements

B.S. – Environmental Science		Credits
BIO 150/150L	Introduction to Biology I with Laboratory	4
BIO 151/151L	Introduction to Biology II with Laboratory	4
BIO 304/304L	General Ecology with Laboratory	4

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
ENV 110	Introduction to Environmental Science and Issues	3
ENV 115	Orientation to Environmental Science Careers	1
ENV 291W	Advanced Writing in Environmental Science <i>*Prerequisite: ENG 101 College Writing or ENG 151H Honors College Writing</i>	3
ENV 400	Environmental Science Seminar	1
GEO 306	Environmental Resource Management	3
GEO 418	Geographic Information Systems	4
GLY 120	This Dangerous Earth	3
GLY 340	Introduction to Environmental Geoscience	3
GLY 450	Hydrogeology with Laboratory	4
MAT 119	Pre-calculus Mathematics	3
PHY 211	General Physics with Laboratory I	5
PHY 213	General Physics with Laboratory II	5
STA 205	Introduction to Statistical Methods	3
One 3 credit internship		
OR	Directed research	3
A minor in biology, chemistry, geology or geography**		
**The requirements for the minor beyond the 8-14 credits are completed as part of the environmental science major.		8-14
<b>Program Credits</b>		<b>76-82</b>
<b>Additional Prerequisite Credits</b>		<b>3</b>
<b>TOTAL CREDITS</b>		<b>79-85</b>

### Integrative Studies

**Location:** Steely Library 410

**Telephone:** 859-572-1450

**Fax:** 859-572-6185

**E-mail Address:** IST@nku.edu

**Web Address:** <http://ist.nku.edu>

**Program Director:** Bill Attenweiler

**Assistant Director and Undergraduate Advisor:** Jennifer Webster

#### Undergraduate Programs:

Associate of Arts in Integrative Studies

Bachelor of Arts in Integrative Studies

**Thinking about the programs:** 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 programs for integrative studies are available as traditional daytime classes and in an evening, nontraditional format for adult learners through the PACE delivery. The associate program for integrative studies can also be completed through the NKU Grant County Center in Williamstown.

### Associate of Arts Degree in Integrative Studies

The Associate of Arts in Integrative Studies is a flexible 2-year degree ideal for students who are looking for academic accreditation either to advance their employment opportunities or as a stepping-stone toward a 4-year degree.

The associate degree requires a focus area in one of the following areas:

- Humanities
- Fine arts
- Social/behavioral sciences
- Natural sciences/mathematics

The focus area must include 15 credits of coursework in the chosen area with at least 6 credits 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 semester 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 area of concentration.

### Bachelor of Arts in Integrative Studies

This program requires students to complete minors or areas of concentration in four different disciplines. The requirements for a minor in any discipline are listed in the relevant department's pages in this catalog. An area of concentration is defined as 12 credit hours at the 300 level and above, 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 semester credit hours in courses at the 300 level or above.
- This program's culminating experience – the capstone course – which involves:
  - A portfolio of artifacts (work samples from each of the four disciplines studied).
  - A multidisciplinary project.

The program website includes specific information about the capstone course, portfolio, and multidisciplinary project.

In keeping with the mission of the integrative studies program, the following thematic areas may serve as an area of concentration. These options allow the integration of knowledge from several disciplines around a common theme. Each thematic area of concentration requires 12 credit hours in courses at the 300 level and above. The courses must relate to the chosen theme. The thematic areas are:

- Family and child development.
- Freedom studies.
- Global citizenship.
- Studies in creativity.

Information about the thematic areas is available on the program website.

**Special graduation requirements:** No grade of C- (or lower) will be accepted in any minor or area of concentration.

### International Studies

**Location:** Founders Hall 436

**Telephone:** 859-572-1961

**Fax:** 859-572-6184

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

**Web Address:** <http://www.nku.edu/~psc/programs/international/>

**Program Coordinator:** Kimberly Weir, Department of Political Science and Criminal Justice

**Department Coordinator:** Caroline Braden

### Bachelor of Arts with a major in International Studies

A major in international studies consists of 36 semester hours, including 15 semester hours of required courses, 21 semester hours of electives, and a modern foreign language through the intermediate level. The electives can be taken in six different patterns depending on the preference and career plans of the student. For students intending to pursue business careers, the university offers a business option. Students interested in a general background may select the social sciences options. Students will choose any seven courses equaling 21 credit hours from one of the options. Students who desire a more flexible curriculum can work out 21 semester hours of electives with the chair of political science and criminal justice.

Students with an interest in a specific region of the world may choose among the African, Asian, European, and Latin American options; they should fulfill their modern language requirement by taking a corresponding language. The international studies program will be of interest to students planning a career in the public sector or foreign service, in an international agency, in international business, or to students pursuing graduate work in international studies. The program prepares students for a variety of careers including foreign service officer, historian, congressional aide, international banker, interpreter, humanitarian relief worker, journalist, political scientist, and think-tank strategist.

All students are encouraged to consider study abroad. Study abroad, internship, and study-abroad internship opportunities offer networking and experience in domestic and international government, as well as private-sector business and nonprofit organizations.

### Degree Requirements: B.A. – International Studies

Core Courses in Political Science		Credits
PSC 102	Comparative Politics	3
	OR	
PSC 103	International Politics	
PSC 470	The Post-Cold War World	3
<b>Credits in Political Science and Criminal Justice</b>		<b>6</b>
Core Courses in Other Disciplines		
ANT 100	Cultural Anthropology	3
ECO 200	Principles of Macroeconomics	3
GEO 101	World Regional Geography	3
	OR	
GEO 103	Geography of the Third World	
<b>Core Credits in Other Disciplines</b>		<b>9</b>
<b>TOTAL CORE CREDITS</b>		<b>15</b>

**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 and Criminal Justice or the coordinator of international studies.

<b>African Option</b>		<b>Credits</b>
ANT 309	Peoples of Africa	3
ANT 310	African Arts	3
GEO 403	Geography of Africa	3
HIS 335	History of Ancient Africa	3
HIS 336	History of Modern Africa	3
PSC 366	Politics of Africa	3
Select one relevant course from one of the other options.		3
Select one 3-credit relevant course in consultation with advisor		3
<b>TOTAL OPTION CREDITS</b>		<b>21</b>
<b>Total Core Credits</b>		<b>15</b>
<b>TOTAL CREDITS</b>		<b>36</b>

<b>Asian Option</b>		<b>Credits</b>
ANT 385	Peoples of East and Southeast Asia	3
ARTH 104	Survey of Asian Art	3
GEO 410	Geography of Asia	3
HIS 340	History of Imperial China	3
HIS 341	History of Revolutionary China	3
HIS 331	History of Japan	3
PHI 312	Eastern Philosophy	3
POP 345	Japanese Popular Culture	3
<b>TOTAL OPTION CREDITS</b>		<b>21</b>
<b>Total Core Credits</b>		<b>15</b>
<b>TOTAL CREDITS</b>		<b>36</b>

<b>Business Option</b>		<b>Credits</b>
Select seven courses from the following:		
ACC 200	Principles of Accounting I - Financial	21
ACC 201	Principles of Accounting II - Managerial	
CTE 316	Intercultural Business Communication	
ECO 201	Principles of Microeconomics	
ECO 305	International Context for Business	
ECO 340	International Economics	
ECO 342	Economic Development	
FIN 415	International Finance	
FRE 340	Business French	
GEO 303	Economic Geography	
GER 340	Business German	
MGT 360	Comparative International Management	
PSC 410	International Political Economy	
SPI 340	Business Spanish	
<b>TOTAL OPTION CREDITS</b>		<b>21</b>
<b>Total Core Credits</b>		<b>15</b>
<b>TOTAL CREDITS</b>		<b>36</b>

<b>European Option</b>		<b>Credits</b>
Select seven courses from the following:		
ANT 370	Celtic Europe	21
FRE 310	French Culture and Society Today	
FRE 311	French Cultural History	
FRE 480	Studies in French Culture	
GEO 402	Geography of Europe	
GER 310	Contemporary German Life	
GER 311	German Cultural History	

GER 480	Studies in German Culture	21
HIS 308	Modern Europe 1870-1920	
HIS 309	Modern Europe since 1920	
HIS 355	British History 1760 to Present	
HIS 363	History of Germany since 1870	
HIS 377	Modern Russia since 1855	
HIS 413	History of Nazi Germany	
HIS 414	The Holocaust	
PSC 330	Politics of Europe	
SPI 310	Spanish Culture and Civilization	
<b>TOTAL OPTION CREDITS</b>		<b>21</b>
<b>Total Core Credits</b>		<b>15</b>
<b>TOTAL CREDITS</b>		<b>36</b>

<b>Latin American Option</b>		<b>Credits</b>
Select seven courses from the following:		
ANT 245	Latin American Societies	21
ANT 360	Mesoamerican Indians	
GEO 406	Geography of Latin America	
HIS 325	Early Latin American History	
HIS 326	Modern Latin American History	
HIS 436	History of Race Relations in the Americas 1800 to Present	
HIS 465	Nature and Development in Latin America	
PSC 335	Politics of Latin America	
SPI 311	Spanish-American Culture and Civilization	
SPI 480	Studies: Spanish and Spanish-American Culture	
<b>TOTAL OPTION CREDITS</b>		<b>21</b>
<b>Total Core Credits</b>		<b>15</b>
<b>TOTAL CREDITS</b>		<b>36</b>

<b>Social Science Option</b>		<b>Credits</b>
Select seven courses from the following:		
ANT 201	World Cultures	21
ANT 270	Native Australia and Oceania	
ANT 301/ SOC 301	World Patterns of Race and Ethnicity	
ANT 320	Religion and Culture	
ANT 330	Women, Gender, and Culture	
ANT 358	Art and Culture	
ANT 380	Origins of Civilization	
CMST 355	Cross-Cultural Communication	
EMB 370	International Media Systems	
GEO 302	Cultural Geography	
GEO 310	Geography of Populations	
HIS 321	Modernization in the Non-Western World	
HIS 329	History of the Middle East and North Africa	
HIS 333	Contemporary History	
HIS 423	Diplomacy and Foreign Policy of the United States	
HIS 425	American Diplomacy Since 1900	
HIS 561	Modernization in the Third World	
HIS 565	The Vietnam War	
PSC 312	Modern Ideologies	
PSC 338	U.S. Foreign Policy and the Developing World	
PSC 382	Politics of Canada	
PSC 394	Topics: Politics	
PSC 410	International Political Economy	
PSC 415	United States Foreign Policy	
PSC 420	International Terrorism	

PSC 480	International Law	
PSC 481	International Organizations	
PSC 485	Comparative Foreign Policies	
PSC 486	Conflict and Security	
REL 200	World Religions and Cultures	
REL 350	Religion and Ethics	
REL 305	Islam	
<b>TOTAL OPTION CREDITS</b>		<b>21</b>
<b>Total Core Credits</b>		<b>15</b>
<b>TOTAL CREDITS</b>		<b>36</b>

**Interdisciplinary Minors**

**Ancient Civilizations**

**Location:** Landrum Academic Center 217C

**Telephone:** 859-572-5259

**Fax:** 859-572-6086

**E-mail Address:** voelkerj1@nku.edu

**Web Address:**

<http://anthropology.nku.edu/index.php/undergraduate-programs/ancient-civilizations-minor>

**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 semester 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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

**Requirements for Minor: Ancient Civilizations**

Core Courses in Ancient Civilizations		Credits
HIS 108	World History to 1500	3
ANT 380	Origins of Civilization	3
<b>TOTAL CORE CREDITS</b>		<b>6</b>

Classics and Near Eastern Track		Credits
LAT 201	Intermediate Latin I* <i>*Prerequisite: LAT 102 Elementary Latin II or equivalent</i>	3
LAT 202	Intermediate Latin II	3
Select 9 credits 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	
ENG 315	The Bible as Literature	
HIS 100	History of Europe to 1713	
HIS 300	Ancient Near East and Greece to the Macedonian Conquest	
HIS 301	The Hellenistic World and Rome to the Death of Constantine	
HIS 365	European Military History: Ancient World to the Renaissance	
HIS 494	Topics: History (if a classics or Near East topic)	
HIS 594	Special Topics in History (if a classics or Near East topic)	9
LAT 280	Studies in Latin Language and Literature	
PHI 181	Philosophers, Cultures and Creativity	
PHI 355	Socrates and Plato	
PHI 394	Topics: Philosophy (if a classics or Near East topic)	
PSC 110	History of Western Political Thought	
PSC 370	Ancient Political Theory	
PSC 394	Topics: Politics (if a classics or Near East topic)	
REL 302	Survey of the Hebrew Bible/Old Testament	
REL 303	Survey of the New Testament	
REL 307	Survey of Christianity	
REL 306	Introduction to Judaism	
REL 301	Ancient Religions	
TAR 346	History of the Theatre and Dramatic Literature I	
<b>TOTAL TRACK CREDITS</b>		<b>15</b>
<b>Total Core Credits</b>		<b>6</b>
<b>TOTAL CREDITS</b>		<b>21</b>

World Civilizations Track		Credits
Select 15 credits from the following. Courses must come from at least two different disciplines.		
ANT 110	Introduction to Archaeology	
ANT 310	African Arts	
ANT 318	Prehistoric Ecology	
ANT 331	Women in Prehistory	
ANT 352	Archeology of Mesoamerica	
ANT 394	Topics: Anthropology (if a world civilizations topic )	
ANT 594	Topics: Anthropology (if a world civilizations topic)	
ARI 201	Intermediate Arabic I	
ARI 202	Intermediate Arabic II	
ARTH 350	Ancient Art	
CHI 201	Intermediate Chinese I	
CHI 202	Intermediate Chinese II	
HIS 300	Ancient Near East and Greece to the Macedonian Conquest	
HIS 301	The Hellenistic World and Rome to the Death of Constantine	
HIS 329	History of the Middle East and North Africa	
HIS 331	History of Japan	
HIS 335	History of Ancient Africa	15
HIS 340	History of Imperial China	
HIS 494	Topics: History (if a world civilizations topic)	
HIS 594	Special Topics in History (if a world civilizations topic)	
JPN 201	Intermediate Japanese	
JPN 202	Intermediate Japanese II	
PSC 394	Topics: Politics (if a world civilizations topic or	

	a Near East topic)	
REL 305	Islam	
REL 394	Topics: Religious Studies, if a world civilizations topic.	
PSC 110	History of Western Political Thought	
PSC 370	Ancient Political Theory	
REL 302	Survey of the Hebrew Bible/Old Testament	
REL 303	Survey of the New Testament	
REL 307	Survey of Christianity	
REL 306	Introduction to Judaism	
REL 301	Ancient Religions	
TAR 346	History of the Theatre and Dramatic Literature I	
<b>TOTAL TRACK CREDITS</b>		<b>15</b>
<b>Total Core Credits</b>		<b>6</b>
<b>TOTAL CREDITS</b>		<b>21</b>

PSC 370	Ancient Political Theory	
PSC 394	Topics: Politics (if an ancient civilizations topic)	
REL 302	Survey of the Hebrew Bible/Old Testament	
REL 303	Survey of the New Testament	
REL 307	Survey of Christianity	
REL 306	Introduction to Judaism	
REL 301	Ancient Religions	
REL 305	Islam	
REL 394	Topics: Religious Studies, if a world civilizations topic.	
TAR 346	History of the Theatre and Dramatic Literature I	
<b>TOTAL TRACK CREDITS</b>		<b>15</b>
<b>Total Core Credits</b>		<b>6</b>
<b>TOTAL CREDITS</b>		<b>21</b>

General Track	Credits
Select 15 credits from the following. Courses must come from at least two different disciplines.	
ANT 110	Introduction to Archaeology
ANT 310	African Arts
ANT 318	Prehistoric Ecology
ANT 331	Women in Prehistory
ANT 352	Archeology of Mesoamerica
ANT 394	Topics: Anthropology (if an ancient civilizations topic)
ANT 594	Topics: Anthropology (if an ancient civilizations topic)
ARI 201	Intermediate Arabic I
ARI 202	Intermediate Arabic II
ARTH 101	Survey of Western Art I
ARTH 350	Ancient Art
CHI 201	Intermediate Chinese I
CHI 202	Intermediate Chinese II
ENG 206	Western World Literature I
ENG 215	Greek and Roman Mythology
ENG 315	The Bible as Literature
HIS 100	History of Europe to 1713
HIS 300	Ancient Near East and Greece to the Macedonian Conquest
HIS 301	The Hellenistic World and Rome to the Death of Constantine
HIS 325	Early Latin American History
HIS 329	History of the Middle East and North Africa
HIS 331	History of Japan
HIS 335	History of Ancient Africa
HIS 340	History of Imperial China
HIS 365	European Military History: Ancient World to the Renaissance
HIS 494	Topics: History (if an ancient civilizations topic)
HIS 594	Special Topics in History (3,0,3) if an ancient civilizations topic
JPN 201	Intermediate Japanese
JPN 202	Intermediate Japanese II
LAT 201	Intermediate Latin I
LAT 202	Intermediate Latin II
LAT 280	Studies in Latin Language and Literature
PHI 181	Philosophers, Cultures, and Creativity
PHI 355	Socrates and Plato
PHI 394	Topics: Philosophy (if an ancient civilizations topic)
PSC 110	History of Western Political Thought

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### Black Studies

**Location:** Landrum Academic Center 415

**Telephone:** 859-572-5461

**Fax:** 859-572-6088

**E-mail Address:** hisgeo1@nku.edu

**Web Address:** <http://hisgeo.nku.edu/programs/blackstudies.php>

**Program Director:** Please contact the chair 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		Credits
BLS 100	Introduction to Black Studies	3
HIS 106	History of African Americans to 1877	3
HIS 107	History of African Americans since 1877	3
HIS 431	Historical Themes in African-American History	3
Select one course from the following history courses:		
BLS 494	Topics: Black Studies	
HIS 310	Colonial America to 1763	
HIS 313	Expansion and Conflict, 1828-1861	
HIS 316	Modern United States History since 1939	
HIS 317	History of the New South	
HIS 318	Current Events: Historical Perspective ( <i>when topic is applicable</i> )	
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	3
HIS 426	Historical Geography of the United States	
HIS 427	Urban History of the United States	
HIS 435	History of Race Relations: America 1492-Present	
HIS 436	History of Race Relations in the Americas 1800	

	to 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 535	Civil War and Reconstruction	
HIS 539	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 556	African Americans in U.S. Culture, Education, and Politics	
HIS 561	Modernization in the Third World	
HIS 594	Special Topics in History <i>(when topic is applicable)</i>	

Select one course from among the following behavioral and social sciences/social work options:

BLS 494	Topics: Black Studies	
ANT 301	World Patterns of Race and Ethnicity	
ANT 330	Women, Gender, and Culture	
GEO 103	Geography of the Third World	
GEO 309	Historical Geography of the United States	
GEO 310	Geography of Population	
GEO 403	Geography of Africa	
GEO 492	Directed Research: Geography <i>(when topic is applicable)</i>	
GEO 594	Special Topics Geography (when topic is applicable)	
HNR 303	Honors Seminar: Humanity and the Imagination	3
HNR 306	Studies in Diversity	
HSR 500	Multicultural Family Work	
JUS 231	Race, Gender, and the Law	
PSC 338	U.S. Foreign Policy and the Developing World	
PSC 394	Topics: Politics (if relevant to Black Studies)	
SOC 210	Analysis of Racism and Sexism in the United States	
SOC 300	Race and Ethnic Relations	
SOC 301	World Patterns of Race and 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 and Family)	

WGS 388	African-American Women's History and Culture	
Select one course from among the following humanities and creative productions/communication options:		
BLS 494	Topics: Black Studies	
ENG 211	Survey of Women's Literature I	
ENG 212	Survey of Women's Literature II	
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	3
MUS 110	Appreciation of Jazz	
MUS 254	Women in Music in Europe and America II: The 20th Century	
PHI 324	Africana Philosophy	
PHI 394	Topics: Philosophy (when topic is applicable)	
REL 325	African-American Religious Experience in America	

REL 394	Topics Religious Studies (when offered as The Ethics and Theology of Martin Luther King Jr., and Malcolm X)	
CMST 355	Cross-Cultural Communication	
TAR 102	Race, Gender and Theatre	
TAR 452	Special Problems: Theatre Literature <i>(when topic is applicable)</i>	

Select one additional course from the three sets of options above	3
<b>TOTAL CREDITS</b>	<b>24</b>

**Celtic Studies**

**Location:** Landrum Academic Center 217C

**Telephone:** 859-572-5259

**Fax:** 859-572-6086

**E-mail Address:** simontonm@nku.edu

**Web Address:**

<http://anthropology.nku.edu/index.php/undergraduate-programs/celtic-studies-minor>

**Program Director:** Michael J. Simonton, Department of Sociology, Anthropology, and Philosophy

**Minor in Celtic 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, 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 (as well as 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 yet another avenue of what it means to be human.

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.

Requirements for Minor: Celtic Studies		Credits
HIS 100	History of Europe to 1713	3
ANT 370	Celtic Europe	3
ANT 374	Celtic and Viking Archaeology	3
ENG 477	Irish Literary Renaissance	3

Select three of the following:

ANT 294	Topics: Anthropology <i>(if Celtic Studies topic)</i>	
ANT 372	Peasant Societies	
ANT 376	Irish Society Through Film	
ANT 394	Topics: Anthropology <i>(if Celtic Studies Topic)</i>	
ANT 594	Topics: Anthropology <i>(if Celtic Studies Topic)</i>	
ENG 200	Understanding Literature <i>(if Celtic Studies Topic)</i>	
ENG 201	Ideas in Literature <i>(if Celtic Studies Topic)</i>	
HIS 353	British History to 1485	
HIS 486	History of Modern Ireland	
HIS 494	Topics: History <i>(if Celtic Studies Topic)</i>	
HIS 594	Special Topics in History <i>(if Celtic Studies Topic)</i>	
REL 301	Ancient Religions	
PHI 394	Topics: Philosophy	
PSC 330	Politics of Europe	
PSC 394	Topics: Politics <i>(if Celtic Studies Topic)</i>	
Other appropriate courses <i>(with permission, if Celtic Studies emphasis)</i>		9

<b>TOTAL CREDITS</b>	<b>21</b>
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### Chinese Studies

**Location:** Landrum Academic Center 134

**Telephone:** 859-572-7650

**Fax:** 859-572-7506

**E-mail Address:** worldlanglit@nku.edu

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

**Program Director:** vacant

#### 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.

Requirements for Minor: Chinese Studies	Credits
Proficiency in Chinese language: students must either complete "Chinese 202: Intermediate Chinese II" and all necessary prerequisites or demonstrate to the satisfaction of the department chair that they have an equivalent level of proficiency.	0-12
Select at least two courses from the following:	
ARTH 104 Survey of Asian Art	
ENG 216 Studies in Non-Western Literature (Topic: Chinese Literature)	
HIS 340 History of Imperial China	6-15
HIS 341 History of Revolutionary China	
PHI 312 Eastern Philosophy	
Select 17 credits from the following:	
ANT 380 Origins of Civilization	
ANT 385 Peoples of East and Southeast Asia	
CHI 350 Methods of Teaching Chinese	
CHI 380 Topics in Advanced Chinese	
GEO 385 Peoples of East and Southeast Asia	0-17
GEO 410 Geography of Asia	
HIS 332 World Civilizations to 1550	
HIS 333 Contemporary History	
REL 350 Religion and Ethics	
PHI 350 Philosophy of Religion	
PSC 410 International Political Economy	
<b>TOTAL MINIMUM CREDITS</b>	<b>23</b>

### Cinema Studies

**Location:** Landrum Academic Center 500

**Telephone:** 859-572-5578

**Fax:** 859-572-6093

**E-mail Address:** alberti@nku.edu

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

**Program Director:** John Alberti, Department of English

#### Minor in Cinema Studies

The minor in cinema studies is an interdisciplinary program that allows students to develop and broaden their critical understanding of the history, theory, production, reception, and analysis of cinema as an international social practice of cultural narrative, commentary, and artistic expression. Students in the program will practice and expand their abilities to write analytically about cinema and cinema theory as well as increase their knowledge of and familiarity with the historical development and cultural diversity of cinema. The minor in cinema studies will enable students to act as critically aware and well-informed citizens and participants in their cultural communities at the local, national, and international level.

No course in which a grade below C is earned can be counted on the cinema studies minor.

Requirements for Minor: Cinema Studies	Credits
CIN 200 Introduction to Cinema Studies	3
CIN 201 Survey of World Cinema	3
CIN 202 Survey of US Cinema	3
Select 12 credits from the following (9 credits must be at the 300 level or above):	
CIN 494 Studies in Cinema (can be cross-listed)	
ANT 376 Irish Society thru Film	
EMB 100 Media Literacy	
EMB 140 Introduction to Media Aesthetics	
EMB 380 Documentary Theory and History	
ENG 302 Literature and Film	12
ENG 431/ Screenwriting	
TAR 482/	
EMB 450/	
HIS 380 History and Film	
HNR 307 Studies in Film	
JOU 480/ Reviewing	
TAR 480	
JUS 319 Criminal Justice in Film	
PSC 320 American Politics in Film	
PSC 322 International Politics in Film	
<b>TOTAL CREDITS</b>	<b>21</b>

### Environmental Studies

**Location:** Herrmann Science Center 150

**Telephone:** 859-572-1407

**Fax:** 859-572-5639

**E-mail Address:** boycer@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.

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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Environmental Studies	Credits
BIO 123 Human Ecology	3
<b>OR</b>	
ENV 110 Introduction to Environmental Science and Issues	
ENV 396 Internship: Environmental Science	3
ENV 400 Environmental Science Seminar	1
PSC 403 Public Policy*	3
<i>*Prerequisite: PSC 100 American Politics, PSC 101 State and Local Politics, PSC 102 Comparative Politics, or PSC 103 International Politics</i>	
Select 12 credits from the following:	
ANT 317 Ecological Anthropology	
ANT 345 Environmental Anthropology	
BIO 304/304L General Ecology with Ecology Lab	
CHE 112/112L Chemistry and Society	
CMGT 323 Land Planning and Development	
EGT 423 Planning and Design of Industrial Facilities	
ENG 326 Literature and the Environment	

ENV 115	Orientation to Environmental Careers	
ENV 220/220L	Protecting Water Resources with Lab	
ENV 350	Environmental Toxicology	
GEO 314	Maps and Map Interpretation	12
GEO 306	Environmental Resource Management	
GEO 418	Geographic Information Systems	
GEO 340	Sustainable Food Systems	
GEO 394	Topics: Geography	
GLY 120	This Dangerous Earth	
GLY 240	Natural Resources, Energy and the Environment	
HIS 465	Nature and Development in Latin America	
PHI 302	Ethics and Science	
PHI 360	Topics: Environmental Philosophy	
SOC 340	Population	
SOC 355	Sociology of the Environment	
<b>Program Credits</b>		<b>22</b>
<b>Additional Prerequisite Credits</b>		<b>3</b>
<b>TOTAL CREDITS</b>		<b>25</b>

### Evolutionary Studies

**Location:** Mathematics Education Psychology Center 365

**Telephone:** 859-572-5117

**Fax:** 859-572-6085

**E-mail Address:** hogan@nku.edu

**Web Address:** <http://ids.nku.edu/minors/evolutionary.php>

**Program Director:** David Hogan, Department of Psychological Science

**Other Faculty:**

Denice Robertson, Department of Biological Sciences; Rudy Garns, Department of Sociology, Anthropology, and Philosophy; John Rockaway, Department of Physics and Geology; Barbara Thiel, Department of Sociology, Anthropology, and Philosophy

### Minor in Evolutionary Studies

The minor in evolutionary studies is especially relevant to students seeking high-level integration of the natural sciences, behavioral sciences, and humanities using contemporary evolutionary theory as an integrative concept; to students aspiring to teach evolution in the middle and secondary schools; and to 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 minor requirements, then the prerequisite is given in italics below the course for which it is a prerequisite, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Evolutionary Studies		Credits
BIO 220	Biological Evolution* <i>*Prerequisite: BIO 120/120L Understanding the Living World with Laboratory</i>	3
GLY 225	Prehistoric Life	3
PSY 301/ HNR 301	Evolutionary Psychology* <i>*Prerequisite: PSY 100 Introduction to Psychology</i>	3
ANT 202/202L	Introduction to Physical Anthropology with Laboratory	4
PHI 348/ NR301	Darwin and Philosophy	3
Select 6 credits from the following:		
ANT 110	Introduction to Archaeology	
ANT 394	Topics: Anthropology**	
BIO 405	Invertebrate Paleontology	
BIO 405L	Invertebrate Paleontology Lab	
BIO 440	Animal Behavior	
BIO 440L	Animal Behavior: Laboratory	
BIO 494	Topics: Biological Science**	
GLY 220	History of Earth	

GLY 294	Topics: Geology**	6
GLY 402	Invertebrate Paleontology with Laboratory	
PHI 394	Topics: Philosophy**	
PSY 311	Biopsychology	
PSY 311L	Biopsychology Laboratory	
PSY 337	Animal Learning	
PSY 338	Cognitive Processes	
PSY 494	Topics: Psychology**	
Evolutionary Studies Capstone		3
<b>Program Credits</b>		<b>25</b>
<b>Additional Prerequisite Credits</b>		<b>7</b>
<b>TOTAL CREDITS</b>		<b>32</b>
**Special topics seminar course in anthropology, biology, 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

**E-mail Address:** honors@nku.edu

**Web Address:** <http://honors.nku.edu/>

**Interim Director:** Belle Zembrodt

**Other Key Personnel:**

Advisor: David Kime

Recruitment & Student Services Coordinator: Vacant

Administrative Specialist: Lauren McClain

**Full-Time Faculty:** Ali Godel, Kristen Hornsby, Kenneth Oswald, Belle Zembrodt

### Honors Minor

To complete the honors minor, students must complete 21 credits of honors coursework. Up to 6 credits can be "honors-designated" general education courses. Either 3 or 6 (student's choice) of the 21 credit hours will be fulfilled by completing the capstone project at the end of the honors experience.

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 but are strongly encouraged to take either "HNR 201: Arts, Theory, and the Public Sphere," or "HNR 202: Common Commodities Crossing Global Cultures."

HNR 101, along with the capstone project, is the only mandated requirement in the honors curriculum. To reach the total of 21 credit hours, students will complete any combination of the 200-level honors courses, the 300-level honors seminars, or "honors contract" courses within their major.

More information is available about the honors program in another section of the catalog.

### International Studies

**Location:** Founders Hall 436

**Telephone:** 859-572-1961

**Fax:** 859-572-6184

**E-mail Address:** psc@nku.edu

**Web Address:** <http://www.nku.edu/~psc/programs/international/>

**Program Director:** Kimberly Weir, Department of Political Science and Criminal Justice.

**Program Coordinator:** Caroline Braden

**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 and the ability to speak a foreign language. 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 21 semester hours, including the same 15 hours required as the core of the major and 6 semester hours of elective courses chosen in consultation with the chair of the Department of Political Science and Criminal Justice. In addition, a student is required to take modern foreign language through the intermediate level.

Minor Requirements: International Studies		Credits
ANT 100	Cultural Anthropology	3
ECO 200	Principles of Macroeconomics	3
GEO 101	World Regional Geography	3
	OR	
GEO 103	Geography of the Third World	
PSC 102	Comparative Politics	3
	OR	
PSC 103	International Politics	
PSC 470	The Post-Cold War World	3
6 semester hours of elective courses chosen in consultation with the chair of the Department of Political Science and Criminal Justice		6
<b>TOTAL CREDITS</b>		<b>21</b>

**Japanese Studies**

**Location:** Founders Hall 436

**Telephone:** 859-572-1961

**Fax:** 859-572-6184

**E-mail Address:** psc@nku.edu

**Web Address:**

<http://www.nku.edu/~psc/programs/interdisciplinary/japanese.php>

**Program Director:** Kimberly Weir, Department of Political Science and Criminal Justice

**Program Coordinator:** Caroline Braden

**Minor in Japanese Studies**

The minor in Japanese studies offers students the opportunity for a detailed examination of various aspects of the Japanese people and their activities. The program, selected from several disciplines, provides a broad appreciation of a nation and culture of great and growing significance in world affairs. To complete the minor, students must earn a total of 26 semester hours selected from the following.

Minor Requirements: Japanese Studies		Credits
Select 26 credits from the following:		
ANT 385	Peoples of East and Southeast Asia	26
ARTH 104	Survey of Asian Art	
ARTH 359	Arts and Crafts of Japan	
ENG 216	Studies in Non-Western Literature (Japanese option)	
JPN 101	Elementary Japanese I	
JPN 102	Elementary Japanese II	
JPN 201	Intermediate Japanese	
JPN 202	Intermediate Japanese II	
JPN 280	Advanced Individual Program Instruction: Japanese (1 credit)	
JPN 345	Japanese Popular Culture	
JPN 350	Methods of Teaching Japanese	
JPN 380	Topics in Advanced Japanese	
GEO 410	Geography of Asia	
HIS 331	History of Japan	

PHI 312	Eastern Philosophy	
PSC 394	Topics: Politics (Japanese Topic)	
REL 350	Religion and Ethics	
POP 394	Topics: Popular Culture	
<b>TOTAL CREDITS</b>		<b>26</b>

**Latin American and Caribbean Studies**

**Location:** Founders Hall 436

**Telephone:** 859-572-1961

**Fax:** 859-572-6184

**E-mail Address:** psc@nku.edu

**Web Address:**

<http://www.nku.edu/~psc/programs/interdisciplinary/latin.php>

**Program Director:** Kimberly Weir, Department of Political Science and Criminal Justice

**Program Coordinator:** Caroline Braden

**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 21 semester hours, including one Latin American course each from political science, history, geography, and anthropology, plus 9 additional semester credit hours of elective courses dealing with Latin America or with the Spanish language. All students pursuing this minor should acquire some competence in Spanish.

Requirements for Minor: Latin American and Caribbean Studies		Credits
Select one of the following:		
ANT 245	Peoples of Latin America and the Caribbean	3
ANT 352	Archaeology of Mesoamerica	
ANT 360	Mesoamerican Indians	
GEO 406	Geography of Latin America	3
HIS 325	Early Latin American History	3
	OR	
HIS 326	Modern Latin American History	
PSC 335	Politics of Latin America	3
Select 9 credits from the following:		
SOC 245	Latin American Societies	9
SPI 101	Elementary Spanish I	
SPI 102	Elementary Spanish II	
SPI 201	Intermediate Spanish I	
SPI 202	Intermediate Spanish II	
SPI 340	Business Spanish	
SPI 311	Spanish-American Culture and Civilization	
SPI 321	Survey of Spanish-American Literature	
SPI 499	Independent Study: Spanish	
<b>TOTAL CREDITS</b>		<b>21</b>

**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://ids.nku.edu/minors/medieval.php>

**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 5th 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 semester hours in designated courses. "HIS 303: Europe in the Middle Ages" and "HIS 304: Renaissance Europe" are required, and the remaining 15 semester 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		Credits
HIS 303	Europe in the Middle Ages	3
HIS 304	Renaissance Europe	3
Select 15 credits from the following:		
ANT 370	Celtic Europe	15
ANT 374	Celtic and Viking Archaeology	
ARTH 101	Survey of Western Art I	
ARTH 102	Survey of Western Art II	
ARTH 351	Medieval Art	
ENG 308	Shakespeare I	
ENG 309	Shakespeare II	
ENG 401	Chaucer	
ENG 402	Middle English Literature	
ENG 403	Old English	
FRE 101	Elementary French I	
FRE 102	Elementary French II	
FRE 201	Intermediate French I	
FRE 202	Intermediate French II	
HIS 303	Europe in the Middle Ages	
HIS 353	British History to 1485	
HIS 442	History through Biography (if medieval or Renaissance topic)	
ITA 101	Elementary Italian I	
ITA 102	Elementary Italian II	
ITA 201	Intermediate Italian I	
ITA 202	Intermediate Italian II	
LAT 101	Elementary Latin I	
LAT 102	Elementary Latin II	
LAT 201	Intermediate Latin I	
LAT 202	Intermediate Latin II	
LAT 280	Studies in Latin Language and Literature	
MUS 230	History of Music I: Antiquity through Early Baroque	
PHI 181	Philosophers, Cultures, and Creativity	
PHI 285	History of Modern and Contemporary Philosophy	
PSC 370	Ancient Political Theory	
<b>TOTAL CREDITS</b>		<b>21</b>

### 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://ids.nku.edu/minors/middleeastern.php>

**Program Director:** Kimberly Weir, Department of Political Science and Criminal Justice

**Program Coordinator:** Caroline Braden

### 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 23 hours selected from the courses listed below. Applicable course prerequisites must be met. Substitutions may be approved by the chair of political science and criminal justice.

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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Middle Eastern and North African Studies		Credits
Select 23 credits from the courses listed below:		
ARI 101	Elementary Arabic I	23
ARI 102	Elementary Arabic II	
ARI 201	Intermediate Arabic I	
ARI 202	Intermediate Arabic II	
ARI 350	Methods of Teaching Arabic	
ARI 380	Topics in Advanced Arabic	
ENG 313	Middle Eastern Literature	
ENG 315	The Bible as Literature	
GEO 594	Special Topics Geography	
HIS 329	History of the Middle East and North Africa	
PSC 102	Comparative Politics	
PSC 103	International Politics	
PSC 338	U.S. Foreign Policy and the Developing World	
<i>*Prerequisite: PSC 100, 101, 102, 103, 110 or 111</i>		
PSC 486	Conflict and Security	
*Prerequisite:	PSC 100, 101, 102, or 103	
PSC 394	Topics: Politics (Middle Eastern topic)	
*Prerequisite:	PSC 100, 101, 102, or 103	
REL 302	Survey of the Hebrew Bible/Old Testament	
REL 303	Survey of the New Testament	
REL 306	Introduction to Judaism	
REL 305	Islam	
<b>TOTAL CREDITS</b>		<b>23</b>

### Teaching Certificate in Arabic

Students seeking teaching certification in Arabic should contact the chair of world languages and literature department.

Requirements for Certificate: Arabic		Credits
ARI 201	Intermediate Arabic I* <i>*Prerequisite: ARI 101 Elementary Arabic I and ARI 102 Elementary Arabic II</i>	3
ARI 202	Intermediate Arabic II	3
ARI 350	Methods of Teaching Arabic	3
ARI 380	Topics in Advanced Arabic including one linguistics course	15
Select two courses from the following:		
ENG 313	Middle Eastern Literature	6
HIS 329	History of the Middle East and North Africa	
PSC 394	Topics: Politics (if international focus)	
REL 305	Islam	
<b>Program Credits</b>		<b>30</b>
<b>Additional Prerequisite Credits</b>		<b>6</b>
<b>TOTAL CREDITS</b>		<b>36</b>

### Native American Studies

**Location:** Landrum Academic Center 217C

**Telephone:** 859-572-5259

**Fax:** 859-572-6086

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

**Web Address:**

<http://anthropology.nku.edu/index.php/undergraduate-programs/native-american-studies-minor>

**Program Director:** Sharlotte 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 the Pine Ridge Reservation in South Dakota. 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.

Because of the overlap in courses, anthropology majors may minor in Native American studies only if they have a second major or minor or an area of concentration outside the anthropology program.

Requirements for Minor: Native American Studies		Credits
ANT 100	Cultural Anthropology	3
ANT 230	North American Indians	3
ANT 231	Modern American Indians	3
ANT 350	North American Archaeology	3
Select three courses from the following:		
ANT/SOC 301	World Patterns of Race and 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	
GEO 107	Diversity Mapped	
HIS 416	Plains Indians	
HIS 557	History of Indians of the United States	
SOC 345	Native American Social Issues	
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)	
	Other appropriate courses (with permission, if Native American emphasis)	9
<b>TOTAL CREDITS</b>		<b>21</b>

### Neuroscience

**Location:** Mathematics Education Psychology Center 337

**Telephone:** 859-572-5591

**Fax:** 859-572-6085

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

**Web Address:** <http://ky-brin.nku.edu/NEUROSCIENCE.htm>

**Program Director:** Mark Bardgett: Department of Psychological Science

**Other Faculty:**

Rudy Garns, Department of Sociology, Anthropology, and Philosophy; Kristi Haik, Department of Biological Sciences; Kevin Kirby, Department of Computer 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 (for example, medicine, psychology, education, chemistry, biology, pharmacology, computer science, philosophy, and social work).

Students must earn a C grade or better in all courses applied toward certification of the minor.

Psychology majors may only apply six hours of minor coursework to their major.

Requirements for Minor: Neuroscience		Credits
PSY 311	Biopsychology	3
PHI 345	Philosophy of Mind	3
NEU 493	Cognitive Neuroscience Seminar	1
Select one course from the following:		
BIO 245	Neurobiology	
CSC 325	Introduction to Neural Networks and Artificial Intelligence	3
PSY 338	Cognitive Processes	
Select four courses from the following*:		
ANT 202	Introduction to Physical Anthropology	
ANT 275	Language and Culture	
ANT 363	Language and Thought	
ANT 371	Psychological Anthropology	
BIO 245	Neurobiology	

BIO 349	Genetics	12
BIO 360	Advanced Biology of the Cell	
BIO 402	Advanced Neurobiology	
BIO 402L	Advanced Neurobiology Lab	
BIO 440	Animal Behavior	
BIO 467	Endocrinology	
CSC 325	Introduction to Neural Networks and Artificial Intelligence	
CSC 425	Artificial Intelligence	
CSC 485	Theory of Computation	
ENG 381	Introduction to Linguistics	
PHI 165	Introduction to Logic	
PHI 306	Philosophy and Science	

PHI 302	Ethics and Science
PSY 309	Psychology of Perception
PSY 333	Abnormal Psychology
PSY 337	Animal Learning
PSY 338	Cognitive Processes
PSY 360	Psychopharmacology
Other acceptable elective courses upon consent of the minor director:	
HNR 301/ PHI 394	Special Topics: Androids, Zombies, and Brains
HNR 302/ PSY 494	Topics: Psychology
HNR 303	Honors Seminar: Humanity and the Imagination
PHI 315	Knowledge and Reality
ANT 499	Independent Study in Anthropology
BIO 492	Directed Research: Biological Sciences
CHE 492	Research: Chemistry
CSC 499	Advanced Directed Readings/Independent Study
HNR 491	Senior Honors Thesis
PHI 499	Independent Study in Philosophy
PSY 492	Research: Psychology

**TOTAL CREDITS** **22**

\*In choosing four courses, student should remember:

- Three of these electives must come from outside of the student's major.
- Students are strongly encouraged to take "BIO 150: Introduction to Biology I" and "BIO 151: Introduction to Biology II" prior to or at the beginning of their coursework in the minor.
- Students cannot take "CSC 325: Introduction to Neural Networks and A.I." after taking "CSC 425: Artificial Intelligence."

### Popular Culture Studies

**Location:** Griffin Hall 561

**Telephone:** 859-572-5291

**Fax:** 859-572-5291

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

**Web Address:**

<http://informatics.nku.edu/com/undergraduate/minors/popculture>

**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.*

Requirements for Minor: Popular Culture Studies		Credits
EMB 100	Media Literacy	3
ENG 365	American Folklore	3
<b>OR</b>		
HIS 380	History and Film	
POP 205	Introduction to Popular Culture	3
POP 499	Independent Study	3

Select three courses from those listed below. 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 and 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
<b>OR</b>	
JOU 421	Mass Communication History
ENG 353	Contemporary American Novel
HIS 314	Rise of Industrial United States, 1865-1900
HIS 315	Modern United States History, 1900-1939
HIS 316	Modern United States History Since 1939
HIS 454	Early American Frontier
JOU 440	Media Ethics
JUS 101	Introduction to Criminal Justice
JUS 231	Race, Gender, and the Law
PSC 320	American Politics in Film
SOC 307	Social Stratification
SOC 335	Popular Culture
SOC 364	Women and Men in Society

#### *Subgroups (Regional Cultures/Diversity/Ethnic Groups) in America*

BLS 100	Introduction to Black Studies
CMST 317	Gender and Communication
ENG 305	American Women Writers
GEO 302	Cultural Geography
GEO 309	Historical Geography of the United States
HIS 317	History of the New South
HIS 431	Historical Themes in African-American History
HIS 444	History of Women in the United States to 1900
HIS 445	History of Women in the United States since 1900
HIS 541	History of Kentucky
MUS 107	Survey of African-American Music
PSY 201	Psychology of Race and Gender
SOC 300	Race and Ethnic Relations
SPI 311	Spanish-American Culture and Civilization
WGS 310	Women, Wages, and Work
WGS 311	Philosophy of Women
WGS 388	African-American Women's History and Culture

#### *International Perspective*

ANT 310	African Arts
ANT 330	Women, Gender, and Culture
ANT 360	Mesoamerican Indians
ANT 376	Irish Society Through Film
ANT 385	Peoples of East and Southeast Asia
ARTH 104	Survey of Asian Art
ARTH 360	African-American Art
CMST 355	Cross-Cultural Communication
ECO 344	Comparative Economic Systems
FRE 310	French Culture and Society Today

FRE 311	French Cultural History
GER 310	Contemporary German Life
GER 311	German Cultural History
HIS 325	Early Latin American History
HIS 326	Modern Latin American History
HIS 329	History of the Middle East and North Africa
HIS 413	History of Nazi Germany
HIS 473	Battles and Behaviors I 1066-1836
HIS 474	Battles and Behaviors II 1854-1984
HIS 565	Vietnam War
MUS 106	Music of World Cultures
POP 345	Japanese Popular Culture
SOC 301	World Patterns of Race and Ethnicity
SPI 310	Spanish Culture and Civilization

**Traditional Arts and Humanities**

ARTH 102	Survey of Western Art II
ARTH 103	Survey of Western Art III
ARTH 321	History of Graphic Design
ARTO 210	Basic Photography
DAN 427	Dance History
EMB 380	Documentary Theory and History
EMB 400	Media Criticism
ENG 202	Survey of British Literature I
ENG 203	Survey of British Literature II
ENG 208	Survey of American Literature I
ENG 209	Survey of American Literature II
ENG 215	Greek and Roman Mythology
ENG 302	Literature and Film
ENG 315	The Bible as Literature
ENG 386	Children’s Literature
HIS 421	Cultural and Intellectual History of the U.S. to 1875
MUS 108	History of Rock and Roll
MUS 109	History of American Popular Music
MUS 110	Appreciation of Jazz
TAR 455	Musical Theater Literature II

**Social and Behavioral Sciences**

ANT 275	Language and Culture
ANT 320	Religion and Culture
ANT 358	Art and Culture
HSR 314	Death, Dying, and Grief
JOU 370	Principles of Advertising <b>OR</b>
MKT 308	Integrated Marketing Communication
PSY 315	Psychology of Human Sexuality
PSY 304	Consumer Psychology
PSY 340	Social Psychology <b>OR</b>
SOC 303	Social Psychology
PSY 345	Human Factors Psychology <b>OR</b>
PSY 348	Environmental Psychology
PRE 375	Principles of Public Relations
SOC 205	Current Social Issues
SOC 308	Social Organization
SOC 315	Marriage and the Family
SOC 369	Sex Crimes
SOC 342	Sociology of Aging <b>OR</b>
ANT 375	Anthropology of Aging
SOC 355	Sociology of the Environment
SOC 357	Guns and Society
SOC 360	Technology and Social Change
SOC 400	Urban Society

<b>TOTAL CREDITS</b>	<b>21</b>
Topics courses (for example, POP 394 Topics: Popular Culture) may be taken and applied toward the minor upon approval of the program director. Students who wish to substitute a course not listed above for an elective course must obtain prior approval from the program director.	

**Pre-Law**

**Location:** Founders Hall 436

**Telephone:** 859-572-5830

**Fax:** 859-572-6184

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

**Program Director:** Bruce McClure, Department of Political Science and Criminal Justice

**Department Coordinator:** Caroline Braden

**Minor in Pre-Law**

The minor in Pre-Law provides a coherent grouping of courses in the foundations and applications of the law. Specifically, the program is designed to acquaint students with:

- Different approaches to the study of law, including philosophical, sociological, political, and historical.
- The elements of legal reasoning.
- A body of case law in substantive areas.
- The skills necessary to succeed in a law school program including logic, research, writing, reading, and analytical thought.

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, and it is marked with an asterisk (\*). These prerequisites must be completed IN ADDITION TO other program requirements.

<b>Requirements for Minor: Pre-Law</b>		<b>Credits</b>
JUS 210	Legal Research	3
PHI 165	Intro to Logic	3
PSC 304	Introduction to Law <i>Prerequisite: PSC 102, 103 or 110</i>	3
PSC 305	The Judicial Process <i>Prerequisite: PSC 100, 102, 103 or 110</i>	3
Select any three courses from the following:		
PSC 307	Constitutional Law <i>Prerequisite: PSC 100, 102, 103 or 110</i>	3
PSC 308	Civil Liberties <i>Prerequisite: PSC 100, 102, 103 OR 110</i>	3
PSC 480	International Law <i>Prerequisite: PSC 100, 102, 103 or 110</i>	3
JUS 203	The Criminal Court <i>Prerequisite: JUS 101</i>	3
JUS 205	Criminal Evidence <i>Prerequisite: JUS 101</i>	3
JUS 231	Race, Gender and Crime	3
JUS 302	Criminal Law	3
JUS 303	Criminal Procedure	3
JUS 313	Rights of the Convicted	3
PHI 330	Philosophy and the Law	3
HIS 327	Anglo-American Legal History	3
<b>Core Credits</b>		<b>12</b>
<b>Additional Credits</b>		<b>9</b>
<b>TOTAL CREDITS</b>		<b>21</b>

**Concentration in Pre-Law**

Students considering law careers may choose a pre-law minor or may simply wish to fulfill their requirement for an area of concentration by taking the four political science courses listed below. It is recommended that students complete "PSC 100 American Politics" to the prerequisite requirement for all four of these courses.

Requirements for Concentration: Pre-Law		Credits
PSC 304	Introduction to the Law*	3
PSC 305	The Judicial Process*	3
PSC 307	Constitutional Law*	3
PSC 308	Civil Liberties*	3
<b>Program Credits</b>		<b>12</b>
<b>Additional prerequisite requirements (PSC 100)</b>		<b>3</b>
<b>TOTAL CREDITS</b>		<b>15</b>

**Religious Studies**

**Location:** Landrum Academic Center 217C

**Telephone:** 859-572-5259

**Fax:** 859-572-6086

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

**Web Address:** <http://philosophy.nku.edu/index.php/religious-studies-minor>

**Director:** Terry Pence, Department of Sociology, Anthropology, and Philosophy

**Other Key Personnel:**

Department Coordinator: Mindy Berry

Department Secretary: Jessica Whyte

**Minor in Religious Studies**

NKU's interdisciplinary religious studies program offers a 21-credit 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 experience, 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, and anthropology.

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		Credits
Category A: Religious Traditions and Sacred Texts – select 6 credits from the following:		
REL 200	World Religions and Cultures	6
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	
REL 394	Topics: Religious Studies (when topic applies)	

PHI 304	Zen	
PHI 312	Eastern Philosophy	
Category B: Philosophical, Ethical, and Theological Perspectives – select 3 credits from the following:		
REL 350	World Religions and Ethics	3
REL 360	Human Religious Experience	
REL 330	Contemporary Religious Thought	
REL 370	Religion and Science	
REL 394	Topics: Religious Studies (when topic applies)	
PHI 350	Philosophy of Religion	
Category C: Historical, Literary, and Scientific Perspectives – select 3 credits from the following:		
REL 301	Ancient Religions	3
REL 320	Religion in America	
REL 394	Topics: Religious Studies (when topic applies)	
ANT 320	Religion and Culture	
ENG 215	Greek and Roman Mythology	
ENG 315	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 305	Reformation Europe	
HIS 330	Jewish History	
PSY 494	Topics: Psychology	
SOC 430	Sociology of Religion	
Additional courses can be chosen from among all religious studies courses except those previously chosen to count for a category requirement.		
<b>TOTAL CREDITS</b>		<b>21</b>
At least 20 percent of the total required hours must be taken at NKU. Topics courses in other disciplines may be approved for religious studies categories with approval of religious studies program. Please contact the program to verify if the course applies. 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 Aboard.		

**Social Justice Studies**

**Location:** Mathematics Education Psychology Center 203

**Telephone:** 859-572-5604

**Fax:** 859-572-6592

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

**Web Address:** <http://ids.nku.edu/minors/socialjustice.php>

**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		Credits
SWK 106	Introduction to Social Justice	3
ANT 201	World Cultures	3
<b>OR</b>		
HIS 557	History of Indians of the United States	



ANT 330	Women, Gender, and Culture <b>OR</b>	3
WGS 250	Introduction to Gender Studies	
SOC 300	Race and Ethnic Relations <b>OR</b>	3
BLS 100	Introduction to Black Studies	
SWK 594	Topics: Issues in Social Welfare (Compassion, Empathy & Forgiveness in Social Justice)	3
Select two courses from the following:		
ANT 100	Cultural Anthropology	
ANT 201	World Cultures	
ANT 231	Modern American Indians	
ANT 273	Race, Gender and Culture	
ANT 301/ SOC 301	World Patterns of Race and Ethnicity	
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: Geography and the Human Landscape	
GEO 103	Geography of the Third World	
GEO 107	Diversity Mapped	
GEO 340	Sustainable Food Systems	
HIS 557	History of Indians of the United States	
HIS 551	History of Appalachia Since 1877	6
JUS 231	Race, Gender, and the Law	
PHI 323	Peace and War	
REL 250	Religion and Ethics	
SOC 300	Race and Ethnic Relations	
SOC 301	World Patterns of Race and Ethnicity	
SWK 594	Topics: Issues in Social Welfare (Applied Social Justice Research)	
WGS 310	Women, Wages, and Work	
WGS 150	Introduction to Contemporary Gender Issues	
WGS 250	Introduction to Gender Studies	
<b>Total Credits</b>		<b>21</b>

**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://hisgeo.nku.edu/programs/wgs/  
**Program Director:** Debra Meyers, Department of History and Geography  
**Other Key Personnel:**  
 Department Coordinator: Janice Rachford  
 Secretary: Lou Stuntz

**Women’s and Gender Studies Minor**

Women’s and Gender Studies (WGS) 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 semester hours, at least 12 of which must be 300-level or above courses. 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.

**Concentration in Women’s and Gender Studies**

The women’s and gender studies area of concentration requires a total of 12 semester hours (4 courses) of coursework at the 300 level or above. Students must achieve a C or better in all courses that apply to the area of concentration.

**Interdisciplinary Certificate**

**Geographic Information Systems**

**Location:** Griffin Hall 400  
**Telephone:** 859-572-6930  
**Fax:** 859-572-5398  
**E-mail Address:** wangh1@nku.edu  
**Web Address:** http://informatics.nku.edu/csc/gis  
**Program Director:** Hongmei Wang, Department of Computer Science

**Certificate in Geographic Information Systems**

A Geographic Information System (GIS) 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 (GPS) 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 and criminal justice. 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		Credits
GEO 415	Cartography	3
GEO 418	Geographic Information Systems	3

Select one course from the following:		
GEO 419	Remote Sensing of the Environment	
GEO 518	Geographic Information Analysis	3
CIT 352	Geographic Databases	
GEO 552	Spatial Databases	
Two of the following courses not counted above:		
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	6
CSC 450	Database Management Systems	
CSC 480	Computer Graphics	
CIT 472	Database Administration	
BIS 330	IT Project Management	
<b>TOTAL CREDITS</b>		<b>15</b>

# COURSE DESCRIPTIONS

## Course Description Notes

Northern Kentucky University has established abbreviations for its various disciplines. These abbreviations, which are printed below 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 are the number of classroom and lab/studio hours in the course. The university reserves the right to withdraw or modify courses of instruction at any time.

## Accounting Courses (ACC)

### ACC 200 Principles of Accounting I-Financial (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 INF 101.

Taught: Fall, spring, and summer

Preparation of primary financial statements: income statement, balance sheet, and statement of funds.

### 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

Accounting concepts for internal use of management in planning and control of operations.

### 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

Computerized lab focusing on technical accounting skills.

### 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.

Taught: Fall and spring

Financial accounting theory and practice in determination of income and valuation of assets and equities for external reporting; official pronouncements on generally accepted accounting principles; alternatives to these principles; accounting cycle, financial assets (cash, marketable securities, and receivables, inventories, and prepayments. Assessment test is given.

### ACC 301 Intermediate Accounting II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: junior standing; ACC 300 with a C.

Taught: Fall and spring

Financial accounting theory and practice in determination of income and valuation of assets and equities for external reporting; official pro-

nouncements on generally accepted accounting principles; alternatives to these principles; operating assets (tangible, intangible, and natural resources, long-term investments, current liabilities, long-term debt, owners' equity, and earnings per share.

### 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 and ACC 201 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 301 with a grade of C or better.

Taught: Fall and spring

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 paid or unpaid work experience related to accounting and coordinated by employer in conjunction with a member of accounting faculty. May be repeated to a total of 6 semester hours. Graded pass/fail.

### ACC 400 Auditing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ACC 310 and ACC 350 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 Accounting for Non-Profit Institutions (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

Problems of control of funds and other assets; accounting classifications and relationships; planning, performance measurement, reporting, and auditing from the viewpoint of the non-profit (including governmental organization. Open only to students certified as majoring in business or by consent of instructor.

**ACC 450 Management Cost Accounting II (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: ACC 310 and ACC 350 with grades 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 managerial 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

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. PREREQ ACC 600.

**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, 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 nonwestern 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. Offered every summer.

General education credit: Global Viewpoints

**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; de-

velopment from simple to more complex cultural systems. Offered every fall and spring.

General education credit: Cultural Pluralism

**ANT 202 Introduction to Physical Anthropology (3 credits)**

Hours: 3 classroom + 0 lab/studio

Co-requisites: ANT 202L.

Taught: Spring only

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: Spring only

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: Fall only

Methods of archaeological excavation and analysis; how archaeologists interpret excavated material and reconstruct prehistoric ways of life.

**ANT 215 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 5week session.

**ANT 230 North American Indians - SB (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Origin; traditional ways of life; current position in American society. Offered every fall.

General education credit: Cultural Pluralism

**ANT 231 Modern American Indians - SB (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

Current problems faced by Indian populations in North America; history of Indian-white and Indian-black relations; relations to federal government. Offered every spring.

General education credit: Cultural Pluralism

**ANT 245 Peoples of Latin America and the Caribbean - SB (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Contemporary cultures of Latin America and the Caribbean; problems of contact, colonization, acculturation, development of the area cultural

tradition, and contemporary urbanization. Offered every fall.

*General education credit: Cultural Pluralism*

**ANT 270 Native Australia and Oceania - SB (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Spring only*

Origin; traditional ways of life of native peoples of Australia, Polynesia, Micronesia, and Melanesia; modern conditions. Offered every spring.

*General education credit: Cultural Pluralism*

**ANT 275 Language and Culture (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ANT 100.*

*Taught: Fall only*

Methods and case studies in anthropological linguistics; relationship between language and culture; language structure.

**ANT 299 Culture and Language (3 credits)**

*Hours: 0 classroom + 0 lab/studio*

*Prerequisites: ANT 100.*

*Taught: Spring only*

Methods and case studies in anthropological linguistics; relationship between language and culture; language structure.

**ANT 301 World Patterns of Race and Ethnicity (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: SOC 100 or ANT 100.*

*Taught: Fall only*

Patterns of inter-group relations in multi-ethnic societies; similarities and differences between these and U.S. Same as SOC 301.

**ANT 307 Museum Methods (3 credits)**

*Hours: 2 classroom + 2 lab/studio*

*Prerequisites: Sophomore standing or consent of instructor.*

*Taught: Spring only*

Actual work experience in museums, stressing an anthropological and research orientation; history of museums and their role in the development of anthropology.

**ANT 308 Cultural Resource Management (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ANT 210.*

*Taught: Spring only-even yrs*

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: Spring only-odd yrs*

Explores the multiple aspects of cultural identity on the continent. Focuses on historical transformations in meanings of gender, age, and ancestry. Emphasis is laid on the impact of colonialism, urbanization, warfare, and illness on understandings of identity.

**ANT 310 African Arts (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 credit hours of in anthropology or art.*

*Taught: Fall only-even years*

Survey of African arts in their cultural context, including wood and metal sculpture, pottery, textiles, decorative arts, architecture, music, dance, and other arts.

**ANT 311 Museums in Contemporary Society (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall only-odd years*

A broad prospective on museum issues and practices. Readings, discussion, and written assignments will explore the historical, theoretical, and political dimensions of museums in contemporary societies. Students will evaluate virtual exhibits, study major museum and exhibit controversies, and examine debates on the politics of memory, context, and visual display.

**ANT 312 Social Organization (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ANT 100.*

*Taught: Fall only*

Study of "primitive," peasant, and urban social organization; associations based on kinship, ethnic affiliation, age, and gender.

**ANT 317 Ecological Anthropology (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ANT 100.*

*Taught: Spring only-odd yrs*

Examines the modern contributions of cultural ecology, ethnecology, and evolutionary ecology towards understanding ecosystem and cultural connections between human populations and their environment.

**ANT 318 Prehistoric Ecology (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 semester hours of anthropology or consent of instructor.*

*Taught: Fall only-odd years*

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: Spring only-even yrs*

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: Spring only-even yrs*

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: ANT100.*

*Taught: Spring only*

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 330 Women, Gender, and Culture (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: junior standing.*

*Taught: Fall only*

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: Spring only-odd yrs*

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, Mesoamerica, Egypt, and China, among others.

**ANT 335 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 336 Historical Archaeology (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 hours of anthropology or history.*

*Taught: Spring only-odd yrs*

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 (4 credits)**

*Hours: 4 classroom + 0 lab/studio*

*Prerequisites: ANT 100, junior standing, or consent of instructor.*

*Taught: Fall, winter, spring and summer*

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 (4 credits)**

*Hours: 3 classroom + 2 lab/studio*

*Prerequisites: ANT 100.*

*Taught: Fall only-odd years*

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: Fall only-even years*

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: Fall only-odd years*

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: Fall only-even years*

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: Fall only-even years*

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: Fall only-odd years*

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: Spring only*

Aboriginal cultures of Middle America; economic, social, political, and religious aspects of traditional and contemporary Aztec, Maya, and other Mesoamerican Indian cultures.

**ANT 363 Language and Thought (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ANT 100 and junior standing.*

*Taught: Spring only-even yrs*

Examines how the content of thought or knowledge is created, organized, and distributed in human communities. Topics include taxonomies, schemas, and models of cultural knowledge.

**ANT 370 Celtic Europe (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ANT 100.*

*Taught: Fall only*

Ethnographic examination of Celtic Europe. Brief look at Pre-Celtic Europe followed by appearance of Celts, earliest written descriptions of Keltoi, 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: Spring only-even yrs*

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: Spring only-odd yrs*

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: Spring only-odd yrs*

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.

**ANT 380 Origins of Civilization (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Spring only-even yrs*

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 382 Visual Anthropology (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Sophomore standing, or consent of instructor.*

*Taught: Fall only-even years*

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 anthropology.*

*Taught: Fall only-even years*

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: Fall only-even years*

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 401 Culture Theory (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ANT 312.*

*Taught: Spring only-odd yrs*

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: Spring only-even yrs*

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 Advanced Anthropological Concepts (1 credit)**

*Hours: 1 classroom + 0 lab/studio*

*Prerequisites: consent of instructor.*

*Taught: Fall and spring*

Assessment testing, directed readings and individual projects in anthropology. 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 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 extension 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 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*

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 Basic Drawing (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.*

*Co-requisites: ART 134.*

*Taught: Fall, spring, and summer*

Investigation in to the elements, 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 forms, qualities and characteristics of fourdimensional 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 221 Web Design for Non-Majors (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: INF 186 or INF 286.*

*Taught: Fall and spring*

Basic color theory; two-dimensional design; typography; layout; web design programs for non-majors. Basic Mac platform computer skills required.

**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. 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*

*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. All students majoring in art must register for and pass Portfolio Review after 60 semester hours of university course work or 21 semester hours in art. 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: Foundation Core.*

*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 Design for Artists (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ART foundations and beginning photography course ARTO 210, ARTO 211, ARTO 213.*

*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. Taught in Spring semesters.

**ART 331 Digital Design (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Taught: Variable, check with department*

Investigation into concepts, structures, and techniques necessary to produce sophisticated digital imagery using a variety of word and image programs.

**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 Special 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 450 Advanced Studio Seminar (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall and spring*

Criticism of work, practical gallery experience, and expansion of awareness of contemporary professional realities in the exhibition and sale of one's work.

**ART 494 Special 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.*

*Taught: Fall and spring*

Student will assist a current faculty member in the teaching of a course within the Department of Art. Student responsibilities/involvement would vary based on a written agreement with instructor.

**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 (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall and spring*

Projects, directed by faculty members, must be selected before registration. A maximum of 6 semester hours of independent study is applicable toward the major in art.

**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 practical experience in methods, procedures, and programming specific to professional exhibition venues in the visual arts.

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**Ceramics Courses (ARTC)****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.*

*Taught: Fall and spring*

Nature of clay and ceramic materials; traditional methods of pinch, coil, and slab formations. PREREQ's waived for non majors.

**ARTC 340 Wheel Throwing (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ARTC 240.*

*Taught: Fall and spring*

Basic orientation to wheel throwing; technique, form, and function; individual problem solving; maintaining and firing kilns; stoneware and firing techniques. May be repeated for a total of 9 semester hours.

**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 440 Advanced Ceramics (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: 9 credits of 300-level ceramics.*

*Taught: Fall and spring*

Exhibition of student initiative in developing as ceramic artist; personal development stressed. Students are expected to execute projects ex-

pressive of their cumulative knowledge and suitable for a graduating senior show; presentation includes written materials, photographs, and finished objectives. To be repeated a minimum of 6 semester hours or a maximum of 12 semester hours.

**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.

**ARTC 443 Kiln Construction (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ARTC 340.*

*Taught: Variable, check with department*

Theory and practice; experimentation with methods and materials.

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**Drawing Courses (ARTD)****ARTD 310 Intermediate Drawing (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: Foundation Core.*

*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.

**ARTD 410 Advanced Drawing (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ARTD 310 for 6 hours.*

*Taught: Fall and spring*

Students will work towards execution of a body of work expressive of their cumulative knowledge; life drawing encouraged; working towards a graduating senior show. To be repeated for a minimum of 6 semester hours or a maximum of 12 semester hours.

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**Visual Communication Design Courses (ARTV)****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 and ART 134.*

*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, ART 133 and ART 134.*

*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. COREQ. ARTV217 and ARTV283.

**ARTV 217 Typography I (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ARTV201.*

*Co-requisites: ARTV 215 and ARTV283.*

*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, ARTV283.*

*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, ARTV283.*

*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 ARTV315.*

*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 ARTD310.*

*Taught: Spring only*

Techniques of creative rendering.

**ARTV 330 Interaction Design for Visual Communication (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ARTV 283, ARTV317.*

*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 415 Visual Communication Design III (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ARTV 315, ARTV 317, ARTV 325, ARTV 330, ARTV417.*

*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: ARTV 215, ARTV 217, ARTV 283, ARTH 321, ARTV 315, ARTV 317 and ARTV325.*

*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 ARTV317.*

*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: ARTV 317, ARTV 315, ARTV 325, and ARTV330.*

*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, pictogrammatic, navigational/wayfinding, instructional, and educational topics.

**ARTV 427 Motion Design (3 credits)**

*Prerequisites: ARTV 317, ARTV 315, ARTV 325, and ARTV330.*

*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: ARTV 327 and ARTV425.*

*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 496 Visual Communication Design Internship (3 credits)**

*Hours: 3 classroom + 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)

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**Education Courses (ARTE)**

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**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: Foundation Core.*

*Taught: Fall only*

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: ARTE281.*

*Taught: Spring only*

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: Fall only*

Teaching methods, materials and inquiry for use in secondary art classrooms. Focus on curriculum development, assessment and classroom management. Includes practical field experience.

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**History Courses (ARTH)**

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**ARTH 101 Survey of Western Art I (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 103 Survey of Western Art III (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall and spring*

A study of key artists and art movements in Europe and America from the late nineteenth through twentieth century.

**ARTH 104 Survey of Asian Art (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall and spring*

Major styles of architecture, sculpture, printmaking, painting, and ceramics of India, South Asia, China, and Japan.

**ARTH 321 History of Visual Communication Design (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ARTH 103, ARTV 225, ARTV 226, AND ARTV283.*

*Taught: Fall and spring*

Survey of a history of graphic/visual communication design and typography including consideration of influential cultural forces, theories for design, and related fields; influences of fashion, industrial, and interior design, art, architecture, and technology discussed.

**ARTH 349 Women and Art (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Spring only*

Significant women artists in the history of Western art from antiquity through modern times; issues and themes affecting women's participation in the visual arts.

**ARTH 350 Ancient Art (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH104.*

*Taught: Variable, check with department*

Painting, Sculpture and Architecture of Egypt, Greece and Rome.

**ARTH 351 Medieval Art (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH104.*

*Taught: Variable, check with department*

Evolution of Medieval art from late Antiquity to the end of the Gothic period.

**ARTH 352 Northern European Art/Renaissance (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH104.*

*Taught: Variable, check with department*

Major artists of Europe during the 15th and 16th centuries. Discussion of the relationship of the Italian Renaissance to Northern European art and of the characteristics making Northern European art distinct from Italian.

**ARTH 353 Baroque Art (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH104.*

*Taught: Variable, check with department*

European painting, sculpture, and architecture from 1600 to 1750.

**ARTH 354 Art of the Nineteenth Century (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH104.*

*Taught: Variable, check with department*

Sculpture and Painting of Europe from the French Revolution to the end of the 19th century.

**ARTH 355 Art of the Twentieth Century (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH104.*

*Taught: Variable, check with department*

Major art styles in Europe and America.

**ARTH 356 American Art (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH104.*

*Taught: Variable, check with department*

Major development in the art of the U.S. from colonial times to the end of the 19th century.

**ARTH 357 Art of the Italian Renaissance (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH104.*

*Taught: Variable, check with department*

Art and Architecture of the Italian Renaissance during the 15th and 16th centuries.

**ARTH 358 History of Photography (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Survey of the major issues and developments in photography from 1835 to the present.

**ARTH 359 Arts and Crafts of Japan (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ARTH 104.*

*Taught: Variable, check with department*

Historical, cultural survey of Japanese arts and crafts; includes painting, printmaking, ceramics, textiles, gardening, Kabuki, and Noh drama.

**ARTH 360 African-American Art (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*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 contemporary trends in music and the performing arts.

**ARTH 452 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 (ART 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.

**ARTH 458 Art History: Methodology and Criticism (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ARTH 101, ARTH 102, and ARTH 103.*

*Taught: Variable, check with department*

A practical guide and theoretical study of art historical and critical methods.

## New Art Media Courses (ARTM)

**ARTM 250 Four Dimensional Studies (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ART 131 and ART 132.*

*Taught: Fall and spring*

Investigation of the fourth dimension as it relates to the process and experience of art, including the exploration of interactivity, site specificity, robotics, sound and digital video.

**ARTM 350 Video Installation and Sound (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ART 134.*

*Taught: Fall only*

This course will explore the conceptual components of video, installation and sound art while providing specific skills using non-linear editing software and creating site specific work.

**ARTM 394 Topics in New Media Art (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ART 134.*

*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. PREREQ's waived for non-majors.

**ARTM 450 Advanced Video Installation and Sound (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ARTM 350.*

*Taught: Fall only*

Students explore conceptual components of video art while learning advanced skills in pre through post-production. Including: film study, social theory, video art and their interrelationships. Students also learn advanced non-linear editing, sound techniques, and ways to exhibit video artwork that include installation, performance, and new genre.

**ARTM 451 Advanced New Media-Integrative Art (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ARTM 350 and ARTM 394.*

*Taught: Fall only*

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.

## Photography Courses (ARTO)

**ARTO 210 Basic Photography (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ART 123, ARTD 210, 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. Students are required to supply a digital SLR camera as well an external hard drive.

**ARTO 211 Photo for Visual Communication Design (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ARTV 224 and ARTV226.*

*Taught: Fall and spring*

Teaches visual communication design students the basics of digital photography including camera controls, shooting techniques, editing and lighting. Students incorporate their photos into design pieces. Digital SLR camera and external hard drive are required.

**ARTO 218 Study Abroad Beginning Photography (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Beginning Photography course for students traveling abroad. Instruction in exposure, composition, and traditional photographic techniques. 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.

**ARTO 310 Photography II (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ARTO210.*

*Taught: Fall and spring*

Continuation of ARTO 210 with addition of color, introduction to current software for photo editing and fine printing.

**ARTO 311 Intermediate Photography (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ARTO310.*

*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 Applied Photography I (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ART 131, ART 132, ART 133, ART 134 and ARTO310.*

*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 315 Photo-Documentary (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 318 Study Abroad Photography II (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ARTO 210.*

*Taught: Variable, check with department*

Intermediate 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.

**ARTO 320 Intermediate Digital Photography (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ARTO 310.*

*Taught: Fall and spring*

Continuation of technical issues from ARTO 310. Selection, masking, composite digital photographic techniques. Integration of digital technique into personal vision. Software intensive course.

**ARTO 383 Applied Photography Review (0 credits)**

*Prerequisites: ART 131, ART 132, ART 133, ART 134, ARTO 210, ARTO 310 and ARTO312.*

*Taught: Variable, check with department*

Review mechanism to create enrollment control for the Applied Photography Track. Faculty will review the student's photographic work done in ARTO 312 and other photo courses during a critique with the student. Students passing the review will be allowed to continue as Applied Photography students in either the BA or BFA program.

**ARTO 410 Advanced Photography (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ARTO311.*

*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 Applied Photography: Studio and Architecture (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ARTO 311, ARTO 312 and ARTO383.*

*Taught: Spring only*

Overview of commercial photography; studio illustration and architectural photography.

**ARTO 414 Applied Photography: Studio and Location (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ARTO 311, ARTO 312, and ARTO383.*

*Taught: Fall only*

Commercial photography techniques, studio portraits, environmental portraiture, fashion, color and industrial photography.

**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)

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### ARTP 230 Painting I (3 credits)

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ART 123 and ARTD 210.*

*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: ARTD 210 and 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 230.

### ARTP 333 Materials and Techniques in Painting (3 credits)

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: freshman core courses 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: ARTP330.*

*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)

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### ARTR 272 Introduction to Printmaking (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 Intermediate Printmaking (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 colagraphy. Repeatable to 6 semester hours.

### ARTR 374 Techniques in Printmaking (3 credits)

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: Foundations core.*

*Taught: Fall and spring*

Methods and processes in fine art printmaking in one or more of the following: relief, colagraphy; intaglio, lithography, mixed media, monotype, photo printmaking, screen printing; development of personal imagery. Repeatable to 12 semester hours.

### ARTR 375 Screen Printing (3 credits)

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: Foundations core.*

*Taught: Fall and spring*

Methods and processes in fine art screen printing including paper, screen filler, drawing fluid, and photo emulsion techniques. Development of personal imagery, and technical skill. Repeatable to 12 semester hours.

### ARTR 473 Advanced Printmaking (3 credits)

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ART 372, ART 373 or ART 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.*

*Taught: Fall and spring*

Independent study in advanced printmaking. Repeatable to 12 hours.

## Sculpture Courses (ARTS)

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### ARTS 262 Sculpture I (3 credits)

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ART 122.*

*Taught: Fall and spring*

Introduction to sculpture concepts, media, and techniques. PREREQ: ART 123 and ARTD 210 or consent of instructor for non-majors.

### 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: Fall and spring*

Methods and processes in sculpture with an emphasis on fabrication and casting techniques, personal artistic development and discipline awareness.

### ARTS 362 Topics in Sculpture: Concepts and Media (3 credits)

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: ARTS 262 or consent of instructor for non-majors.*

*Taught: Fall only*

In-depth exploration of sculptural media; conceptual development. May be repeated when topics vary for a minimum of 6 semester hours or a maximum of 9 semester hours.

### ARTS 460 Sculpture: Advanced Study (3 credits)

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: 9 credits of 300-level sculpture.*

*Taught: Fall and spring*

Visual, technical, and conceptual problems initiated by students; personal development; individual expression. Students are expected to execute a consistent body of work suitable for a senior show. May be repeated for a maximum of 12 semester hours.

## Astronomy Courses (AST)

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### 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*

### 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.

### 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, dynamics, origin, and evolution of stars, galaxies, and the universe within 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 spectrographs, 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*

Geological 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 KIN 280.*

*Taught: Variable, check with department*

Knowledge, skills, and values required for an entry-level certified athletic trainer to conduct a patient history, identify the parts of the evaluation process, and produce appropriate documentation associated with the process. The course will focus on pathology, etiology, clinical skills for assessment, proper care, and referral to other health care personnel when necessary.

#### **ATP 201 ROM, Goniometry, and Manual Muscle Test (1 credit)**

*Hours: 0 classroom + 2 lab/studio*

*Taught: Variable, check with department*

Knowledge, skills, and values required for an entry-level certified athletic trainer to conduct the basic physical assessments skills associated with orthopedic evaluation. COEREQ: ATP 200.

#### **ATP 280 Pre-Athletic Training (2 credits)**

*Hours: 2 classroom + 0 lab/studio*

*Prerequisites: Pre- Athletic Training major (XATH) or permit of ATEP Director COREQ: KIN 280.*

*Taught: Fall only*

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 ATEP 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 a 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 333 Lower Extremity Evaluation (2 credits)**

*Hours: 2 classroom + 0 lab/studio*

*Prerequisites: KIN 280, ATP 280, ATP 200, 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 personal 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 exami-

nation and clinical diagnosis of injuries to the lower extremity.

**ATP 334 Upper Extremity Evaluation (2 credits)**

*Hours: 2 classroom + 0 lab/studio*

*Prerequisites: ATP 333, BIO 208, BIO 208L, BIO 209, BIO 209L and KIN 280.*

*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 personnel 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: KIN 280, BIO 208 (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*

*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. CO-REQ: ATP 367.

**ATP 366 Athletic Training Clinical Practicum I (1 credit)**

*Hours: 0 classroom + 0 lab/studio*

*Prerequisites: ATP 200, ATP 201, ATP 280 and KIN 280.*

*Taught: Variable, check with department*

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 an Approved Clinical Instructor (ACI). 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: ATP 333, ATP 333L, ATP 334, ATP 334L and ATP 366.*

*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 examination of common injuries and conditions associated with the physical activity patient. Students complete 10 hours/per week (150 total) with an Approved Clinical Instructor (ACI). 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 a 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: ATP 333, BIO 208, BIO 208L, BIO 209, BIO 209L and KIN 280.*

*Taught: Fall only*

The principles necessary for an entry level certified athletic trainer to identify, assess, and pro-

vide 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: KIN 280, ATP 333, BIO 209 and BIO 209L.*

*Co-requisites: ATP 440L.*

*Taught: Fall only*

Provide knowledge, skills, and values that the entry level certified athletic trainer must possess to plan, implement, document, and evaluate the efficacy of therapeutic modalities in the treatment of injuries to and illness of athletes and others 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*

Knowledge, skills, and values required for an entry level certified athletic trainer must possess to plan, implement, document, and evaluate the efficacy of therapeutic modalities in the treatment of injuries to and illness of athletes and other involved in physical activity.

**ATP 430 Pharmacology for Athletic Training (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: KIN 280, ATP 333, BIO 208, 208L, and BIO 209, 209L; admission into the Athletic Training Program or permission of instructor.*

*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 333, ATP 334, BIO 208, BIO 208L, BIO 209, BIO 209L, KIN 280 and KIN 370.*

*Taught: Spring only*

Provides the knowledge, skills, and values that entry-level certified athletic trainers 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 others 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*

Knowledge, skills, and values required for an entry level certified athletic trainer must possess to plan, implement, document, and evaluate the efficacy of therapeutic exercise in the treatment of injuries to and illness of athletes and other involved in physical activity.

**ATP 450 Senior Teaching Seminar (1 credit)**

*Hours: 1 classroom + 0 lab/studio*

*Prerequisites: ATP 350.*

*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 467 Athletic Training Clinical Practicum IV (1 credit)**

*Hours: 0 classroom + 0 lab/studio*

*Prerequisites: ATP 366, ATP 435, ATP 367 and ATP 430.*

*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 an Approved Clinical Instructor (ACI).

**ATP 466 Athletic Training Clinical Practicum III (2 credits)**

*Hours: 0 classroom + 0 lab/studio*

*Prerequisites: ATP 425, ATP 425L, ATP 440, ATP 440L, ATP 335, ATP 335L, ATP 367.*

*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 30 hours per/week with an Approved Clinical Instructor (ACI). As a result of the clinical de-

mands students are not allowed to enroll in more than 3 additional credit hours.

**ATP 455 Current Issues in Athletic Training (3 credits)**

*Hours: 2 classroom + 0 lab/studio*

*Prerequisites: KIN 360; admission to the Athletic Training Education Program or consent of 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 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.

## 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 pre-college 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 General Biology - 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. A general education course (science inquiry).

*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.*

*Taught: Fall, spring, and summer*

Lab to accompany BIO 120.

*General education credit: Natural Science*

**BIO 121 Disease 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 pre-college 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 Disease and the Systems They Affect Laboratory - SL (1 credit)**

*Hours: 0 classroom + online 2 lab/studio*

*Prereq OR Co-req: BIO 121.*

*Taught: Fall and summer*

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 pre-college 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 pre-college curriculum courses.*

*Taught: Fall and spring*

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 pre-college curriculum courses.*

*Taught: Fall and spring*

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 pre-college 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. GENERAL STUDIES: Science inquiry. Suggested only for students majoring or minoring in biological sciences, other natural sciences or other pre-professional programs.

*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.

*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 organ-

isms 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*

*Co-requisites: BIO 150.*

*Taught: Fall and summer*

Biology issues and applications, methodology, career opportunities, and postgraduate options. Classroom discussions, faculty panels, and written essays. PREREQ OR

**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 + 4 lab/studio*

*Co-requisites: BIO 202.*

*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.

*General education credit: Natural Science*

**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 major or minor in biological sciences.

**BIO 209L Human Anatomy and Physiology 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 220 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 235 Costa Rican Natural History - AH (3 credits)**

*Hours: 2 classroom + 3 lab/studio*

*Taught: Variable, check with department*

Overview of political, ecological, developmental, and cultural interactions in Costa Rica. Pre-and-post-Colombian natural history. Stress on ecological problems and solutions. Required field trip to Costa Rica during spring break.

*General education credit: Global Viewpoints*

**BIO 245 Neurobiology (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: PSY 100.*

*Taught: Spring only*

Application of biological principles to nervous system functions. Survey of current scientific literature on neuronal function and pathology. Not for biology majors.

**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 and spring

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: 1-3 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 150 and 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 150 and 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.

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 150 and 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

Prereq OR Co-req: BIO 304.

Taught: Fall, spring, and summer

Sampling techniques, experimental design, and data analyses in ecological research. Field trips.

**BIO 305 Vertebrate Embryology (4 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 150 and BIO 151.

Co-requisites: BIO 305L.

Taught: Variable, check with department

Principles and mechanisms of embryonic development.

**BIO 305L Vertebrate Embryology Laboratory (0 credits)**

Hours: 0 classroom + 2 lab/studio

Co-requisites: BIO 305.

Taught: Variable, check with department

Laboratory to accompany BIO 305.

**BIO 308 Plant Systematic (4 credits)**

Hours: 2 classroom + 0 lab/studio

Prerequisites: BIO 150 and BIO 151.

Co-requisites: BIO 308L.

Taught: Fall only-odd years

Principles and practices; identification, classification, nomenclature, and evolution of vascular plants; major plant families of local flora.

**BIO 308L Plant Systematic Laboratory (0 credits)**

Hours: 0 classroom + 4 lab/studio

Co-requisites: BIO 308.

Taught: Fall only-odd years

Laboratory to accompany BIO 308.

**BIO 309 Plant Ecology (4 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 150, BIO 151 and BIO 304 or consent of instructor.

Co-requisites: BIO 309L.

Taught: Variable, check with department

Interrelationship of plants and their environment; classification, distribution, structure, and analysis of vegetation; plant succession; ecological methods. Field trips.

**BIO 309L Plant Ecology Laboratory (0 credits)**

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 309.

Taught: Variable, check with department

Laboratory to accompany BIO 309. Field trips.

**BIO 310 Plant Morphology (4 credits)**

Hours: 2 classroom + 0 lab/studio

Prerequisites: BIO 150 and BIO 151.

Co-requisites: BIO 310L.

Taught: Variable, check with department

Structure, life history, and relationships of representative plants.

**BIO 310L Plant Morphology Laboratory (0 credits)**

Hours: 0 classroom + 4 lab/studio

Co-requisites: BIO 310.

Taught: Variable, check with department

Laboratory to accompany BIO 310.

**BIO 311 Mycology (3 credits)**

Hours: 2 classroom + 0 lab/studio

Prerequisites: BIO 150.

Co-requisites: BIO 311L.

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 150 and BIO 151, or BIO 313.

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. Spring.

**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 150 and 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 Biometry (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 151 and 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 150, BIO 151 and BIO 349.

Taught: Fall and spring

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: C- or better in BIO 150, BIO 151 and CHE 121.

Taught: Spring only

Structure and function of cellular organelles; role of energy, membranes, nucleic acids, and proteins in cellular regulation; nature of nerve impulse.

**BIO 374 Biomathematics (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 151, MAT 112 or MAT 129 and STA 205.

Taught: Fall only-even years

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 394 Externship: Biological Sciences (1-2 credits)**

Hours: 1-2 classroom + 0 lab/studio

Prerequisites: BIO 150 and 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 396 Practicum: Veterinary Medicine (1-2 credits)**

Hours: 0 classroom + 4 lab/studio

Prerequisites: BIO 150, BIO 151, 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, BIO 151 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, BIO 349L, CHE 310 and CHE 311.

Co-requisites: BIO 400L.

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. CHE 482 recommended. Fall.

**BIO 400L Advanced Molecular Biology Laboratory (0 credits)**

Hours: 0 classroom + 4 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 Advanced Neurobiology (4 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 291W.

Co-requisites: BIO 402L.

Taught: Spring only-even yrs

Explore the higher functions of the nervous system in terms of the molecular and cellular biology.

**BIO 402L Advanced 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 150 and 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: 0 classroom + 0 lab/studio*

*Prerequisites: BIO 304.*

*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 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.

**BIO 407L Ornithology Laboratory (0 credits)**

*Hours: 0 classroom + 4 lab/studio*

*Co-requisites: BIO 407.*

*Taught: Spring only-even 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 150, BIO 151 and BIO 304.*

*Taught: Spring only-odd yrs*

Present and past geographical distribution of organisms.

**BIO 410 Conservation Biology (4 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: BIO 150, BIO 151 and BIO 304.*

*Taught: Spring only-even yrs*

Study of biological diversity and the modern extinction crisis: history, ecology and evolutionary biology, population genetics, wildlife and environmental management. Computer-intensive laboratory for modeling exploitation and conservation of populations, communities, and habitats.

**BIO 421 Mammalogy (4 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: BIO 150 and BIO 151.*

*Co-requisites: BIO 421L.*

*Taught: Variable, check with department*

Evolution, systematics, zoogeography, and natural history of mammals. Required field trips.

**BIO 421L Mammalogy Laboratory (0 credits)**

*Hours: 0 classroom + 3 lab/studio*

*Co-requisites: BIO 421.*

*Taught: Variable, check with department*

Laboratory to accompany BIO 421.

**BIO 422 Limnology (4 credits)**

*Hours: 2 classroom + 0 lab/studio*

*Prerequisites: C- or better in BIO 151, BIO 304 and CHE 121.*

*Co-requisites: BIO 422L.*

*Taught: Variable, check with department*

Physical, chemical, and biological properties of inland waters; organization of aquatic communities, phytoplankton, zooplankton, and benthos, trophic dynamics and eutrophication; limnological methods and techniques. (BIO 291W recommended.)

**BIO 422L Limnology Laboratory (0 credits)**

*Hours: 0 classroom + 4 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 150, BIO 151, BIO 291W, CHE 120 and CHE 121; or consent of instructor.*

*Co-requisites: BIO 425L.*

*Taught: Fall only*

Anatomical, histological, and physiological mechanisms of 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. Fall.

**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*

Biology of the immune response.

**BIO 430L Immunology Laboratory (1 credit)**

*Hours: 0 classroom + 3 lab/studio*

*Co-requisites: BIO 430.*

*Taught: Spring only-odd yrs*

Laboratory to accompany BIO 430.

**BIO 440 Animal Behavior (4 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Co-requisites: BIO 440L.*

*Prereq OR Co-req: BIO 291W.*

*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 years*

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 (4 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: BIO 150, BIO 151 and CHE 121 (with laboratory).*

*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 (0 credits)**

*Hours: 0 classroom + 3 lab/studio*

*Co-requisites: BIO 446.*

*Taught: Spring only-odd yrs*

Laboratory to accompany BIO 446.

**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 Introduction to Marine Science (4 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: BIO 151 and BIO 291W.*

*Taught: Variable, check with department*

Survey of physical, chemical, and biological oceanography; marine ecology, primary productivity, and biodiversity. Required field trip to marine research laboratory.

**BIO 461 Ecology and Geology of Coral Reefs (4 credits)**

*Hours: 0 classroom + 3 lab/studio*

*Prerequisites: Declared major at or above the sophomore level in a natural science and consent of instructor.*

*Taught: Variable, check with department*

Ecological and geological 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.

**BIO 462 Tropical Ecology (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: BIO 151 and BIO 304.*

*Taught: Spring only-even yrs*

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 463 Tropical Ecology Laboratory (1 credit)**

*Hours: 0 classroom + 10 lab/studio*

*Prerequisites: BIO 151.*

*Taught: Variable, check with department*

Practical experience in studying tropical biota.

Taught during spring break at location in tropics every other year. (BIO 462 recommended.)

**BIO 465 Regional Biology (3-5 credits)**

*Hours: 3-5 classroom + 0 lab/studio*

*Prerequisites: C- or better in BIO 151, 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 466 Animal Physiology (4 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: BIO 349 and CHE 310.*

*Co-requisites: BIO 466L.*

*Taught: Spring only*

Introduction to physiological processes of animals with emphasis on mammalian systems.

**BIO 466L Animal Physiology Laboratory (0 credits)**

*Hours: 0 classroom + 3 lab/studio*

*Co-requisites: BIO 466.*

*Taught: Spring only*

Laboratory to accompany BIO 466. Anatomy and histology of animal systems, and application of physiology concepts.

**BIO 467 Endocrinology (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: BIO 150, BIO 151 and CHE 310.*

*Taught: Fall only-odd years*

Human endocrine system, hormonal control of body processes, and hormonal disorders.

**BIO 470 Medical Microbiology (4 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: BIO 302.*

*Co-requisites: BIO 470L.*

*Taught: Fall only-even 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*

*Co-requisites: BIO 470.*

*Taught: Fall only-even years*

Laboratory to accompany BIO 470.

**BIO 474 Microbial Ecology (4 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: BIO 302.*

*Co-requisites: BIO 474L.*

*Taught: Variable, check with department*

Interrelationships of prokaryotic and eukaryotic microorganisms in aquatic and terrestrial environments; microbial sampling and analysis methods.

**BIO 474L Microbial Ecology Laboratory (0 credits)**

*Hours: 0 classroom + 2 lab/studio*

*Co-requisites: BIO 474.*

*Taught: Variable, check with department*

Laboratory to accompany BIO 474.

**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 viral infection.

**BIO 491 Comprehensive Examination (0 credits)**

*Hours: 0 classroom + 0 lab/studio*

*Prerequisites: 20 hours 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 + 3-9 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.*

*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. 00, and permission of instructor prior to registration.

**BIO 521 Mammalogy for Teachers (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Certification to teach middle or high school science or permission of instructor.*

*Taught: Variable, check with department*

A content course. Evolution, anatomy, adaptations, ecology and diversity of world mammals. Applicable for middle and high school. Not open to students who have taken BIO 421.

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**Black Studies Courses (BLS)**

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**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.

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**Business Courses (BUS)**

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**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 260 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 300 Career Enhancement (1 credit)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: junior standing.*

*Taught: Variable, check with department*

Designed to assist students planning careers in business with the transition from college to the workforce. Graded pass/fail.

**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.

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**Business Informatics Courses (BIS)**

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**BIS 300 Management Information Systems (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Junior standing, STA 212 or STA 205 and demonstrated competency in Word, Excel and PowerPoint, e.g.*

*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. , completion of INF 101 or equivalent transfer work or placement.

**BIS 305 Advanced Business Programming (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: BIS 110.*

*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: BIS 110 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 380 Quantitative Analysis with Excel (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: INF 105 (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 394 Topics: Information Systems (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department***BIS 399 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-Commerce (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 410 Advanced Analysis and Design (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: INF 260, BIS 310; junior standing.**Taught: Variable, check with department*

Systems design and implementation; design strategies, tools, and techniques for developing computer based systems; application of systems analysis, systems design, and systems development software to a systems development project. Open only to students certified as majoring in business or with consent of instructor.

**BIS 420 Knowledge Management and Enterprise Applications (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: Junior Standing; certified major in business informatics or consent of.**Taught: Variable, check with department*

This course explores strategic knowledge management and its applications 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 pro-

cessing, 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.**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.

## Career and Technical Education Courses (CTE)

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### 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.

### CTE 286 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.

### CTE 316 Intercultural Business Communication (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Junior classification or consent of instructor.*

*Taught: Fall and spring*

Written, oral, and nonverbal communication techniques in diverse domestic and multinational high-tech work environments for effective communication among employees and with customers and clients.

### CTE 380 Organization and Management of Career and Technical Education (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: CTE 181 or consent of instructor.*

*Co-requisites: curricular responsibilities as applied to career and technical education programs at all educational levels.*

*Taught: Spring only-odd yrs*

Laboratory and equipment planning and maintenance programs, classroom and laboratory management systems; purchasing, storage, dispensing, and inventory control procedures; public relations.

### CTE 382 Exceptional Students in Career/Technical Education (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall only-odd years*

Adapting career and technical school programs to accommodate integration of exceptional students in vocational laboratories; identification of characteristics, curricula, and methodological modifications and supportive services and personnel.

### CTE 385 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.

### CTE 487 Teaching Career/Technical Education Capstone (4 credits)

*Hours: 4 classroom + 0 lab/studio*

*Taught: Fall only-even years*

practicum approach for improvement of teaching: problems and techniques of planning and implementing instructional systems and teaching strategies. Satisfies instructional internship

requirement for teachers who have completed four years of experience.

### CTE 488 Problems in Career/Technical Education (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: CTE 280.*

*Taught: Fall only-even years*

Problems, issues, and trends. Students will complete a paper and present findings in a seminar.

## Cooperative Education Courses (CEP)

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### 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 Development staff. Cooperative Education is open to most majors on campus. Students must complete an informational session in the Career Development Center prior to enrollment. Academic credits are awarded for the cooperative work experience on a variable scale.

## Chemistry Courses (CHE)

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### 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*

*Prereq OR Co-req: 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; metabolism, pharmacology, toxicology, and nutrition. 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 elucidation 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 121 General Chemistry II (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in CHE 120.*

*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.*

*Prereq OR Co-req: CHE 121.*

*Taught: Spring and summer*

Continuation of CHE 120L.

### **CHE 125 Introduction to Chemistry & Biochemistry (1 credit)**

*Hours: 1 classroom + 0 lab/studio*

*Corequisites: CHE 120.*

*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.*

*Taught: Variable, check with department*

Detailed study of the elements found in groups 1,2, 13-18; sources, reactions, representative compounds.

### **CHE 310 Organic Chemistry I (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in CHE 121.*

*Taught: Fall and spring*

Introduction to the chemistry of carbon compounds; bonding, structure, and introductory analysis and synthesis.

### **CHE 310L Organic Chemistry I Laboratory (1 credit)**

*Hours: 0 classroom + 3 lab/studio*

*Prerequisites: C- or better in CHE 121L.*

*Prereq OR Co-req: CHE 310.*

*Taught: Fall and spring*

Introduction to the laboratory practice of organic chemistry; techniques and separations.

### **CHE 311 Organic Chemistry II (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in CHE 310.*

*Taught: Spring and summer*

Chemistry and properties of organic substances; reactions of functional groups, synthesis, and spectroscopic analysis.

### **CHE 311L Organic Chemistry II Laboratory (1 credit)**

*Hours: 0 classroom + 3 lab/studio*

*Prerequisites: 310L.*

*Prereq OR Co-req: CHE 311.*

*Taught: Spring and summer*

Reactions of organic compounds; identification of unknowns; synthesis.

### **CHE 320 Inorganic Chemistry (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in CHE 310.*

*Co-requisites: CHE 320L.*

*Taught: Spring only*

Chemistry of the elements and their compounds; coordination, bioinorganic and materials chemistry. Selected other topics.

### **CHE 320L Inorganic Chemistry Laboratory (2 credits)**

*Hours: 0 classroom + 6 lab/studio*

*Prerequisites: C- or better in CHE 310L.*

*Co-requisites: CHE 320.*

*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 CHE 310 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.*

*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 (2 credits)**

Hours: 2 classroom + 0 lab/studio

Prerequisites: C- or better in CHE 121.

Co-requisites: 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.

Co-requisites: CHE 340.

Taught: Fall only

Quantitative determination of the elements; traditional chemical methods and some instrumental methods of analysis.

**CHE 350 Instrumental Analysis (2 credits)**

Hours: 2 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

Co-requisites: CHE 350.

Taught: Spring only

Experiments designed to familiarize students with modern analytical instruments.

**CHE 360 Physical Chemistry I (3 credits)**

Prerequisites: C- or better in CHE 121 and MAT 229 or equivalent.

Corequisites: PHY 222 or 213.

Taught: Fall only

Classical thermodynamics, reaction equilibria, phase equilibria, and electrochemical systems.

**CHE 361 Physical Chemistry II (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: CHE 360, MAT 228 or MAT 229 and PHY 222 or 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

Prereq OR Co-req: CHE 361.

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: 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.

General education credit: Written Communication II

**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 399 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 survey 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-add 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 CHE 311 and CHE 340.

Taught: Spring only-even yrs

Chemistry as it applies to environmental problems and their solutions; analytical methods, energy needs, and biochemical application.

**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 years

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 years

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

Introduction to the chemistry of the molecules of life: carbohydrates, proteins, lipids; protein structure and function; enzyme mechanism;

membrane structure and function; introduction to metabolism.

### CHE 482L Biochemistry I Laboratory (1 credit)

*Hours: 0 classroom + 3 lab/studio*

*Prereq OR Co-req: CHE 482.*

*Taught: Fall only*

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 Advanced Biochemistry II Laboratory (1 credit)

*Hours: 0 classroom + 3 lab/studio*

*Prerequisites: CHE 482L.*

*Prereq OR Co-req: 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 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 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.

## Civic Engagement Courses (CIV)

### CIV 101 Introduction to Civic Engagement Scholars (1 credit)

*Hours: 1 classroom + 0 lab/studio*

*Taught: Variable, check with department*

This is the introductory course for the Undergraduate Certificate in Civic Engagement. Students explore how the idea of civic engagement intersects with their academic interests and programs. In addition, students will create a learning contract that will guide their work in the Certificate of Civic Engagement and Civic Engagement Scholars

**CIV 499 Civic Engagement Scholars Capstone (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

This is the capstone experience for the Undergraduate Certificate in Civic Engagement in the Civic Engagement Scholars program. Students will be involved in a community based learning experience which may include service learning, research and/or an internship to compliment their previous academic work in civic engagement. Details for individual projects will be determined and agreed to by the student, faculty advisor and Director of Service Learning

## Communication Courses (COM)

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**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 in developing, sustaining, and terminating social and personal relationships. Class may explore relational theories, concepts, and self-application.

**COM 548 Popular Culture Studies (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Students must have a 3.*

*Taught: Variable, check with department*

Upper-level introduction to critical issues and approaches in the study of recent American popular culture. Exploration of uses and being used in popular culture. Constitutive roles played by mass-mediated and interpersonal popular culture mechanisms, ideas, artifacts, and values. Emphasis on researching, writing, and articulating cultural criticism. 0+ GPA to enroll in the course.

**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.*

*Taught: Variable, check with department*

The examination of advanced cross-cultural, intercultural, multicultural, and international theory and research in relation to communication perceptions and practices. 0+ GPA to enroll in the course.

**COM 580 Sexuality and Communication (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*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.

## Communication Studies Courses (CMST)

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**CMST 101 Public Speaking - OC (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. A general education course (oral communication).

*General education credit: Oral Communication*

**CMST 110 Introduction to Communication Studies - OC (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 201 Principles of Effective Listening (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: CMST 101 or CMST110.*

*Taught: Spring only*

Understanding of listening behavior; methods of improving listening skills.

**CMST 220 Interpersonal Communication (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: CMST 101 or CMST110.*

*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 CMST110.*

*Taught: Fall and spring*

Theories and activities that increase understanding and 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 CMST110.**Taught: Fall only*

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 CMST110.**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 CMST110.**Taught: Spring only*

Research organization and argument development and testing, regulation, and cross-examination of a controversial issue.

**CMST 317 Gender and Communication (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: CMST 101 or CMST110.**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 CMST110.**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 335 Communication and Conflict (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: CMST 101 or CMST110.**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 CMST110.**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 CMST110.**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 CMST110.**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 CMST110.**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. Same as JOU 360 and EMB 360.

**CMST 370 Advanced Public Speaking (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: CMST 101 or CMST110.**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 CMST110.**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.**Taught: Fall, spring, and summer*

Selected placement of qualified students in off-campus speech communication related professions; experience in corporate training, speech writing, interviewing, sales, and groups, communication. 75.

**CMST 410 Rhetorical Theories (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: CMST 101 or CMST110.**Taught: Variable, check with department*

Theories of principal rhetoricians from ancient to modern times; classical, British, and contemporary periods of rhetoric.

**CMST 430 Communication Theories (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: CMST 101 or CMST110.**Taught: Fall and spring*

Theories of interpersonal, group, public, and mass communication; historical developments, paradigms, and research that shape communication theory construction. Same as JOU 430 and EMB 430.

**CMST 440 Communication Training and Development (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: CMST 101 or CMST 110 and junior standing.**Taught: Fall only*

Instruction in design and delivery of communication training programs for specific business contexts; adult learning principles, proposal devel-

opment, needs assessments, presentation skills, audio/visual aids, and evaluation procedures.

### **CMST 499 Independent Study (1-3 credits)**

*Hours: 0 classroom + 4-12 lab/studio*

*Prerequisites: junior or senior majoring or minoring in speech; a GPA of at least 2.*

*Taught: Variable, check with department*

Individually supervised work involving reading, research. Topic is selected before registration in conference with instructor. May be repeated for maximum of 6 semester hours. 50 or consent of instructor; approved independent study proposal.

## **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: Fall and spring*

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 and spring*

Origins and development of cinema as a multicultural medium of expression in the U.S. Relation of form and content to historical, economic, and cultural development in the U.S.

### **CIN 494 Studies in Cinema (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: CIN 200 or CIN 201 or CIN 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 099 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: Variable, check with department*

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: Variable, check with department*

Organization of the Windows operating system; installation, configuration and recovery; scripting using batch files; user management; basic server administration and directory services.

### **CIT 299 Independent Study (3 credits)**

*Hours: 0 classroom + 0 lab/studio*

*Prerequisites: consent of instructor.*

*Taught: Variable, check with department*

Directed study.

### **CIT 352 Geographic Databases (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in INF 282, or permission of the instructor.*

*Taught: Variable, check with department*

Introduction to fundamental spatial data organizing principles and spatial data modeling techniques underlying various spatial information systems; hands-on experience in manipulating geographic databases using a GIS software package. Emphasizes understanding and implementation of the principles and techniques.

### **CIT 371 Unix Systems (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in CIT 247 and INF 120.*

*Taught: Variable, check with department*

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 380 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, and network security.

### **CIT 383 Scripting I (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in INF 260 and CIT 370.*

*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 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 380.*

*Taught: Spring only*

Fundamentals of computer and network forensics; forensic duplication and analysis; reconstruction of computer activities; forensics tools.

### **CIT 436 Web Server Administration (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in INF 286 and CIT 370.*

*Taught: Spring only*

An applied, practical introduction to web and database administration; installing and configuring a web server; name resolution; web server security and maintenance; server-side technologies; database creation; storage management; performance tuning; backup and recovery; security management.

### **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 (IP, TCP, UDP); hubs, switches, and routers; Network topologies, subnetting, and routing, including VLAN's; capacity planning and redundancy; network troubleshooting using cable testers and network sniffers.

### **CIT 465 Storage Administration (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in CIT 271 and CIT 371.*

*Taught: Variable, check with department*

This course covers storage systems and devices, disk partitioning, files systems, RAID (Redundant Array of Inexpensive Disks) fundamentals, software/hardware RAID administration and trou-

troubleshooting, storage virtualization and Logical Volume Manager (LVM), 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 383 and CIT 447 or CIT 384.*

*Taught: Spring only*

Administering a networked computer system. Account, network configuration, security, file system and device management. Writing administrative scripts.

### **CIT 472 Database Administration (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in INF 282, CIT 271 and either INF 260 or CIT 383.*

*Taught: Fall only*

An applied, practical introduction to database administration; PL/SQL, installing and configuring a database server; create and configure a database instance; user management and security; backup and monitoring activities.

### **CIT 483 Scripting II (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in CIT 371 and CIT 383.*

*Taught: Variable, check with department*

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 380 and CIT 447.*

*Taught: Fall and spring*

Firewalls and intrusion detection systems; incident response; security protocols and VPNs; network server security; viruses and worms; wireless security basics. Network security architecture and policy development.

### **CIT 486 Three Tier Web Applications (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in CIT 436 and CSC 301.*

*Taught: Variable, check with department*

Design and implementation of a web site and its database backend. Client-side, database server-side, and web server issues associated with such a three-tier implementation will be investigated.

### **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 496 Senior Practicum (3 credits)**

*Hours: 0 classroom + 0 lab/studio*

*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. PREREQ CIT major, senior standing and approval of instructor.

### **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 instructor.*

*Taught: Fall and spring*

Fundamentals of UNIX system administration, including use of the shell, users and groups, cron. Computer networking basics, including networking fundamentals, LAN switching, and IP routing.

### **CIT 501 Scripting (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: permission of instructor.*

*Taught: Variable, check with department*

Introduction to programming in a scripting language, including applications to both system administration and web development.

### **CIT 520 Managing Computer Systems (4 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: EDG 602 or senior standing in Business Education, Organizational systems Technology, or Organizational Leadership degree programs.*

*Taught: Variable, check with department*

The setup, configuration, and administration of networked computer systems. Current personal computer operating system technology. Hardware installation and troubleshooting.

### **CIT 530 Computer Forensics (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: CIT 500 or consent of MSCIT director.*

*Taught: Variable, check with department*

Fundamentals of computer and network forensics; forensic duplication and analysis; reconstruction of computer activities; forensics tools.

### **CIT 565 Storage Administration (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: CIT 547 or consent of MSCIT director.*

*Taught: Variable, check with department*

This course covers storage systems and devices, disk partitioning, files systems, RAID (Redundant Array of Inexpensive Disks) fundamentals, software/hardware RAID administration and troubleshooting, storage virtualization and Logical Volume Manager (LVM), data backup and recovery, Network Attached Storage (NAS), and Storage Area Networks (SAN).

### **CIT 570 Advanced Network and System Administration (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: CIT 501 and CIT 547 or consent of MSCIT director.*

*Taught: Variable, check with department*

Administering a networked computer system. Account, network configuration, security, file system and device management. Writing administrative scripts.

### **CIT 572 Database Administration (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: CIT 500.*

*Prereq OR Co-req: CIT 501 or consent of MSCIT director.*

*Taught: Variable, check with department*

An applied, practical introduction to database administration; PL/SQL, installing and configuring a database server; create and configure a database instance; user management and security; backup and monitoring activities.

### **CIT 583 Scripting II (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: CIT 500 and CIT 501 or consent of the MSCIT director.*

*Taught: Variable, check with department*

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 or consent of MSCIT director.*

*Taught: Variable, check with department*

Firewalls and intrusion detection systems; incident response; security protocols and VPNs; network server security; viruses and worms; wireless security basics. Network security architecture and policy development.

**CIT 586 Three Tier Web Applications (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: CIT 536 or consent of MSCIT director.*

*Taught: Variable, check with department*

Design and implementation of a web site and its database backend. Client-side, database server-side, and web server issues associated with such a three-tier implementation will be investigated.

**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 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.

## Computer Science Courses (CSC)

**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 275 Topics in Programming (1-3 credits)**

*Hours: 1-3 classroom + 0 lab/studio*

*Prerequisites: Varies with topic.*

*Taught: Variable, check with department*

A project-oriented introduction to a contemporary programming language or development platform.

**CIT 536 Web Server Administration (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: CIT 500.*

*Prereq OR Co-req: CIT 501 or consent of MSCIT director.*

*Taught: Variable, check with department*

An applied, practical introduction to web server administration; installing and configuring a web server; name resolution; web server security and maintenance; server-side technologies; monitoring and analyzing the web environment.

**CIT 547 Network Design/Troubleshooting (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: CIT 500 or consent of MSCIT director.*

*Taught: Variable, check with department*

Network and transport protocols (IP, TCP, UDP); hubs, switches, and routers; Network topologies, subnetting, and routing, including VLANs; capacity planning and redundancy; network troubleshooting using cable testers and network sniffers.

**CSC 299 Directed Readings/Independent Study (1-3 credits)**

*Hours: 0 classroom + 0 lab/studio*

*Prerequisites: consent of instructor.*

*Taught: Variable, check with department*

**CSC 301 Web Programming (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in INF 282 and INF 286 and either INF 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 INF 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.

**CSC 360 Object-Oriented Programming II (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in INF 260 and B- or better MAT 119.*

*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 375 Intermediate Topics in Programming (1-3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: varies with topic.*

*Taught: Variable, check with department*

A project-oriented introduction to a contemporary programming language or development platform.

**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 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 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*

Circuit/packet switching networks, TCP/IP model, multimedia networks, socket programming, network protocol analysis and development.

**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 only*

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: Spring only*

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, pipe-lining, 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 360.**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 credit)***Hours: 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 (3 credits)***Hours: 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 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*

Direct link networks, packet switching networks, internet working (IP, end-to-end protocols (TCP), Windows socket programming.

**CSC 539 Software Testing and Maintenance (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: regular admission to the MSCS program.*

*Taught: Variable, check with department*

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 540 Software Engineering (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Regular admission to MSCS program or admission to Secure Software Engineering certificate program and CSC 502.*

*Taught: Variable, check with department*

Techniques in computer software specification, design, implementation, testing, documentation, and maintenance; development of large-scale project by students working in teams.

**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 or consent of MSCIT director.*

*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 560 Operating Systems (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Regular admission to MSCS program.*

*Taught: Variable, check with department*

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, pipe-lining, 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*

Basic concepts of two- and three-dimensional graphics including incremental methods, geometric transformations, windowing and clipping, hidden line and surface algorithms, and animations.

**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*

Cryptology 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: Variable, check with department*

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 593 Research in Seminar in Computer Science (1-3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Regular admission into MSCS program.*

*Taught: Variable, check with department*

Examination and presentation of contemporary research work in computer science.

**CSC 594 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 599 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.

## 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**Prereq OR Co-req: CMGT101.**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**Prereq OR Co-req: CMGT 101 and CMGT120.**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: CMGT121.**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: CMGT121.**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 301 Cooperative Construction Management (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: CMGT 222 and CMGT225.**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**Prereq OR Co-req: CMGT301.**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 306 Electrical Systems for Construction (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: CMGT222.**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: CMGT303.**Prereq OR Co-req: CMGT 305 and CMGT306.**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 CMGT301.**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/reshoring, 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 CMGT303.**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 CMGT329.*

*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: CMGT322.*

*Prereq OR Co-req: CMGT 303 and CMGT322.*

*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*

*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. PREQ: CMGT 222

**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: CMGT303.*

*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: CMGT324.*

*Taught: Fall and spring*

Principles of Project management and administration applied to construction projects. Inte-

grating 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: CMGT324.*

*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 424 Construction Renovation and Restoration (3 credits)**

*Hours: 2 classroom + 2 lab/studio*

*Prerequisites: CMGT324.*

*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: CMGT329.*

*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 track. The design of the building is taking place 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: CMGT324.*

*Prereq OR Co-req: CMGT420.*

*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.).

**MGT 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*

Concepts of operations in production and service organizations; application of quantitative and qualitative techniques to quality, human resources, forecasting, inventory, and process improvement problems.

**MGT 306 Project Management (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: MGT 300, MGT 305 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.

**MGT 320 Managing a Diverse Workforce (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: MGT 300.*

*Taught: Spring only*

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.

**MGT 415 Continuous Quality Improvement in Operations (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: MGT 300, MGT 305 and senior standing.*

*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. Open only to students certified as majoring in business disciplines.

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**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 9 hours.

**DAN 321 Modern Dance II (3 credits)**

*Hours: 0 classroom + 2-4 lab/studio*

*Prerequisites: DAN 221 or consent of instructor or chair.*

*Taught: Spring only*

Intermediate level.

**DAN 322 Jazz Dance II (3 credits)**

*Hours: 0 classroom + 2-4 lab/studio*

*Prerequisites: DAN 222 or consent of instructor or chair.*

*Taught: Variable, check with department*

Intermediate level.

**DAN 323 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: 2-4 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 375 Choreography (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: 6 semester hours of dance or consent of instructor or chair.*

*Taught: Variable, check with department*

Interpretations of ballets and stage musicals as expressed in movement and dance.

**DAN 426 Advanced Dance Seminar II (2-6 credits)**

*Hours: 0-2 classroom + 2-4 lab/studio*

*Prerequisites: consent of instructor or chair.*

*Taught: Variable, check with department*

More advanced level of dance training (all genres may be explored) for students majoring in theatre and for skilled dancers; all genres. May be repeated for credit.

**DAN 427 Dance History (3 credits)**

*Hours: 3 classroom + 0 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 428 Special Problems in Dance (3 credits)**

*Hours: 0 classroom + 2-6 lab/studio*

*Prerequisites: 3 semester hours of dance.*

*Taught: Variable, check with department*

Opportunity for additional advanced work in the dance student's area of concentration. The studio technique allows the student to choose from among electives in specific areas of interest.

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**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 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 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 215 Contemporary Economics Issues (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: sophomore standing.**Taught: Variable, check with department*

Basic principles and structure used in economic decision making; analysis of economic institutions, social issues, and the basic objectives of efficiency, equity, stability, and growth of economic activity. 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*

Role of major financial sectors in determining aggregate supply of money and credit; competing theories on demand for money and their policy implications of the effect of money supply on important economic aggregates.

**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 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: Variable, check with department*

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 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 Economic Development (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: ECO 200 and ECO 201.**Taught: Variable, check with department*

Changing economic circumstances over time; measuring economic development; factors causing economic development; domestic and foreign saving and investment; human capital and productivity; trade policy; exporting; other factors affecting economic development.

**ECO 344 Comparative Economic Systems (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: ECO 200 and ECO 201.**Taught: Variable, check with department*

Economic systems in today's world, especially England, France, Germany, the former Yugoslavia, Russia, China, India, Iran, and Saudi Arabia.

**ECO 350 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 394 Topics in Economics (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: ECO 200 and ECO 201.**Taught: Variable, check with department*

Specialized topics of faculty and student interest. May be repeated twice when topics vary.

**ECO 396 Internship: Economics (1-3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: ECO 300, ECO 301, ECO 310 and consent of instructor.**Taught: Fall, spring, and summer*

Selected placement of qualified students in supervised paid or unpaid off-campus economics related professions; experience in statistical problem solving and business policies and procedures. May be repeated to a total of 6 semester hours.

**ECO 494 Seminar in Economics (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: ECO 300 and ECO 301.**Taught: Fall and spring*

Capstone course for economics majors. Discussion and analysis of contemporary economic problems. Different topics offered each semester. Papers and written assignments ordinarily required.

**ECO 499 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.

**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. May be repeated for credit when topics vary. Open only to students majoring in education.

## Educational Specialties Courses (EDS)

### EDS 322 Instructional Planning for Inclusive Elementary Classrooms (2 credits)

*Hours: 2 classroom + 0 lab/studio*

*Prerequisites: EDS 360 or PHE 500 or permission of instructor.*

*Co-requisites: EDU 390 or EDU 391 or EDU 393.*

*Taught: Fall and spring*

Adapting classroom instruction to meet the needs of challenging students, collaboration skills for effective planning for inclusive practices.

### EDS 323 Instructional Planning for Inclusive Middle Level Classrooms (2 credits)

*Hours: 2 classroom + 0 lab/studio*

*Prerequisites: EDS 360 or PHE 500 or permission of instructor.*

*Co-requisites: EDU 391, EDU 343, EDU 344.*

*Taught: Fall and spring*

This course is designed to develop skills in 1) Designing classroom instruction that meets the diverse needs of all students, and 2) Collaborating with others as a means to support inclusive practices.

### EDS 324 Instructional Planning for Inclusive Secondary Classrooms (2 credits)

*Hours: 2 classroom + 0 lab/studio*

*Prerequisites: EDU 360 or PHE 500 or permission of instructor.*

*Co-requisites: EDU 393, EDU 319, EDU 324.*

*Taught: Fall and spring*

This course is designed to develop skills in 1) Designing classroom instruction that meets the diverse needs of all students, and 2) Collaborating with others as a means to support inclusive practices.

### EDS 360H Students with Exceptionalities Honors (2 credits)

*Hours: 2 classroom + 0 lab/studio*

*Prerequisites: PSY 100.*

*Taught: Fall and spring*

Nature and needs of students with exceptionalities; overview of educational programming and legal issues in special education.

### EDS 360H Students with Exceptionalities Honors (2 credits)

*Hours: 2 classroom + 0 lab/studio*

*Prerequisites: PSY 100.*

*Taught: Spring only*

Nature and needs of students with exceptionalities, overview of educational programming and legal issues in special education.

### EDS 362 Applied Behavior Analysis for Students with Disabilities (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Co-requisites: EDS 464, EDS 472, and EDS 473.*

*Taught: Fall only*

Principles of behavior analysis and research; classroom examples of behavior applications with students with disabilities.

### EDS 364 Learning and Behavior Disorders (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: EDS 360.*

*Taught: Spring only*

Nature and needs of students with learning or behavior disorders; factors to consider in providing appropriate educational programs.

### 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 472 Special Education Methods and Materials (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: EDS 364 COREQ: EDS 362, EDS 464, and EDS 473.*

*Taught: Fall only*

Materials, equipment, and methods for teaching students with learning and behavior disorders.

### EDS 473 Special Education Practicum (2 credits)

*Hours: 0 classroom + 4 lab/studio*

*Co-requisites: EDS 362, EDS 464 and EDS 472.*

*Taught: Fall only*

Experiences in application of assessment, behavior intervention, and instructional methods with students with learning and behavior disorders. Pass/Fail

### EDS 561 Mental and Orthopedic Disabilities (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Undergraduates must be admitted in to Teacher Education.*

*Taught: Fall and spring*

Characteristics and educational programs for students who have mental retardation or orthopedic and/or health impairments.

### EDS 562 Early Childhood Special Education Programs (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: EDS 360 or equivalent.*

*Taught: Spring and summer*

This course will emphasize the importance of understanding the natures of all children and how they learn. Students will learn to adapt curricula and intervention approaches for children with special needs building on a strong foundation of understanding what is common to all young children. The course will be organized according to the developmental domains. Special emphasis will stress the necessity of understanding the young child in the context of his or her family. Finally, while it is equally important students understand the developmental domains as well as an individual child's and his or her family's background, students must be able to synthesize all factors to create a complete view of the whole child.

### 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 588 Professional Laboratory Experiences (3-6 credits)

*Hours: 0 classroom + 3-6 lab/studio*

*Prerequisites: completed coursework for certification; valid teaching certificate.*

*Taught: Fall and spring*

Classroom field experience in added area of certification; individual project.

### EDS 599 Independent Study: Special Education (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.

## Education Courses (EDU)

### EDU 104 Orientation: Education Profession/Program (1 credit)

*Hours: 1 classroom + 0 lab/studio*  
*Taught: Fall and spring*

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 New 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 104H Introduction 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 Honors (3 credits)

*Hours: 3 classroom + 0 lab/studio*  
*Prerequisites: PSY 100.*  
*Taught: Fall only*

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: Junior standing.*  
*Taught: Variable, check with department*

Familiarization of prospective teachers with behavior and development of the young child in the classroom; development of activities, materials, methods, guidance, and parent relations; clinical and field experience.

### EDU 302 Teaching of Reading (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 of the reading process; scope and sequence of reading skills; plans for organizing classrooms for instruction.

### EDU 303 Early Childhood Admission Practicum (2 credits)

*Hours: 0 classroom + 4 lab/studio*  
*Prerequisites: 48 semester hours completed; 2.*  
*Taught: Fall and spring*

Field experience for students planning to teach in Kentucky's high-risk birth-through-three programs (Kentucky's Early Intervention System or in Kentucky's public school preschool programs, serving 3-to-5 year old children with and without disabilities; individual and group activities to assist students in making realistic career decisions. 5 overall GPA; acceptable score on standardized test.

### 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 305H Introduction to Education Honors (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 Practicum for Elementary Grades (1-2 credits)

*Hours: 0 classroom + 4 lab/studio*  
*Prerequisites: 48 semester hours completed; 2.*  
*Taught: Fall and spring*

Field experience for students planning to teach in elementary schools; individual and group activities to assist students in making realistic career decisions. 5 overall GPA; acceptable score on standardized test.

### 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*  
Skills and content of science within the framework of scientific method; concepts, methods, and materials.

### EDU 309 Admission Practicum for Middle Grades (1-2 credits)

*Hours: 0 classroom + 4 lab/studio*  
*Prerequisites: 48 semester hours completed; 2.*  
*Taught: Fall and spring*

Field experience for students planning to teach in middle schools; individual and group activities to assist students in making realistic career decisions. 5 overall GPA; acceptable score on standardized test.

**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.

**EDU 311 Admission Practicum for Secondary Grades (2 credits)**

*Hours: 0 classroom + 4 lab/studio*

*Prerequisites: 48 semester hours completed; 2.*

*Taught: Fall and spring*

Field experience for students planning to teach in middle or secondary schools; individual and group activities to assist students in making realistic career decisions. 5 overall GPA; acceptable score on standardized test.

**EDU 312 Teaching Social Studies in Early Grades (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 6 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 materials.

**EDU 313 Instructional Technology (2 credits)**

*Hours: 2 classroom + 0 lab/studio*

*Prerequisites: EDU 104.*

*Taught: Fall and spring*

Introduction to the use of technology (including hardware, software, and internet-based technologies) used in education; utilization of technology as a tool for teachers and students; instructional strategies for integrating technology; computer ethics.

**EDU 314 Classroom Management (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: admission to the teacher education program.*

*Co-requisites: EDU 390, EDU 302, EDS 322.*

*Taught: Fall and spring*

Recent 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*

This course will introduce you to the role of educational institutions in perpetuating racism and sexism in the U.S. You will learn concepts about: How 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.

*General education credit: Cultural Pluralism*

**EDU 317 Teaching of Phonics in Elementary/Middle School (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: EDU 302.*

*Taught: Variable, check with department*

The course content focuses on phonics as part of reading instruction. Students use children's literature to teach phonics in context. Requires admission to teacher education program.

**EDU 318 Classroom Climate Management: Middle School (1 credit)**

*Hours: 1 classroom + 0 lab/studio*

*Prerequisites: Admission to the teacher education program.*

*Co-requisites: EDU 304 and EDU 394.*

*Taught: Fall and spring*

Recent research and theory related to developing, maintaining, and managing an effective middle grades classroom climate.

**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*

Recent research and theory related to developing, maintaining, and managing effective secondary grades classroom climate.

**EDU 320 Working with Families of Young Children (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Study of factors contributing to effective relationship with families of young children in home and center-based settings. Course content includes historical overview; stressors affecting

families; strategies for facilitating involvement (e.g., parent workshops, parent-teacher conferences, home visits, family service plan, effective communication skills, adult learning principles).

**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; field based observation and teaching component.

**EDU 325 Educational Assessment Secondary (2 credits)**

*Hours: 2 classroom + 0 lab/studio*

*Prerequisites: Admission to the Teacher Education Program.*

*Co-requisites: EDU 396.*

*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: 2 classroom + 2 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 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: 2 classroom + 2 lab/studio*

*Prerequisites: admission to the teacher education program, or concurrently with admission semester.*

*Taught: Fall only*

Principles and practices related to teaching social studies in accordance with KERA: basic social studies skills, professional content, and planning, implementing, and evaluating instruction; campus and field based experiences.



**EDU 333 Teaching Math in the Secondary School (3 credits)**

*Hours: 2 classroom + 2 lab/studio*

*Prerequisites: admission to the teacher education program; MAT 120, MAT 220, and MAT 225 with a C or better.*

*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 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 school program; curriculum and lesson planning, 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; field based observation and teaching component.

**EDU 346 Teaching Science in Middle Grades (3 credits)**

*Hours: 2 classroom + 2 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*

Theory, content, and instructional strategies; field-based observation and teaching component.

**EDU 347 Teaching Math in Middle Grades (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: at least 12 semester hours in mathematics including MAT 140 and MAT 141 each with a minimum grade of C, admission to.*

*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; field-based observation and teaching component.

**EDU 390 Elementary Practicum 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*

Application of instructional theory to elementary classroom settings in reading, management, and assessment.

**EDU 391 Middle Grades Practicum I (2 credits)**

*Hours: 0 classroom + 4 lab/studio*

*Prerequisites: successful completion of EDU 309; admission to the teacher education program.*

*Co-requisites: EDU 343, EDU 344 and EDS 323.*

*Taught: Fall and spring*

Application of instructional theory to middle-grade classroom settings in reading, writing, management, inclusion, and assessment.

**EDU 392 Elementary Practicum II (2 credits)**

*Hours: 0 classroom + 4 lab/studio*

*Prerequisites: successful completion of Elementary Practicum I.*

*Co-requisites: EDU 306, EDU 308, EDU 312, and EDU 315.*

*Taught: Fall and spring*

Practice in planning and implementing instructional strategies in early elementary classroom settings.

**EDU 393 Secondary Practicum I (2 credits)**

*Hours: 0 classroom + 4 lab/studio*

*Prerequisites: admission to the teacher education program.*

*Co-requisites: EDU 324.*

*Taught: Fall and spring*

Practice in planning and implementing instructional strategies with secondary school students in area schools.

**EDU 394 Middle Grades Practicum 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*

Practice in planning and implementing instructional strategies with middle grades students.

**EDU 395 IECE Practicum I (3 credits)**

*Hours: 0 classroom + 4 lab/studio*

*Prerequisites: Admission to the teacher education program.*

*Taught: Fall and spring*

Application of learning theory to early childhood settings. Pass/Fail

**EDU 396 Secondary Practicum II (2 credits)**

*Hours: 0 classroom + 4 lab/studio*

*Co-requisites: EDU 325.*

*Taught: Fall and spring*

Application of instructional theory to secondary classroom settings in management, assessment, and planning and implementing effective instructional strategies.

**EDU 397 IECE Practicum II (3 credits)**

*Hours: 0 classroom + 4 lab/studio*

*Prerequisites: Successful completion of IECE Practicum I.*

*Taught: Fall and spring*

Practice in planning and implementing instructional strategies in early childhood settings. Pass/Fail

**EDU 399H International Admissions Practicum Honor (1 credit)**

*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 Practicum (6 credits)**

*Hours: 0 classroom + 6 lab/studio*

*Prerequisites: Overall 2.*

*Taught: Fall and spring*

Supervised culminating professional experience in programs for children age birth through five years and their families for students completing

Early Childhood Education (Birth to Kindergarten): Non Certification track. 5 GPA and senior standing.

**EDU 491 Student Teaching in IECE (2 credits)**

*Hours: 0 classroom + 12 lab/studio*

*Prerequisites: admission to early childhood education student teaching program.*

*Taught: Fall, winter, spring and summer*

Classroom experience through observing, planning and teaching supervised by an experienced teacher: eight-week assignment in an early childhood classroom grades Pre-school-Kindergarten; eight week assignment in an early intervention program ages birth-three years.

**EDU 492 Student Teaching in Elementary School with Special Education Endorsement (2 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 Student Teaching in Middle Grades with Special Education Endorsement (2 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 Student Teaching in Early Elementary School (2 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 Student Teaching in Middle Grades (2 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 Student Teaching in Secondary School (2 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 Student Teaching in Secondary Education with Special Education (2 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 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 8-12; 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. Taught in the summer every year.

**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*

*Prerequisites: Admission to teacher education program and EDU 360.*

*Taught: Variable, check with department*

Examination of issues, research, and trends in early care and education. This course content includes current research on hot topics in the field (e.g., universal preschool, accountability, child care quality rating system) study of public policy issues related to young children and role of the educator as the advocate for young children (0-8 years) and their families.

**EDU 551 Preschool Education and Programming (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Admission to the teacher education program; EDS 360.*

*Taught: Variable, check with department*

Activities and instructional resources appropriate for preschool children.

**EDU 552 Infant Toddler Education and Programming (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Admission to Teacher Education and EDU 360.*

*Taught: Variable, check with department*

Historical and theoretical examination of the interdisciplinary nature of development, play, environment, and learning during first three years of child's life within home- and center-based settings. Course content includes an overview of infant toddler care history developmentally, culturally, and individually appropriate practices in group care review of materials, activities, and techniques that foster learning, survey of classroom curriculum models, intentional planning of play in facilitating academic learning (e.g., math and science skills) in classroom transitions and the role of the classroom teacher within social, temporal, and physical learning environment.

**EDU 554 Language Development and Emergent Literacy (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Course content includes historical and theoretical concepts of language and literacy development, an introduction to authentic and meaningful assessments of early literacy development, and the incorporation of content-embedded reading/writing strategies across various early childhood settings.

**EDU 559 Assistive Technology for Early Childhood Classrooms (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Admission to teacher education program and EDU 313.*

*Taught: Variable, check with department*

Survey of classroom usage of technology in supporting instruction for meeting individual children's needs. The course content includes low-tech to high-tech assistive/adaptive technology review of research on using technology for instructional purposes at home and in the classrooms; and adult's role in fostering children's interaction with technology within a social environment.

**EDU 564 Collaboration in Early Childhood Education (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: EDS 562 or equivalent.*

*Taught: Variable, check with department*

Multidisciplinary and transdisciplinary teaming; communication skills necessary for collaboration; cultural differences, assistive technology, curriculum, and environmental designs with regard to collaborative early childhood programs.

**EDU 565 Early Childhood Assessments for Screening (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Spring only*

Overview of the purpose of assessment and critical components of an on-going assessment system, especially for screening young children. Course content includes analysis of recommended practices in assessment; definition of attributes that fit the purpose of assessment; and study of factors related to assessment tool rigor.

**EDU 566 Ongoing Assessment in Early Childhood Education (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

This course will provide for preservice and in-service educators guidelines to create an ongoing assessment system that incorporate both formal and informal, more authentic, performance or process based assessments without compromising developmentally appropriate practices. Future and current teachers will be able to utilize curriculum based assessment techniques to observe and document growth, development, and learning. They will be able to make valid inferences from observations and assessment procedures. They will be able to use information to collaborate with individual learners and their families to support learners progress. PREREQ EDS 562 or equivalent.

**EDU 568 Administration and Supervision in Early Childhood Education (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Admission to teacher education program and EDS 360.*

*Taught: Variable, check with department*

Development of policies and procedures for administration and supervision in diverse early childhood programs (including early family child-care homes); identification of funding sources; inquiry into ethical behavior, regulations and laws; supervisory skills and staff development; interrelationship of philosophy/mission, program model design, and program evaluation.

**EDU 575 Language Arts Methods Middle Grades (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: COEHS Advising Center permission.*

*Taught: Variable, check with department*

Objectives, curricula, and instructional materials to teach students the curriculum standards and

teaching methods necessary for a professional career as a middle school teacher.

**EDU 576 Science Methods Middle Grades (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: COEHS Advising Center permission.*

*Taught: Variable, check with department*

Skills and content of science within the framework of scientific method concepts, methods, and materials appropriate for middle grades teachers.

**EDU 577 Mathematics Education Middle School (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: COEHS Advising Center permission.*

*Taught: Variable, check with department*

Materials and methods for teaching problem solving, reasoning, communication, and connections of the concepts, skills, and relationships in middle school mathematics including number computation, geometry measurement, probability and statistics, and algebraic ideas.

**EDU 578 Social Studies Methods Middle Grades (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: COEHS Advising Center permission .*

*Taught: Variable, check with department*

Objectives, curricula, and instructional materials appropriate for the middle grades teacher.

**EDU 594 Topics: Education (1-3 credits)**

*Prerequisites: Varies with topic (see Schedule of Classes).*

*Taught: Variable, check with department*

Various advanced topics in education.

**EDU 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.

**EDG 544 Aquatic Ecology for Teachers (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

The sciences of biology, geology, meteorology, chemistry, and physical sciences are integrated to teach about water quality through field-based investigation of the Ohio River and streams. The course is taught during the summer at the Thomas More Ohio River Field Station and includes a follow-up day during September. Students apply the content and skills learned during the course to the State/ School District Science Standards and a lesson plan

**EDG 545 Fundamentals of Environmental Education (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall only*

A web-based course that provides and introduction to the field of environmental education, including the basic history and philosophy, methodologies, state initiatives, national standards, and current trends in the field. Required for Kentucky Environmental Education Endorsement.

**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 594 Topics in Education (3 credits)**

*Hours: 1-3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Individual or group in depth study.

## 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 intro to computer graphics and parametric

design, basic electronics, basic mechanics, engineering calculations; technology computer applications; and spreadsheets for engineering calculations.

*General education credit: Natural Science*

### **EGT 116 Introduction to Industrial Materials and Processes (3 credits)**

*Hours: 2 classroom + 2 lab/studio*

*Taught: Fall and spring*

Fundamentals of materials, processing methods, tools, and equipment used to produce metallic and nonmetallic products; destructive and non-destructive testing.

### **EGT 161 D.C. 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.

### **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 non-metallic; heat treatment and processing effects on microstructure; introduction to chemical properties; principles and applications of destructive and non-destructive testing.

### **EGT 265 Manufacturing Processes and Metrology (3 credits)**

*Hours: 2 classroom + 2 lab/studio*

*Prereq OR Co-req: 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 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 Statistics 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/nano-medicine, 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 man-

agement 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: EGT 300, 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 A.C. 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 (AC) 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.*

*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*

*Prereq OR Co-req: EGT 161.*

*Taught: Fall only-even years*

Digital circuits; logic, registers, counters, arithmetic circuits, and memories.

### EGT 348 Electric 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 365 Tool Design and Computer Numerical Control (3 credits)

*Hours: 2 classroom + 2 lab/studio*

*Prerequisites: EGT 212 and 265.*

*Taught: Fall only*

Design and selection of mechanical elements such as fasteners, cams, jigs, fixtures, and tools, utilizing Computer Numerical Control methods. This course also provides the knowledge needed to set up and program most C/NC machines equipped with EIA languages. The general application of information will be discussed, along with practical training on C/NC machines.

### 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, 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 designing different logics to control devices and a selection of sensors to gather and utilize data from the equipment at hand.

### EGT 399 Independent Study: Engineering Technology (1-3 credits)

*Hours: 1-3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

For advanced students seeking to study selected problems. PREREQ; consent of adviser.

### EGT 404 Signals and Systems (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: EGT 343 and MAT 227.*

*Taught: Spring only-odd 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, gage 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: 1 classroom + 4 lab/studio*

*Prerequisites: EGT 212.*

*Taught: Spring only-even yrs*

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; 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.

**EGT 465 Automated Manufacturing Systems (3 credits)***Hours: 2 classroom + 2 lab/studio**Prerequisites: EGT 320 and EGT 365.**Taught: Spring only-odd yrs*

Integrated manufacturing automation including CIM/FMS, system controls, fixed systems, robotics, and economics of automation.

**EGT 467 Advanced Microprocessors (3 credits)***Hours: 2 classroom + 2 lab/studio**Prerequisites: EGT 345.**Taught: Spring only-even yrs*

Advanced architectures, multitasking, virtual memory, networking, assembly language.

**Electronic Media Broadcasting (EMB)****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. Media literacy is defined as "being consciously aware of the messages and images we receive from the media, and then interpreting those messages and images

critically while considering the media's purposes and goals." 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. Throughout this semester, we will examine the influences and effects that media has on us. 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.

*General education credit: Culture and Creativity***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.

*General education credit: Cultural Pluralism***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 Introduction to Video: Single Camera Production (3 credits)***Hours: 2 classroom + 4 lab/studio**Prerequisites: C or better in EMB 140.**Taught: Fall and spring*

Introduction to small format, video program design and development; theory and practice of single camera videotaping and editing.

**EMB 215 Introduction to Audio Production (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: C or better in EMB 140.**Taught: Fall and spring*

Theory and practice in planning and producing a selective group of audio program elements typical of the present industry; coordinating the control console; audio recording, mixing, and editing.

**EMB 230 Broadcast Announcing (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: Completion of EMB 140 with a C or better.**Taught: Spring only*

Theory and practice in delivery techniques for radio and television, including work on voice, diction, and pronunciation; development of a cultural framework essential for versatility in announcing; interpretation of the most 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 story telling.

**EMB 265 Broadcast News Writing (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: Successful completion of General Education Written Communication II requirement.**Taught: Fall only*

Principles and practice 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.

**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 non-scripted multi-camera 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 Advanced News Production (3 credits)**

*Hours: 2 classroom + 4 lab/studio*

*Prerequisites: Completion of EMB 210 with a C or better.*

*Taught: Variable, check with department*

Advanced electronic news gathering and electronic field production techniques with emphasis on broadcast quality scripting, taping, 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 origin 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: Fall only*

Theory and practice in television performance techniques; interpretation and use of scripts in television; various non-scripted types of performance; work on the commercial, the public service announcement, the newscast, and the interview.

**EMB 320 Advanced Sound Production (3 credits)**

*Hours: 2 classroom + 4 lab/studio*

*Prerequisites: Completion of EMB 215 with a C or better.*

*Taught: Variable, check with department*

Practicum in advanced sound production; experience in production of various radio program formats including dramatic documentary, cultural affairs, and public affairs programming; advanced skills in commercial production, 4-track recording, and mix-down technique.

**EMB 325 Advanced Media Performance (3 credits)**

*Hours: 2 classroom + 4 lab/studio*

*Prerequisites: Completion of EMB 315 with a C or better.*

*Taught: Spring only*

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 361 Advanced Broadcast Newswriting (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Completion of EMB 265 with a C or better.*

*Taught: Variable, check with department*

Intensive practice of writing and editing news for the electronic (traditionally broadcast) media; advanced reporting and interviewing techniques; refinement of broadcast news writing style including conciseness, accuracy, editing and developing voiceovers and packages, and writing for particular media.

**EMB 370 International Media Systems (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Completion of EMB 110 with a C or better.*

*Taught: Variable, check with department*

Regional and global telecommunications and media systems in relation to social, cultural, economic, and political factors: comparative analysis of the major media systems of the world.

**EMB 380 Documentary Theory and History (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Completion of EMB 110 with a C or better.*

*Taught: Fall only*

Development of film and television documentary mode; theoretical paradigms used to critically study documentaries.

**EMB 394 Intermediate Topics: Radio-Television (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 radio-television. Topics vary from semester to semester. May be repeated once for credit.

**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.*

*Taught: Fall and spring*

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. 75.

**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 Advanced 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.

**EMB 422 Advanced Digital Video Editing (3 credits)**

*Hours: 3 classroom + 3 lab/studio*

*Prerequisites: C or better in EMB 210.*

*Taught: Variable, check with department*

Concepts and techniques of digital, non-linear video editing.

**EMB 423 Documentary Production (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

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**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.

**EMB 425 Studio 89 (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: Junior Standing.**Taught: Variable, check with department*

This course is a hands-on practical class that utilizes television multi-camera skills to produce a half hour in studio music program for television distribution. This course augments WKNU "Studio 89" live studio concert with a multicamera video production.

**EMB 426 Video Compositing (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: C or better in EMB 210.**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: Junior standing.**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: Spring only*

Practice in creative writing for broadcast, expressed in television and radio documentaries, instructional programs, and plays; writing and development of broadcast program units utilizing other literary forms (such as the short story and poem).

**EMB 460 Media Management (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: C or better in EMB 110.**Taught: Variable, check with department*

A course focused on organizing and successfully achieving a complete media production. Addresses planning, organizing, budgeting, motivation, staffing, and controlling media productions of various scales.

**EMB 499 Independent Study (1-3 credits)***Hours: 0 classroom + 4-12 lab/studio**Prerequisites: Junior or senior standing; minimum GPA of 2.**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. 50; written consent of instructor.

**English Developmental Courses (ENGD)****ENGD 080 Writing Laboratory (1 credit)***Hours: 0 classroom + 1 lab/studio**Co-requisites: ENGD 090.**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: ENGD 080.**Taught: Fall and spring*

Practice in a variety of writing forms, selecting topics, working through the writing process, and conferring with instructor and peers. Not applicable toward graduation. For students needing additional preparation for ENG 101.

**English Courses (ENG)****ENG 101 College Writing - WC (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: English and Reading*

*ACT/SAT/COMPASS scores as announced in current Schedule of Classes; OR placement test; OR, depending upon placement, ENGD 090 and/or RDG 091, or ENG1099.*

*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, winter, spring and summer*

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.

*General education credit: Written Communication II,**General education credit: Written Communication I***ENG 200 Understanding Literature - AH (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall, spring, and summer*

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. Required for the major in English.

**ENG 203 Survey of British Literature II (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 101 or 151 or equivalent.**Taught: Fall and spring*

Romantic period to the present; emphasis on more important writers with attention to their cultural background. Required for the major in English.

**ENG 204 Introduction to Writing Studies (3 credits)***Hours: 3 classroom + 0 lab/studio**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. PREREQ ENG 101 or ENG 151.

**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: Spring 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: Fall and spring*

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: Fall and spring*

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 and/or poetry.

**ENG 250 Introduction to English Studies (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ENG 101 or ENG 151.*

*Taught: Fall and spring*

Introduces students to the conventions, methodologies, assumptions and concerns of English Studies as a discipline, as well as to areas of specialization within the field.

**ENG 291 Advanced College Writing - WC (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ENG 101; Sophomore standing, at least 30 credit hours.*

*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.

*General education credit: Written Communication II*

**ENG 300 American Women Poets (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Lives and works of selected poets, including African-Americans. IDENTITIES. PREREQ 3 semester hours of literature.

**ENG 301 American Novel (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 semester hours of literature.*

*Taught: Variable, check with department*

Novels from various periods; techniques, ideas, and social implications. GENRES.

**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.

*General education credit: Culture and Creativity*

**ENG 304 Introduction to Post-Colonial Literature (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*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 later half of the twentieth century. IDENTITIES. PREREQ 3 semester hours of literature.

**ENG 305 American Women Writers (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Works representing a variety of literary forms by American women writers, from the 17th through the 20th century. IDENTITIES. PREREQ 3 semester hours of literature.

**ENG 306 Multicultural American Literature (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ENG 101, 151, or equivalent.*

*Taught: Fall only*

Study of writers in two or more ethnic American literatures e.g., American Indian, African American, Asian American, and Latino. IDENTITIES.

**ENG 308 Shakespeare I (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall and spring*

The early period, the English histories, the comedies, and Hamlet. TRADITIONS (PRE-1800, PRE-1900). PREREQ 3 semester hours of literature.

**ENG 309 Shakespeare II (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall and spring*

Plays not studied in ENG 308, including the romances, satires, and tragedies. TRADITIONS (PRE-1800, PRE-1900). PREREQ 3 semester hours of literature.

**ENG 313 Middle Eastern Literature (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

A survey of Middle Eastern literature in English and/or in translation from Arabic, Persian, Turkish, and/or Hebrew traditions. IDENTITIES. PREREQ 3 semester hours of literature.

**ENG 315 The Bible as Literature (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Nonsectarian presentation of biblical history, ideas and literary forms and techniques. GENRES. PREREQ 3 semester hours of literature.

**ENG 316 Social Issues in Literature - AH (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ENG 101 or ENG 151H or equivalent.*

*Taught: Fall and spring*

Allows students to develop skills in critical thinking and in understanding multiple perspectives and identities through the study of how literature represents social issues related to culture, politics, identity, technology, etc.

*General education credit: Culture and Creativity*

**ENG 318 The Short Story (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

An historical, critical, and evaluative study of the short story as a distinct literary genre. GENRES. PREREQ 3 semester hours of literature.

**ENG 320 Satire (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Techniques of the satirist and the development of satire, especially in prose. GENRES. PREREQ 3 semester hours of literature.

**ENG 322 Literature and Sexuality (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Spring only-odd yrs*

Literature and theory by writers who identify as lesbian, gay, bisexual, and/or trans-gendered or who represent these identities in literature. IDENTITIES. PREREQ ENG 101, 151H or equivalent.

**ENG 324 Holocaust Literature (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall only*

Historical and critical study of literature of and about the Holocaust, including Yiddish wartime writing, as well as thematic analyses of archetypes history, memory, and imagination Jewish responses to catastrophe and second-generation literature. IDENTITIES. PREREQ ENG 101, ENG 151H or equivalent.

**ENG 326 Literature and the Environment (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 semester hours of literature.*

*Taught: Variable, check with department*

Environmentally-focused works representing a variety of literary forms and genres issues include culture, identity, gender, ecology, and sense of place. IDENTITIES.

**ENG 331 Persuasive Writing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Theory and practice of contemporary and classical persuasion analysis of professional writing and student themes. WRITING STUDIES. PREREQ ENG 291 or equivalent.

**ENG 332 Fiction Writing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*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. PREREQ ENG 231.

**ENG 334 Poetry Writing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*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. PREREQ ENG 231.

**ENG 336 Creative Non-Fiction Writing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ENG 231.*

*Taught: Spring only*

Students hone craft and voice while writing and workshopping 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*

*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. PREREQ ENG 291 or equivalent.

**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 towards

literature and writing option for the English major. WRITING STUDIES.

**ENG 347 Technical Writing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*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. PREREQ ENG 291 or equivalent.

**ENG 348 Professional Editing in the Workplace (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Spring only*

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. PREREQ ENG 291 or equivalent with C or better.

**ENG 349 Web Writing for the Professions (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*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. PREREQ ENG 291 or equivalent.

**ENG 350 Literary Criticism (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 6 semester hours of literature.*

*Taught: Fall and spring*

Introduction to the practice of literary criticism. Various critical approaches to be introduced and applied to works of early and late periods of literature.

**ENG 353 Contemporary American Novel (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Themes and techniques of particular importance in contemporary American novels. GENRES. PREREQ 6 semester hours of literature.

**ENG 357 Biographical Writing (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: 6 semester hours of literature.**Taught: Variable, check with department*

Reading, writing about, and writing biography theory, practice, and analysis of biography as literary genre. CREATIVE WRITING.

**ENG 358 Writing in Creative Genres (3 credits)***Hours: 3 classroom + 0 lab/studio**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. PREREQ ENG 231.

**ENG 359 Writing in Workplace Genres (3 credits)***Hours: 3 classroom + 0 lab/studio**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. PREREQ ENG 291 or equivalent.

**ENG 362 Studies in Dramatic Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: 6 semester hours of literature.**Taught: Variable, check with department*

Study of various periods and kinds of dramatic literature. May be repeated when topics vary.

**ENG 365 American Folklore (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall and spring*

Study of the use of folklore in American literature. GENRES. PREREQ 3 semester hours of literature.

**ENG 366 Studies in Literary Genres (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: 6 semester hours of literature.**Taught: Variable, check with department*

Study of one or more genres from various periods and cultures; techniques, structures, sub-genres, and themes. May be repeated as topics vary. GENRES.

**ENG 368 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**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. PREREQ ENG 101 or ENG 151H with a grade of C or better.

**ENG 380 Studies in Literature and Other Arts (3 credits)***Hours: 3 classroom + 0 lab/studio**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. PREREQ 6 semester hours of literature.

**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 years*

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 years*

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**Taught: Variable, check with department*

Prosodic theory practice in interpretation of poetic texts. GENRES. PREREQ 6 semester hours of literature.

**ENG 385 Teaching of English I (3 credits)***Hours: 3 classroom + 0 lab/studio**Prereq OR Co-reg: 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 396 Internship: Editing I (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: 291 or equivalent.**Taught: Variable, check with department*

Introduction to evaluation of manuscripts, proof-reading, copy editing, and other responsibilities of journal editing under supervision of faculty sponsor. May not be used to meet requirements for the major in English.

**ENG 401 Chaucer (3 credits)***Hours: 3 classroom + 0 lab/studio**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). PREREQ 6 hours semester hours of literature.

**ENG 402 Middle English Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Language and literature of Anglo Saxon England. TRADITIONS (PRE-1800, PRE-1900). PREREQ 6 semester hours of literature.

**ENG 403 Old English (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Language and literature of Anglo Saxon England. TRADITIONS (PRE-1800, PRE-1900). PREREQ 6 semester hours of literature.

**ENG 404 Arthurian Legend (3 credits)***Hours: 3 classroom + 0 lab/studio**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). PREREQ 6 semester hours of literature.

**ENG 411 Elizabethan Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

The period of Marlowe, Sidney, Spenser, and Shakespeare. TRADITIONS (PRE-1800, PRE-1900). PREREQ 6 semester hours of literature.

**ENG 412 Seventeenth Century Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: 6 semester 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: 6 semester hours of literature.**Taught: Variable, check with department*

Shakespeare's predecessors and contemporaries. Pre-1800 British Literature credit. GENRES.

**ENG 416 Studies in Renaissance Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Works reflecting a common topic, genre, or literary movement. May be repeated for credit when content varies. TRADITIONS (PRE-1800, PRE-1900). PREREQ 6 semester hours of literature.

**ENG 418 Gender and Early Modern Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**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. PREREQ 6 semester hours of literature.

**ENG 420 Pre 1800 Exploration/Travel Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**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. GENRES. PREREQ 6 semester hours of literature.

**ENG 421 Restoration and Eighteenth Century Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**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). PREREQ 6 semester hours of literature.

**ENG 422 Studies in Eighteenth Century Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**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). PREREQ 6 semester hours of literature.

**ENG 425 Eighteenth Century British Novel (3 credits)***Hours: 3 classroom + 0 lab/studio**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). PREREQ 6 semester hours of literature.

**ENG 430 Advanced Poetry Writing (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Intensive advanced practice in poetry writing, concentrating on form and poetics. CREATIVE WRITING. Prereq: ENG 231.

**ENG 431 Screenwriting (3 credits)***Hours: 3 classroom + 0 lab/studio**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. PREREQ ENG 231 or equivalent.

**ENG 432 Novel Writing (3 credits)***Hours: 3 classroom + 0 lab/studio**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. PREREQ ENG 231.

**ENG 433 Novel Writing II (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Spring only*

Continuation of Novel Writing I focusing on issues specific to writing the middle and ending of a novel. CREATIVE WRITING. PREREQ ENG 432.

**ENG 442 Studies in British Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: 6 semester hours of literature.**Taught: Variable, check with department*

Works reflecting a common theme, genre, or literary movement. May be repeated for credit when topics vary. Post-1800 British Literature credit. TRADITIONS.

**ENG 446 British Novel (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: 6 semester hours of literature.**Taught: Variable, check with department*

Selected novels from various periods narrative technique, historical context, and social implications. GENRES.

**ENG 451 Romantic Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: 6 semester hours of literature.**Taught: Variable, check with department*

Genius, originality, irony, Christianity, nature, symbol, and myth in major romantic poets. TRADITIONS (PRE-1900).

**ENG 452 Victorian Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Poetry, fiction, prose, and myth in the age of Tennyson, Hardy, Carlyle, and Eliot. TRADITIONS (PRE-1900). PREREQ 6 semester hours of literature.

**ENG 454 Nineteenth Century British Novel (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Aesthetic and analytical approach to major British novels of the 19th century. GENRES. PREREQ 6 semester hours of literature.

**ENG 455 British Narrative Fantasy (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: 6 semester hours of literature.**Taught: Variable, check with department*

Survey of British narrative fantasy from the Middle Ages through the 21st century. GENRES.

**ENG 456 The Gothic in Literature and the Arts (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Study of the Gothic mode in literature and other arts, such as architecture, film, and the visual arts. GENRES. PREREQ 6 semesters of literature.

**ENG 461 Nineteenth Century American Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**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). PREREQ 6 semester hours of literature.

**ENG 462 Modern American Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**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). PREREQ 6 semester hours of literature.

**ENG 463 Studies in Regional American Literature (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*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. PREREQ 6 semester hours of literature or consent of instructor.

**ENG 464 Studies in American Literature (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Works reflecting a common theme, genre, era, or literary movement. May be repeated for credit when topics vary. TRADITIONS. PREREQ 6 semester hours of literature.

**ENG 465 Southern Women Writers (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Selected fiction by southern women writers, especially focusing on issues of race, class, gender, and regional identity. IDENTITIES. PREREQ 6 semester hours of literature.

**ENG 467 Studies in African-American Literature (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*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. PREREQ 3 semester hours of literature.

**ENG 468 Gender in 19th-Century American Literature (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Investigates ways in which gender informs literature in 19th century American society and how literature reflects gender. IDENTITIES. PREREQ 6 semester hours of literature.

**ENG 470 Twentieth Century British Novel (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Aesthetic and analytical approach to major British novels of the 20th century. GENRES. PREREQ 6 semester hours of literature.

**ENG 472 Studies in British Modernism (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Literature by such major authors as Woolf, Eliot, Yeats, and Joyce and their circles, and selected movements defining British Modernism, 1910 to 1950; disillusionment with Victorian values;

impact of World War I; innovation in aesthetic form. TRADITIONS (POST-1900). PREREQ 6 semester hours of literature.

**ENG 473 Studies in Contemporary British Literature (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Post-1950 British Literature by selected authors, reflecting aesthetic, social, political, intellectual, and economic trends. TRADITIONS (POST-1900). PREREQ 6 semester hours of literature.

**ENG 474 Studies in Postmodern Literature (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Twentieth-century literature written primarily after WWII and representing a conscious attempt to move beyond the modes and thematics of the High Modernists. May be repeated once for credit when topics vary. TRADITIONS (POST-1900). PREREQ 6 semesters of literature.

**ENG 475 Post-Colonial Literature and Theory (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*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. PREREQ 6 semester hours of literature.

**ENG 477 Irish Literary Renaissance (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*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. PREREQ 6 semester hours of literature.

**ENG 485 Feminist Literary Theory (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

A particular theoretical approach, issue, or problem. May be repeated for credit when content varies. TRADITIONS (POST-1900). PREREQ 3 semester hours of literature.

**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 (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ENG 396 or equivalent.*

*Taught: Variable, check with department*

Editorial duties associated with production of department and university publications under supervision of faculty sponsor. May not be used to meet requirements for the major in English.

**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 Literature and Language.*

*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 semesters 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 semesters 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 semesters 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 semesters of literature at the undergraduate level or graduate standing.*

*Taught: Variable, check with department*

Advanced study of literature from the Renaissance. 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 semesters 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: 6 semester hours of literature at the undergraduate level.*

*Taught: Fall and spring*

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: 6 semester units of literature and consent of instructor.*

*Taught: Variable, check with department*

Review of English grammar from pedagogical point of view. Does not count toward English major.

**ENG 540 Problems in English (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 6 semester hours of literature at the undergraduate level.*

*Taught: Variable, check with department*

Pedagogical topics such as rhetoric, literary analysis, and evaluation of student work; topics suitable for elementary and secondary teachers. May be repeated for credit when topics vary.

**ENG 541 Linguistics for Teachers of ESOL (2 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 6 semester units of literature and consent of instructor.*

*Taught: Variable, check with department*

Overview of linguistics for teachers of ESOL. 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 exploration of the elements and techniques 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 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 556 Composition Theories (1-3 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 in composition/rhetoric. May be repeated for credit when topics vary.

**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 British literature written in the twentieth century. May be repeated once for credit when topics vary. TRADITIONS (POST-1900)

**ENG 580 Studies in Literature (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 6 semester hours of literature at the undergraduate level.*

*Taught: Variable, check with department*

Special topics in literature; genres, interdisciplinary subjects, individual authors. May be repeated for credit when topics vary. TRADITIONS.

**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 (PRE-1900)

**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*

*Taught: Variable, check with department*

Current trends and challenges in publishing explored through research and practical editing of literary journals and other projects.

**ENGI 080 Writing Laboratory for International Students (1 credit)**

*Hours: 0 classroom + 1 lab/studio*

*Co-requisites: ENGI099.*

*Taught: Fall and spring*

Supplementary writing instruction in small-group setting. Offered on a pass/fail basis. Not applicable toward graduation.

**ENGI 099 Writing Workshop for International Students (3 credits)***Hours: 3 classroom + 0 lab/studio**Co-requisites: ENGI080.**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. Not applicable toward graduation.

**Entrepreneurship Courses (ENTP)****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. Enrollment priority given to ENTP minors. May not be substituted for ACC 200. ENTP 150 will be waived for students who have credit for ACC 200 and ACC 201. Same as ACC 150

**ENTP 200 Introduction to Entrepreneurship (1 credit)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Overview course using applied learning to introduce students to entrepreneurship. Open to students not certified as business majors.

**ENTP 294 Essentials of Entrepreneurship (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Course will cover selected topics in regards to entrepreneurship.

**ENTP 300 Principles of Entrepreneurship (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: Junior standing.**Taught: Fall and spring*

In this course, students will learn how to determine if an idea is a viable opportunity for value creation, how to apply critical thinking skills, and how best to seize the opportunity they have identified. These skills provide the foundations for creativity and innovation in business.

**ENTP 333 New Venture Management (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: ENTP300.**Taught: Fall and spring*

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 375 Marketing Strategies for Entrepreneurial Businesses (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: ENTP 300.**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.**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, IPOs and management buyouts.

**ENTP 378 Emerging Enterprise Law (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: ENTP 300.**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 Corporate Entrepreneurship (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: ENTP 300.**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 380 Enterprise Creation (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: ENTP 150 and ENTP300.**Taught: Fall only*

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 394 Topics: Entrepreneurship (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: ENTP 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 advisor's approval may be repeated up to three times for elective credit when topics change.

**ENTP 396 Entrepreneurial Internship (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: ENTP 333.**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 497 Writing the Business Plan (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: ENTP 150 or ACC 200 and 201, ENTP 333, 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 376 may be taken concurrently with ENTP 497 with permission of the department.

**ENTP 499 Independent Study (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: ENTP 300, senior standing 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. Open only to students certified as majoring in business or by consent of 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.

*General education credit: Natural Science*

### ENV 110H Honors Introduction to Environmental Science and Issues - 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 Environmental Issues including the biological and physical components of ecosystems, the impact of resource development, management and pollution on the functionality of eco-systems and the well being of the living community, 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 Careers (1 credit)

*Hours: 0 classroom + 3 lab/studio*

*Taught: Fall only*

An Introduction to environmental careers and post-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 22 on the ACT math section or equivalent.*

*Taught: Fall and spring*

An overview of water resources and threats. Focus is on U.S. waters, the Clean Water Act, storm water, and reducing storm water pollution of water resources.

*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 and spring*

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 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 380 Field Laboratory Methods in Environmental Sciences (2 credits)

*Hours: 2 classroom + 0 lab/studio*

*Taught: Variable, check with department*

This is a laboratory and field course designed to expose students to the methods of data and sample collection most commonly used in environmental sciences. Due to the variable nature of sampling and analytical techniques, this course will meet 4 hours per week. During laboratory exercises this will be 2 hours twice weekly; during field sampling this will be 4 hours on a Saturday.

### ENV 396 Internship: Environmental Science (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: permission 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.

### ENV 400 Environmental Science Seminar (1 credit)

*Hours: 1 classroom + 0 lab/studio*

*Taught: Spring only*

Discussion and analysis of current environmental problems. For juniors and seniors majoring in environmental science or minoring in environmental studies.

### ENV 492 Directed Research (1-3 credits)

*Hours: 0 classroom + 3-9 lab/studio*

*Prerequisites: ENV 291W and permission 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 (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Discussion and analysis of current environmental problems. For junior and senior students major/minor in environmental science. Spring.

### ENV 578 Environmental Issues for Educators (3 credits)

*Hours: 1 classroom + 4 lab/studio*

*Prerequisites: Permission 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 personal 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; COREQ: FIN 310.*

*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: 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: Prerequisites: C or better in FIN 305 and junior standing.*

*Taught: Variable, check with department*

Specialized topics of faculty and student interest. Topics vary and may include advanced derivative securities, financial engineering, advanced corporate finance, advanced financial planning, financial ethics, and risk management. May be repeated for a maximum of 6 semester hours if topics differ.

**FIN 405 Derivative Securities (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in FIN 315 and certified major in any business program.*

*Taught: Variable, check with department*

Definition and explanation of various risk transfer devices such as options involved in trading these securities, hedging and speculating with options and futures, supervision, regulation, and tax consequences of futures and options trading.

**FIN 415 International Finance (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: FIN 315 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 435 Case Studies in Corporate Finance (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: FIN 315 and FIN 345 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 345 with a grade of B or better and permission of the instructor.*

*Taught: Fall and spring*

An in depth continuation of the material covered in 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. May be repeated for credit.

**FIN 499 Independent Student in Finance (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: FIN 315 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.

**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.

*General education credit: Culture and Creativity*

**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 180 Individual Programmed Instruction: French (1 credit)**

*Hours: 1 classroom + 0 lab/studio*

*Prerequisites: FRE 101 or equivalent and consent of instructor.*

*Taught: Variable, check with department*

Individual work for students desiring additional instruction in grammar, pronunciation, vocabulary and cultural topics. May be repeated once for credit.

**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 grammar review and enhancement of language skills begun in FRE 201; consideration of cultural and literary subjects.

**FRE 280 Advanced Individualized Programmed Instruction in French (1 credit)**

*Hours: 1 classroom + 0 lab/studio*

*Prerequisites: FRE 201 or equivalent and consent of instructor.*

*Taught: Variable, check with department*

Individual work for students desiring additional instruction in grammar, pronunciation, vocabulary and cultural topics. May be repeated once for credit.

**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 movements 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**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. PREREQ FRE 202 or equivalent

**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 in 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; readings in scientific literature.

**FRE 520 Readings: French (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: 300- level French course.**Taught: Variable, check with department*

Various literary, linguistic, cultural, and pedagogical topics. 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 methodologies 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.

*General education credit: Global Viewpoints***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 103 Geography of the Third World (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

"Under-developed" countries; culture areas and economic regions in Africa, Latin America, and Asia.

**GEO 107 Diversity Mapped (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Regional and local patterns of race/ethnicity and gender of the U.S.; social, economic, and political factors that underlie these patterns; basic skills in reading and analyzing thematic maps.

**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 land-form patterns on the Earth's surface.

*General education credit: Natural Science*

**GEO 301 Urban Geography (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall only-odd years*

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 Economic Geography (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall only-even years*

Spatial distribution of primary, secondary, tertiary, quaternary, and quinary economic activities; theoretical approaches stressed.

**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 eco-systems.

**GEO 308 Climatology (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Spring only-odd yrs*

Physical basis of climate and weather; distribution of climatic types.

**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, especially African, Native American, and European.

**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 interpersonal skills, overview of map sources; surveying, interpretation of aerial photographs, remote sensing data and 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 the core elements of Geography, especially by focusing on and identifying, interpreting, and representing the spatial patterns of all the various things on the surface of the earth.

**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 370 Geography Methods and Applications (1 credit)***Hours: 1 classroom + 0 lab/studio**Prerequisites: Consent of instructor.**Taught: Fall only-odd years*

Applications of the core elements of geography and synthesizes fundamental geographical knowledge. Serves as a capstone for Geography major.

**GEO 385 Transformation of Geography in Modern Times (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: Sophomore standing or consent of instructor.**Taught: Fall only-odd years*

Considers the history and philosophy of geography in the modern Western world. Examines the core literatures, debates, research trajectories, professional applications, and methodologies

within the field of Geography in the modern period.

**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 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, bio-physical, 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 418 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 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 496 Internship: Geography (3-6 credits)***Hours: 3-6 classroom + 0 lab/studio**Prerequisites: 3 hours of geography and permission of instructor.**Taught: Variable, check with department*

Placement in public agency or private business for supervised experience in applying geographic concepts and techniques; meetings with faculty and with other internship students. Graded pass/fail.

**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*

Introduction to the 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 such environmental problem areas as energy use, population growth, deforestation, toxic wastes, landscape conservation, and sustainable uses, with a focus on classroom applications and management challenges; 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-even 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 (GER)

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**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 180 Individual Programmed Instruction: German (1 credit)***Hours: 1 classroom + 0 lab/studio**Prerequisites: consent of instructor.**Taught: Variable, check with department*

Individual work for students desiring additional instruction in grammar, pronunciation, vocabulary and cultural topics. May be repeated once for credit.

**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 280 Advanced Individualized Programmed Instruction: German (1 credit)***Hours: 1 classroom + 0 lab/studio**Prerequisites: consent of instructor.**Taught: Variable, check with department*

Individual work for students desiring additional instruction in grammar, pronunciation, vocabulary and cultural topics. May be repeated once for credit.

**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*

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**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. PREREQ GER 202 or equivalent

**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 French 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 in 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; readings of scientific literature.

**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; geological 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 120L This Dangerous Earth Laboratory - SL (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 - NS (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.

*General education credit: Natural Science*

### GLY 225 Prehistoric Life (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.

### GLY 230 Geology of National Parks - NS (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall and spring*

A study of the principals 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 240 Natural Resources, Energy and the Environment (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Taught: Spring only*

Geologic factors that affect the origin, development and use of our metallic, non-metallic and energy resources. Topics include the geologic processes of resource formation, geologic and economic factors that determine suitability for use and environmental impacts resulting from development.

### GLY 250 Geology: Northern Kentucky Area (3 credits)

*Hours: 2 classroom + 1 lab/studio*

*Taught: Summer only*

Geology and geologic history of Kentucky and the central Ohio River valley, including bedrock structure and stratigraphy, fossils, landforms and regional setting. Geologic hazards and processes currently modifying the geologic environment are emphasized. Field trips required.

### 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.*

*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.*

*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*

Geological 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 geological 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: 2 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: 1-3 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 or consent of instructor.**Taught: Fall and spring*

Repeatable to a maximum of 4 semester hours.

**GLY 397 Special Projects: Geology (1-3 credits)***Hours: 1-3 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; paleobiological, 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: 3 classroom + 2 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: 2 classroom + 4 lab/studio**Prerequisites: GLY 110.**Taught: Variable, check with department*

An introduction to the geology of our energy, metallic and non-metallic 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 Sedimentary 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 clastic and chemical sedimentary minerals. Students will use this analysis to identify sedimentary rocks and to evaluate sedimentary 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 geological materials and their geophysical properties in the shallow subsurface using geophysical field techniques in terms of basic theory, data collection and interpretation.

**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 ground-water 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 geological 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. Repeatable to a maximum of 6 semester hours but total semester hours in GLY 392 plus 492 may not exceed 6.

**GLY 495 Assistant: Undergraduate Laboratory (1-3 credits)***Hours: 1-3 classroom + 0 lab/studio**Prerequisites: Geology GPA of at least 3.**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. 00, junior standing and consent of instructor.

**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.

## Health Education Courses (HEA)

**HEA 125 Introduction to Health Education (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall and summer*

Health education as a profession and for program implementation in the schools, community, and

patient education; philosophies and beliefs regarding health education.

### 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 causes and remedial action. American Red Cross certification in basic first aid and CPR for students passing the examinations.

### HEA 160 Personal Health (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall and spring*

Holistic health; development of a healthy and aging personality, emotional health, social health, consumer health, and environmental health using a variety of methods including analysis and synthesis of research; application of these data in the decision making process critical to health lifestyle choices.

### 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*

*Prerequisites: Sophomore standing, HEA 125.*

*Taught: Spring only*

Understanding components of community health; organization, 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 Practicum 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*

*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. PREREQ (undergraduates): admission to teacher education and 9 semester hours in health education or consent of instructor.

### 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 Science Courses (HSC)

### HSC 105 Pharmacology (2 credits)

*Hours: 2 classroom + 0 lab/studio*

*Prerequisites: BIO 208 and BIO 208L with at 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 410 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 413 Aging in Today's Society (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall and spring*

Role of the older adult in society; promotion of health, support of continued learning, right to peaceful death. Theories of aging and ethical/legal concepts. Includes experiences with the older adult in the community, acute and long term care settings. Elective for BSN students. Open to all students.

### HSC 421 Healthcare Research (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Health Science major or consent of instructor.*

*Prereq OR Co-req: STA 205 or STA 212.*

*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 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 460 Concepts of Quality Patient Care (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*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. PREREQ Health Science major or consent of instructor.

### HSC 480 Senior Seminar (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Health Science major or consent of instructor.*

*Prereq OR Co-req: HSC 421 or NRS 320 and HSC 410.*

*Taught: Variable, check with department*

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 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.*

*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. 5 or consent of instructor; approved independent study proposal.

## History Courses (HIS)

**HIS 100 History of Europe to 1713 (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, 1713 to the Present (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall and spring*

Survey of Europe from the Ancient Regime 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 106 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.*

*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 demon-

strated outstanding potential in history. 25 or higher.

**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 reformations; 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: Variable, check with department*

Economic and political instability in the inter war years; World War II; European renaissance since 1945.

**HIS 310 Colonial America to 1763 (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall only*

Origins and development of the English colonies.

**HIS 311 Independence and Constitution 1763-1789 (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall only*

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 312 Federalist United States 1789-1828 (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Spring only-odd yrs*

Successful consolidation of the U.S. as a modern nation-state.

**HIS 313 Expansion and Conflict 1828-1861 (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Territorial, sectional, and cultural growth; nature and expansion of slavery and conflicts such as debate over the extension of slavery that culminated in the U.S. Civil War.

**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 319 Conflicting Historical Viewpoints (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Conflicting interpretations of some major historical events and trends of the contemporary world.

**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*

Origin, 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 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 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 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 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 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 English History from 1485 to 1760 (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 1760 - Present (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall only-even years*

From the accession of George III to the present.

**HIS 361 History of Germany (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 Germany from earliest times to the present.

**HIS 365 European Military History: Ancient World to the Renaissance (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Interaction between warfare and European society from the ancient world to the Renaissance.

**HIS 366 European Military History: Renaissance to the Modern World (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Interaction between warfare and European society from the Renaissance until the end of World War II.

**HIS 377 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-com-munist developments.

**HIS 379 History and Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 hours of history.**Taught: Spring only-odd yrs*

Study of selected literature and its interrelationship with history. Topics vary by instructor; may be repeated for credit when topics vary.

**HIS 380 History and Film (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Summer only*

Film as a reflection and a shaper of history. May be repeated for credit when topics vary.

**HIS 381 History and the Arts (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 hours of history.**Taught: Variable, check with department*

Study of a selected art form and its interrelationship with an historical era. Topics vary by instructor, may be repeated for credit when topics vary.

**HIS 382 History of Kentucky (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall and spring*

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 385 Art and Method of History (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall and spring*

Survey of major philosophies of history and of the meaning and nature of history; introduction to methods of historical research and writing. Required of all students majoring in history and of all students in the social studies area of concentration; should be taken if possible before other upper division work in history.

**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 (1-5 credits)***Hours: 1-15 classroom + 0 lab/studio**Prerequisites: Consent of department.**Taught: Variable, check with 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 401 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 409 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 413 History of Nazi Germany (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Spring only-even yrs*

Origins, dimensions, and downfall of Hitler's fascist state.

**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 417 Civil War and Reconstruction, 1860-1877 (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall only-even years*

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 419 Social and Economic History of US to 1865 (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall only-odd years*

Economy of the young nation and its relationship to social classes and changes, including gender issues.

**HIS 420 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 421 Cultural and Intellectual History of the US to 1875 (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Sophomore standing or consent of instructor.*

*Taught: Variable, check with department*

Exploration 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*

*Taught: Variable, check with department*

Principles, historical evolution, and particular nuances of U.S. foreign policy.

**HIS 424 American Diplomacy to 1900 (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

This is an advanced level survey of the personalities, events, and policies affecting American foreign policies from colonial times to 1900. Students will be exposed to readings and research utilizing methodologies in the subject area of American Diplomacy.

**HIS 425 American Diplomacy since 1900 (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

This is an advanced level survey of the personalities, events, and policies affecting American foreign policies from 1900 to the present. Students will be exposed to readings and research utilizing historical methodologies in the subject area of American Diplomacy.

**HIS 426 Historical Geography of the United States (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 431 Historical Themes in African-American History (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: HIS 102 and HIS 103 or HIS 106 and HIS 107.*

*Taught: Fall and spring*

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 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 European explorations to 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. This course satisfies Afro-American Studies history option.

**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 years*

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 465 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 years*

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 470 History of Flight (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 hours of history.*

*Taught: Fall only-odd years*

The evolution of human flight from its earliest representations in ancient mythologies to its modern achievements; multiple consequences of aviation in an international context.

**HIS 473 Battles and Behavior I: 1066-1836 (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: 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 years*

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 494 Topics: 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 496 Practicum: History (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 hours of history 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 499 Independent Study: 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*

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: 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.

**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 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 years*

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: Fall and spring*

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-odd yrs*

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 years*

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 561 Modernization in the Third World (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Rise of self-assertion of Third World nations; political, economic, social, and cultural problems of national development.

**HIS 565 The Vietnam War (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall only-even years*

Roots of Indo-Chinese war in traditional Vietnamese culture as affected by colonialism, nationalism, and Marxism; causes of U. S. military intervention, stalemate, and consequent American political crisis; impact of war on Vietnamese and American societies; debate over lessons of the war.

**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 years*

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*

Origin and development of the Common Law from Norman beginnings to the present; emphasis on the U.S.

**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*

Lecture class in topic not included in regular history curriculum. May be repeated for credit when topics vary.

**HIS 595 Study Abroad in History (1-5 credits)**

*Prerequisites: Departmental permission.*

*Taught: Variable, check with 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 596 Internship: History (3 credits)**

*Hours: 0 classroom + 3 lab/studio*

*Prerequisites: HIS 515 or consent and instructor.*

*Taught: Fall and spring*

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.*

*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 791 Public History Comprehensive Oral Examination (0 credits)**

*Hours: 0 classroom + 0 lab/studio*

*Prerequisites: Consent of Public History program coordinator.*

*Taught: Variable, check with department*

Cumulative examination based on student's coursework and study experiences in the program.

## Honors Courses (HNR)

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**HNR 101 Honors First-Year Seminar (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall only*

Introduction to the NKU Honors Program and the Honors style of learning. Emphasis on dialogic, seminar-style education Honors education within the context of the University's mission methods of independent student research and creative projects; collaborative learning.

**HNR 201 Arts, Theory, and the Public Sphere (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Spring only*

Analysis of the role of the arts and theory within the social and creative arenas, with a focus on cultural and socio-historical factors relating to the

creative process, as well as individual, national, and global existence.

**HNR 202 Commodities Crossing Global Cultures (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Spring only*

A survey of specific commodities, human and material, that unite and transcend geographic boundaries. This course will examine the social, political, environmental and artistic impact that the buying and selling of goods and services have on a global society.

**HNR 301 Honors Seminar: 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 general area of humanity and nature.

**HNR 302 Honors Seminar: 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 general area of humanity and society.

**HNR 303 Honors Seminar: 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 general area of humanity and the imagination.

**HNR 304 Honors Seminar: 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 general area of humanity and the machine.

**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 Seminar: Special Topics Honors (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 396 Internship: Honors (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Honors status.*

*Taught: Fall only*

Selected opportunities for students to serve as teaching assistants, research assistants or as assistants in designated business or community groups.

**HNR 490 Disciplinary Capstone Project (0 credits)**

*Hours: 0 classroom + 0 lab/studio*

*Taught: Fall and spring*

**HNR 491 Honors Capstone Project (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 Services/Mental Health Courses (HSR)

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**HSR 100 Orientation to Mental Health/Human Services (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 102 Practicum in Human Services (4 credits)**

*Hours: 4 classroom + 0 lab/studio*

*Prerequisites: consent of instructor.*

*Co-requisites: HSR 103.*

*Taught: Spring only*

Practicum experience in a clinical setting introducing students to activities of various agency workers and providing opportunities through supervised interaction with clients to begin developing clinical skills; training in observation, communication, and interaction with clients or patients as preparation for entrance into advanced clinical experience. Formerly HSR 106.

**HSR 103 Practicum Seminar I (2 credits)**

*Hours: 2 classroom + 0 lab/studio*

*Co-requisites: HSR102.*

*Taught: Spring only*

Seminar to accompany HSR 102; discussion of practicum experience and major clinical issues; reinforcing of developing skills.

**HSR 105 Counseling for Human Service Professions (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 216 Group Theories and Practice (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: HSR 105 or consent of instructor.*

*Taught: Spring only*

Small group dynamics and procedures within the mental health/human services field; experimental and cognitive activities introducing types and models of group work, stages of group development, group dynamics, leadership skills/strategies, interventions, and ethical considerations.

**HSR 300 Contemporary Issues: Mental Health (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 speaker sharing particular expertise in various issues.

**HSR 303 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 in Mental Health (4 credits)**

*Hours: 4 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 in Mental Health (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 306 Introduction to Gerontology (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

The field of gerontology; eclectic introduction to basic concepts of aging; examination of processes of aging; social aspects of aging; major policies and programs affecting older persons.

**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; inter-

viewing 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 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. abilitation, and government and other agencies.

### **HSR 404 Field Experience in Mental Health II (4 credits)**

*Hours: 4 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 Mental Health Counseling: Principles and Practice (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 450 Alcoholism: The Dysfunctional Family (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: HSR 340 or consent of instructor.*

*Taught: Fall only*

Alcoholism and the family system; needs, problems, dynamics; services and resources available; principles and strategies of family therapy; primary prevention. Formerly HSR 350.

### **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.*

*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 502 Positive Guidance Strategies for Early Childhood Practitioners (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: EDU 300 or PSY 220, or equivalent.*

*Taught: Variable, check with department*

Positive strategies for effectively handling many behavioral concerns that arise while working with young children with and without disabilities; observation and supervised participation in child development settings.

## **Human Resource Management Courses (HRM)**

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### **HRM 300 Introduction to Labor Relations (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: junior standing.*

*Taught: Fall only*

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 in on-line Schedule of Classes. May be repeated up to three times 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 480 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.**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. Open only to students certified as Human Resource Management majors.

**Informatics Courses (INF)****INF 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.

**INF 101H Honors Computer Literacy and Informatics (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Application of computer hardware, software, and computing techniques to common business problems and activities; microcomputers and business productivity packages including word processors, spreadsheets, databases, and other systems and applications software; extensive hands-on work in a graphical user environment.

**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.**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. Not open to students who have passed INF 260 or CSC 270 or CSC 360.

*General education credit: Natural Science***INF 128 Principles of Informatics (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: One of the following INF 101, INF 110, or INF 120.**Prereq OR Co-req: CMST 101 or CMST110.**Taught: Fall and spring*

Course developing awareness of an information-centric world. Information, communication, computation. Data-driven decision making strategies, information sharing technologies, data encoding, cooperative skills, knowledge sharing, organizing, media literacy. Preparation for upper-level courses in business informatics, communication, computer science, and other informatics disciplines.

**INF 186 Media Web Coding (3 credits)***Hours: 3 classroom + 0 lab/studio**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 260 Object-Oriented Programming I (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in MAT 109 (or higher) and 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.

**INF 260L Object-Oriented Programming Laboratory (1 credit)***Hours: 0 classroom + 2 lab/studio**Co-requisites: INF 260.**Taught: Fall and spring*

Laboratory to accompany INF 260 in which students gain hands-on experience in programming and using programming tools such as debuggers.

**INF 282 Introduction to Databases (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in MAT 109 (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 (or higher) and INF 110, INF 120 or CIT 140.*

*Taught: Fall and spring*

Introduction to computer networking; data communications; data transmission, data encoding, data link control; communications network techniques; network protocols; wireless networking; network server configuration; and planning and deploying a local area network. Open only to students certified as majoring in business or with consent of instructor.

**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 SML 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 345 Wireless Commerce Technology (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Junior standing or approval of instructor.*

*Taught: Variable, check with department*

This class covers content such as the basics of wireless technology, standards, and devices, and

the development of environments for creating mobile and wireless applications. The class will also discuss the opportunities for wireless technology in business and consumer services, advanced messaging (SMS and IM), wireless CRM, security and privacy issues, and business models.

**INF 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.

**INF 394 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 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 499 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 194 Seminar: Introductory Topics (1-3 credits)**

*Hours: 1-3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

This is an introduction to the interdisciplinary study of a specific topic or issue. May be repeated for credit when subjects differ.

**IST 494 Seminar: Advanced Topics in Integrative Studies (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall and spring*

This is the capstone course for undergraduate majors in Integrative Studies. It includes a project and portfolio that acts as a culmination of the Integrative Studies program.

**IST 499 Independent Study: Directed Readings (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Consent of instructor.*

*Taught: Variable, check with department*

Individualized study of a selected topic under the supervision of a faculty member. May be repeated for credit when topics vary.

**International Programs Courses (INTL)****INTL 300 International Service Learning Experience (1-3 credits)**

*Prerequisites: ENG 101, consent of instructor, and student must apply to the Office of International programs.*

*Taught: Variable, check with department*

Volunteer community service work outside the United States as part of an NKU team. Includes preparatory seminars and follow-up meetings. May be repeated twice. Graded Pass/Fail.

**Italian Courses (ITA)****ITA 101 Elementary Italian I - AH (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall only*

Fundamentals; introduction to Italian culture; development of skills in conversation, pronunciation, grammar, reading, and writing.

*General education credit: Culture and Creativity*

**ITA 102 Elementary Italian II (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ITA 101 or equivalent.*

*Taught: Spring only*

Continuation of ITA 101, additional grammar study, pronunciation drill, and new vocabulary; further practice in speaking and reading.

**ITA 201 Intermediate Italian I (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ITA 102 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.

**ITA 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.

## Japanese Courses (JPN)

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**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 180 Individual Program Instruction: Japanese (1 credit)***Hours: 1 classroom + 0 lab/studio**Prerequisites: JPN 101 or equivalent and consent of instructor.**Taught: Variable, check with department*

Individual work for students desiring additional instruction in grammar, pronunciation, vocabulary and cultural topics. May be repeated once for credit.

**JPN 201 Intermediate Japanese (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 280 Advanced Individualized Programmed Instruction: Japanese (1 credit)***Hours: 1 classroom + 0 lab/studio**Prerequisites: JPN 201 or equivalent and consent of instructor.**Taught: Variable, check with department*

Individual work for students desiring additional instruction in grammar, pronunciation, vocabulary and cultural topics. May be repeated once for credit.

**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 399 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.

## Journalism Courses (JOU)

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**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 297 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 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 350 Media Skills (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: JOU 220 or permission of instructor.**Taught: Fall only*

Introduction to multimedia journalism; use and study of contemporary tools for information gathering, reporting and interacting with audiences.

**JOU 360 Interviewing (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

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. Same as EMB 360 and CMST 360.

**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 371 Advertising Copywriting (3 credits)***Hours: 2 classroom + 2 lab/studio**Prerequisites: JOU 370.**Taught: Variable, check with department*

Principles and practice in writing effective advertising copy in printed media and broadcast.

**JOU 374 Digital Age Advertising Problems and Policies (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: Junior standing or consent of instructor.**Taught: Variable, check with department*

Trends and issues in advertising across media; emphasis on study of advertising campaigns.

**JOU 385 Mass Communication Law (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: JOU 110 or junior standing.**Taught: Fall and spring*

Explore First Amendment law and policy related to mass communication. Topics include libel, privacy, intellectual property, confidential sources, the courts, indecency, entertainment and social media, and access to information.

**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 supervising faculty member; junior or senior standing; and a GPA of at least 2.**Taught: Fall, spring, and summer*

Work at newspapers, online sites, public relations or advertising agencies, or other employers of communication professionals, in addition to some class meetings. 75.

**JOU 421 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 430 Communication Theories (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: at least junior standing.**Taught: Variable, check with department*

Theories of interpersonal, group, public, and mass communication; historical developments, paradigms, and research that shape communication

theory construction. Same as RTV 430 and CMST 430.

**JOU 440 Media Ethics (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 492 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 499 Independent Study: Journalism (1-3 credits)***Hours: 0 classroom + 4-12 lab/studio**Prerequisites: junior standing; a GPA of at least 2.**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. 50 or consent of instructor; approved independent study proposal.

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**Criminal Justice Courses (JUS)**

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**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 pun-

ishment, 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*

*Prerequisites: 101.*

*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: ENG 291, 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 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 401 Correctional Rehabilitation (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: JUS 101 and sophomore standing.*

*Taught: Fall only*

An overview of correctional counseling strategies and techniques; theoretical frameworks; diagnostic and classification schemes; principles of confidentiality; characteristics of program effectiveness.

**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: Spring 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 in-

cluding programs intended to prevent violence and treat victims and offenders of crime.

**JUS 435 Criminal Justice Administration (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: JUS 101 and Sophomore Standing.*

*Taught: Variable, check with department*

This course focuses on the principles of organization, administration, and function of criminal justice agencies. These agencies include law enforcement, the courts, and corrections. The course includes an examination of management approaches and problems in criminal justice, including the planning and evaluation techniques and the use of information systems.

**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 (1-6 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 exer-

case; 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 Introduction to Athletic Training (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. Fall/Spring

### **KIN 340 Exercise Physiology (4 credits)**

*Hours: 3 classroom + 2 lab/studio*

*Prerequisites: BIO 208.*

*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 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-psychosocial 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 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. Fall. Fall/Spring

### **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 of 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 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)***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.

**Korean Courses (KOR)****KOR 101 Elementary Korean I - AH (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Fundamentals; introduction to Korean culture; basic skills in pronunciation, conversation, reading, and writing.

*General education credit: Culture and Creativity***KOR 102 Elementary Korean II (3 credits)***Hours: 3 classroom + 0 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*

Administering and interpreting reading and writing tests; methods of teaching writing, reading, and study skills. Students receive hands on experience in Learning Assistance Center. Designed for prospective teachers and students interested in peer tutoring at NKU. 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: 3 classroom + 0 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.

**LAT 280 Studies in Latin Language and Literature (1-3 credits)***Hours: 1 classroom + 0 lab/studio**Prerequisites: LAT 102 or equivalent.**Taught: Variable, check with department*

Wide variety of authors, genres, and themes in Latin literature or specific problems in Latin grammar and style. May be repeated for credit once as topics vary.

**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 (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 appre-



ciation, 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 301 Leadership Practicum (1-3 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 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 and STA 205.*

*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 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 395 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 399 Independent Study: Organizational Leadership (1-3 credits)

*Hours: 0 classroom + 0 lab/studio*

*Taught: Fall, spring, and summer*

Individualized study of a special topic under supervision of a faculty member. May be repeated.

### LDR 460 Leading in Diverse and Global Contexts (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.*

*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.

## 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.

**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 access and assess 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 Practicum (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 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, 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 (1 credit)***Hours: 1 classroom + 0 lab/studio**Taught: Fall and spring*

Proportions, variation, equations of lines, systems of equations, square roots, quadratic formula, and parabolas. For students who completed MAH 095 or equivalent course. Does not apply toward graduation requirements. PREREQ C- or better in MAHD095

**MAHD 095 Essential Algebra - DM (4 credits)***Hours: 4 classroom + 0 lab/studio**Taught: Fall, spring, and summer*

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. Emphasis on applications. Does not apply toward any graduation requirements. PREREQ C- or better in MAHD 090 or placement by the Developmental Mathematics Program.

**MAHD 099 Intermediate Algebra - DM (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall, spring, and summer*

Factoring polynomials; rational expressions and equations; functions; equations of lines; radicals, rational exponents; quadratic equations; graphs of parabolas and circles. Does not apply toward any graduation requirements. PREREQ C- or better in MAHD 095 or in MAHD 094 or placement by the Developmental Mathematics Program.

**Mathematics Courses (MAT)****MAT 109 Algebra for College Students (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in MAH 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 250.

**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 099 or MAHD 095 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 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 128 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: B- 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 IC- 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

Prerequisites: MAT 128 or MAT 129.

Co-requisites: 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 228 Calculus C (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 227.

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; calculus of vector-valued functions. Credit is not given for both MAT 228 and MAT 229.

**MAT 229 Calculus II (5 credits)**

Hours: 5 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 234 Linear Algebra (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 228 or MAT 229.

Taught: Fall and spring

Vectors, matrix arithmetic, vector spaces, linear transformations, and applications.

**MAT 240 Geometry for Middle School Teachers (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 141.

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

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

**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*

Essentials of logic; methods of proof; set theory.

**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 years*

Mathematics from ancient times through development of the calculus.

**MAT 310 Elementary Theory of Numbers (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in MAT 302.**Taught: Spring only*

Numbers and their representation, divisibility, and factorization; prime numbers; congruencies; primitive roots; quadratic reciprocity; diophantine equations.

**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*

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 340 Probability II (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in STA 250 and (MAT 228 or MAT 229).**Taught: Fall only*

Further study of topics in STA 250; multivariate distributions, approximations, functions of random variables; additional topics.

**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 INF 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-even 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 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***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 430 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 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.

**MAT 494 Topics: Mathematics (3 credits)***Hours: 3 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 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 499 Directed Readings/Independent Study (1-3 credits)***Hours: 1-3 classroom + 0 lab/studio**Prerequisites: consent of instructor.**Taught: Variable, check with department*

**MAT 584 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 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 in mathematics and mathematics education. Topics vary.

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**Medieval Studies Courses (MDS)**

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**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.

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**Management (MGT)**

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**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.

**MGT 206 Management Assessment and Development I (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Identify and assess leadership competencies and values. Gather and interpret data assessing strengths and weaknesses and develop an individualized learning plan to maximize use of courses and experiences and to stimulate self-directed learning. Complete career research and service projects to begin developing analytical, networking, oral presentation, writing, leadership, problem solving, and teamwork skills. Open only to pre-management

**MGT 240 Managerial Communication (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ENG 101, CMST 101 and sophomore standing.*

*Taught: Variable, check with department*

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.

**MGT 300 Behavior in Organizations: Understanding Organizational Life (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 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.

**MGT 305 Operations Management in Business (3 credits)**

*Prerequisites: MAT 114 and STA 205 or STA 212;*

*junior standing.*

*Taught: Fall and spring*

Concepts of operations in production and service organizations; application of quantitative and qualitative techniques to quality, human resources, forecasting, inventory, and process improvement problems.

**MGT 306 Project Management (3 credits)**

*Prerequisites: MGT 300, MGT 305 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.

**MGT 307 Supply Chain Management (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites:*

*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 chain.

**MGT 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.

**MGT 320 Managing a Diverse Workforce (3 credits)**

*Prerequisites: MGT 300.*

*Taught: Spring only*

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.

**MGT 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.

**MGT 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.

**MGT 355 International Business Environment (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ACC 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.

**MGT 360 Comparative International Management (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: MGT 300 and junior standing.*

*Taught: Fall only*

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.

**MGT 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 adviser's approval may be taken up to nine hours for elective credit if topics differ.

**MGT 406 Leadership Assessment and Development II (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: MGT 310, MGT 340 and senior standing.*

*Taught: Fall and spring*

Identify and assess competencies and values relevant to leadership at the end of the program. Reflect on the development that has occurred during the program. Develop and implement lifelong learning plans for acquiring future needed competencies. Open only to students certified as Management majors.

**MGT 415 Continuous Quality Improvement in Operations (3 credits)**

*Prerequisites: MGT 300, MGT 305 and senior standing.*

*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. Open only to students certified as majoring in business disciplines.

**MGT 490 Business Policy (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: MGT 300, FIN 305, MGT 305, MKT 305, and senior standing.*

*Taught: Fall and spring*

Application of theoretical knowledge to a wide variety of business situations; development of top management viewpoint in developing and assessing corporate strategy; case method and classroom presentations. Open only to students certified as majoring in business disciplines; recommended to be taken during the last 18 semester hours of business coursework.

**MGT 499 Independent Study: Management (1-3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: MGT 300 and consent of instructor.*

*Taught: Variable, check with department*

Students pursue a topic or project of interest to them. Meeting times arranged with instructor. Open only to students certified as majoring in business or by consent of instructor.

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**Military Science Courses (MSC)**

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**MSC 101 Leadership and Personal Development (1 credit)**

*Taught: Fall, winter, spring and summer*

**MSC 102 Leadership Lab (1 credit)**

*Taught: Fall, winter, spring and summer*

**MSC 103 Intro to Tactical Leadership (1-3 credits)**

*Taught: Fall, winter, spring and summer*

**MSC 104 Leadership Lab (1-3 credits)**

*Taught: Fall, winter, spring and summer*

**MSC 121 Foundations of Officership (1 credit)**

*Taught: Fall, winter, spring and summer*

**MSC 121L Leadership Lab I (1 credit)**

*Taught: Fall, winter, spring and summer*

**MSC 201 Innovative Team Leadership (3 credits)**

*Taught: Fall, winter, spring and summer*

**MSC 202 Leadership Lab (1 credit)**

*Taught: Fall, winter, spring and summer*

**MSC 203 Foundations of Tactical Ldrshp (3 credits)**

*Taught: Fall, winter, spring and summer*

**MSC 204 Leadership Lab (1-2 credits)**

*Taught: Fall, winter, spring and summer*

**MSC 220 Individual Leadership Studies (2 credits)**

*Taught: Fall, winter, spring and summer*

**MSC 220L Leadership Lab II (1 credit)**

*Taught: Fall, winter, spring and summer*

**MSC 221 Leadership II (2 credits)**

*Taught: Fall, winter, spring and summer*

**MSC 221L Leadership II Lab (0 credits)**

*Taught: Fall, winter, spring and summer*

**MSC 301 Adaptive Team Leadership (3 credits)**

*Taught: Fall, winter, spring and summer*

**MSC 303 Leadership Under Fire (3 credits)**

*Taught: Fall, winter, spring and summer*

**MSC 304 Leadership Lab (1 credit)**

*Taught: Fall, winter, spring and summer*

**MSC 321 Leadership and Problem Solving (3 credits)**

*Taught: Fall, winter, spring and summer*

**MSC 321L Leadership Lab III (1 credit)**

*Taught: Fall, winter, spring and summer*

**MSC 322 Advanced Military Tactics (3 credits)**

*Taught: Fall, winter, spring and summer*

**MSC 322L Fundamentals of Tactis Lab (0 credits)**

*Taught: Fall, winter, spring and summer*

**MSC 403 Leadership in A Complex World (3 credits)**

*Taught: Fall, winter, spring and summer*

**MSC 404 Leadership Lab (1 credit)**

*Taught: Fall, winter, spring and summer*

**MSC 421 Leadership and Management (3 credits)**

*Taught: Fall, winter, spring and summer*

**MSC 421L Leadership Lab IV (1 credit)**

*Taught: Fall, winter, spring and summer*

**MSC 422 Professional Development (3 credits)**

*Taught: Fall, winter, spring and summer*

**MSC 422L Professional Development Lab (0 credits)**

*Taught: Fall, winter, spring and summer*

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**Media Informatics Courses (MIN)**

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**MIN 221 Visual Design for Digital Media (3 credits)**

*Hours: 3 classroom + 2 lab/studio*

*Prereq OR Co-req: INF 186 or INF 286.*

*Taught: Fall and spring*

Explores color theory, two-dimensional design, typography, layout, and web design through the use of Adobe Phototshop and Dreamweaver. Basic Mac Platform computer skills required.

**MIN 240 Introduction to Interactive Media (3 credits)***Hours: 3 classroom + 2 lab/studio**Taught: Fall and spring*

Students will learn skills and techniques necessary to create animations and interactivity for the web. Students will draw and tween symbols; work with images, audio and video; and be introduced to Actionscript 3.0. Projects include designing, developing and publishing click-through banner ads and web interfaces.

**MIN 252 Non-Linear Interactive Storytelling (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall and spring*

Students will explore character and narrative structure theory and practice with the goal of developing non-linear and interactive content for web, mobile and gaming devices. Students will develop engaging written, aural and visual multimedia experiences as well as a comprehensive video game design document.

**MIN 340 Media Scripting for Interactivity (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: MIN 240.**Taught: Fall and spring*

In this course, students will continue to develop 2D design and development skills through complex animation techniques including the use of movie clips, interactive buttons, video and audio. Students will also learn how to design and program Actionscript 3.0 to develop interactive experiences for the web and for mobile devices.

**MIN 345 Introduction to 3d Modeling (3 credits)***Hours: 3 classroom + 2 lab/studio**Taught: Fall and spring*

This class 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 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 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 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 391 Impact of Computer Games and Virtual Worlds (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall only*

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 context in the areas of social science, culture, humanities, education, business, economics, law, media, technology and science.

**MIN 394 Topics: Media Informatics (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department*

Focused study of a significant topic from a media informatics perspective. Topics vary semester to semester. 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.**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. 75.

**MIN 420 Business of Media Informatics (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: Junior or Senior standing.**Taught: Variable, check with department*

In this course, students will gain an understanding of business and ethics within the 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 490 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 496 Senior Practicum (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: MIN major, senior standing.**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 (3 credits)**

*Hours: 0 classroom + 4 -12 lab/studio*

*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 develop content for these promotions that will be displayed in print and online formats.

## Marketing Courses (MKT)

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**MKT 305 Principles of Marketing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: junior standing.*

*Taught: Fall and spring*

Flow of goods from producer to consumer; demand-stimulated and demand-fulfilling activities of business enterprises; marketing concepts and systems analysis.

**MKT 306 Sales Marketing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in MKT 305 and junior standing.*

*Taught: Fall and spring*

Managing the sales force and overall marketing and promotional strategy; organization of selling, quotas, territories, expenses, policy changes, and competition.

**MKT 307 Delivering and Communicating Value (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: MKT 333.*

*Taught: Fall and spring*

Retail sub-channel of distribution; role of retailing in meeting consumer and producer needs in distribution; distribution cost analysis at retail level; merchandising, promotion, and control.

**MKT 308 Integrated Marketing Communication (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in MKT 305.*

*Taught: Fall and spring*

Design, management, and coordination of marketing communications.

**MKT 310 Principles of Professional Selling (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in MKT 305.*

*Taught: Fall and spring*

Strategies, theories, and personal skills involved in professional and effective sales; the role of selling in marketing.

**MKT 320 Consumer Behavior (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in MKT 305.*

*Taught: Fall and spring*

Psychological, sociological, economic, and other dimensions of consumers and their environment.

**MKT 330 Marketing Services Business (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in MKT 305.*

*Taught: Variable, check with department*

More than 60% of personal consumption in the United States is spent on services. Health care, financial services, transportation, housing, hospitality and travel, professional and business services, education and recreation dominate the economy of the US. Services are also a dominant component of the world's economy. Learn what's different about the marketing of services and how to do it effectively in a hands-on, case and project-based environment.

**MKT 333 Global and Cultural Issues in Marketing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in 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 305.*

*Taught: Fall and spring*

Comprehensive look at components necessary for successful event planning, marketing, and management. Topics will include detailed analysis of event budgets, design and implementation of effective marketing and promotional campaigns, strategies for sponsorship program development, techniques utilized to help choose the right facility or venue as the event host, coordination of staffing and volunteer needs, and focus on key legal aspects, including contracts.

**MKT 340 Business to Business Marketing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in MKT 305.*

*Taught: Variable, check with department*

The non-consumer marketing world; strategies, techniques, and analytical approaches.

**MKT 350 Creating Value through Product and Price (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: MKT 333.*

*Taught: Fall and spring*

Focuses on an understanding, application, and integration of marketing theories and practices related to creating new products and services, managing products and services throughout their lifecycle, and developing and managing pricing strategies for products and services.

**MKT 360 International Marketing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in MKT 305.*

*Taught: Variable, check with department*

As technologies, ideas and people transfer across national boundaries, organizations are becoming active, competitive participants in a global economy. These developments will mean that more organizations will need marketers with the ability to apply the marketing processes across countries and cultures. This course emphasizes a non-US perspective, SME involvement in international marketing, and alternative trade organizations as a way to develop more global-minded marketing managers who appreciate various dimensions of international business.

**MKT 370 Social Media (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in MKT 305.*

*Taught: Variable, check with department*

Course focuses on the utilization of social media design and analytics by marketers to communicate with and create value for targeted audiences. Students will learn how to: 1) explore the possibilities and limitations of various social media; 2) apply and integrate social media tools into marketing strategies; and 3) evaluate the effectiveness of different social media campaigns in achieving organizational goals. Ethical and legal considerations for marketers using social media's "real-time" platform are discussed.

**MKT 392 Consumer Insights (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in MKT 305 and STA 205 or STA 212.*

*Taught: Fall and spring*

Introduction to role of research in marketing decision making including research designs and methodologies, primary and secondary data collection, and sampling techniques.

**MKT 394 Topics: Marketing Issues (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in MKT 305.*

*Taught: Variable, check with department*

Specialized topics of faculty and student interest. Topics vary and may include product planning and development, distribution, pricing strategies, services marketing, and international marketing.



May be taken three for elective credit if topics differ.

### **MKT 396 Internship: Marketing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in MKT 305, consent of supervising faculty member, GPA of at least 2.*

*Taught: Fall, spring, and summer*

Supervised professional work and learning experience in an approved marketing-related professional position. 75.

### **MKT 480 Strategic Decision Making in Marketing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: MKT 320, MKT 392, and senior standing.*

*Taught: Fall and spring*

Decision making related to objectives in performing marketing functions; adjustment of goods and services to consumer demand; simulated competition and case methodology. Open only to students certified as majoring in business or by consent of instructor.

### **MKT 492 Advanced Marketing Research (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ENG 340 (or OST 311), MKT 320, MKT 392, STA 213 and senior standing, or consent of instructor.*

*Taught: Fall and spring*

Development of advanced marketing research skills and knowledge through lecture/discussion and a field research study. Open only to students certified as majoring in business disciplines.

### **MKT 499 Independent Study: Marketing (1-3 credits)**

*Hours: 1-3 classroom + 0 lab/studio*

*Prerequisites: C or better in MKT 305, senior standing and consent of instructor.*

*Taught: Variable, check with department*

Students pursue a topic or project of interest to them. Meeting times arranged with instructor. Open only to students certified as majoring in business or by consent of instructor.

## **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 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 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 (1-1 credits)**

*Hours: 0 classroom + 1.5 lab/studio*

*Taught: Fall and spring*

Sight singing, dictation, and keyboard harmony.

### **MUS 125 Aural Skills II (1 credit)**

*Hours: 0 classroom + 1.5 lab/studio*

*Taught: Fall and spring*

Continuation of MUS 124.

### **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*

Continuation of Aural Skills sequence.

### **MUS 127 Aural Skills IV (1 credit)**

*Hours: 0 classroom + 1.5 lab/studio*

*Taught: Fall and spring*

Continuation of Aural Skills sequence.

### **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 147 Harpsichord for Pianists (1 credit)***Hours: 0 classroom + .5-1 lab/studio**Prerequisites: consent of instructor.**Taught: Fall and spring*

Technique; introduction to renaissance, baroque, and 20th century repertoire; performance practices; comparison of harpsichord and piano technique and style. Limit four per class. May be repeated for credit.

**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 149 Organ for Pianists I (1 credit)***Hours: 0 classroom + .5-1 lab/studio**Prerequisites: consent of instructor.**Taught: Fall and spring*

Manual and pedal technique, registration, beginning repertoire, service playing. Limit four per class. May be repeated for credit.

**MUS 150 Organ for Pianists II (1 credit)***Hours: 0 classroom + .5-1 lab/studio**Prerequisites: consent of instructor.**Taught: Fall and spring*

Advanced manual and pedal technique, registration, advanced repertoire, service playing. Limit four per class. May be repeated for credit.

**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. ? contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 169 Applied Music: 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. ? contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 170 Applied Piano: Accompanying (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. ? contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 171 Applied Music: 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. ? contact hour = 1 sem. hr.; 1

contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 172 Applied Music: 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. ? contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 173 Applied Music: Cello (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. ? contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 174 Applied Music: Bass (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. ? contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 175 Applied Music: Flute (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. ? contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 176 Applied Music: Oboe (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. ? contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 177 Applied Music: Bassoon (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. ? 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 + .5-1 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. ? 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 + .5-1 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. ? 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 + .5-1 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. ? 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 + .5-1 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. ? 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 + .5-1 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. ? 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 + .5-1 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. ? 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 + .5-1 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. ? 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 + .5-1 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. ? 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 + .5-1 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. ? 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 + .5-1 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. ? 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. ? 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. ? contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

**MUS 195 Music: Experimental (1 credit)***Hours: 1-3 classroom + 0 lab/studio**Taught: Variable, check with department***MUS 196 Recital Review (0 credits)***Hours: 0 classroom + 1 lab/studio**Taught: Fall and spring*

Students majoring in music, unless excused by the music chair, must register each semester for, and pass, MUS 196. Course requirements are satisfied by certified attendance and review a minimum of 16 approved recitals/concerts per semester (eight during student teaching).

**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*

Advanced dictation; sight singing and keyboard harmony.

**MUS 225 Aural Skills VI (1 credit)***Hours: 0 classroom + 1.5 lab/studio**Taught: Fall and spring*

Continuation of MUS 224, with chromatic materials.

**MUS 226 Aural Skills VII (1 credit)***Hours: 0 classroom + 1.5 lab/studio**Prerequisites: C- or better in MUS 225.**Taught: Fall and spring*

Continuation of Aural Skills sequence.

**MUS 227 Aural Skills VIII (1 credit)***Hours: 0 classroom + 1.5 lab/studio**Taught: Fall and spring*

Continuation of Aural Skills sequence.

**MUS 228 Applied Composition I (1-2 credits)***Hours: 0 classroom + .5-1 lab/studio**Prerequisites: placement test; at least 2.**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. 50 in music theory/aural skills. Fees assessed according to contact hours.

**MUS 229 Applied Composition II (1-2 credits)***Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 228.**Taught: Fall and spring*

Private or semi-private instruction in music composition. Maybe repeated for credit. 1/2 contact hour =1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

**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**Taught: Fall only*

Music in western civilization from ca. 1680 to ca. 1850.

**MUS 235 Jazz Harmony/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 Jazz Harmony/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**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 237.**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**Taught: Fall only*

Class instruction in performance and pedagogy.

**MUS 243 Applied Methods and Materials: Woodwinds (1 credit)***Hours: 3 classroom + 0 lab/studio**Taught: Spring only*

Class instruction in performance and pedagogy.

**MUS 245 Applied Methods and Materials: Strings (1 credit)***Hours: 3 classroom + 0 lab/studio**Taught: Fall only*

Class instruction in performance and pedagogy.

**MUS 247 Applied Methods and Materials: Percussions (1 credit)***Hours: 3 classroom + 0 lab/studio**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: Music education major or consent of instructor.**Taught: Fall only*

Instrumental techniques, basic transpositions, and fundamentals of pedagogy; instruction in dealing with instruments as a conductor.

**MUS 260 Music Fundamentals and Skills for Classroom Teachers (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: EDU 104.**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.

**MUS 261 Class Piano V (1 credit)***Hours: 0 classroom + 1.5 lab/studio**Prerequisites: C or better in MUS 143.**Taught: Fall and spring*

Continuation of Class Piano sequence.

**MUS 262 Class Piano VI (1 credit)***Hours: 0 classroom + 1.5 lab/studio**Taught: Fall and spring*

Continuation of MUS 261.

**MUS 263 Class Piano VII (1 credit)***Hours: 0 classroom + 1.5 lab/studio**Prerequisites: C or better in MUS 262.**Taught: Fall and spring*

Continuation of Class Piano sequence.

**MUS 264 Class Piano VIII (1 credit)***Hours: 0 classroom + 1.5 lab/studio**Taught: Fall and spring*

Continuation of MUS 263.

**MUS 268 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. ? hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

**MUS 269 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. ? hr. contact = 1 semester



**MUS 285 Applied Piano (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. ? 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 + .5-1 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. ? 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 + .5-1 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. ? 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 + .5-1 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. ? 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 + .5-1 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. ? hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

**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 + 0 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 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 octavos 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**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. PREREQ audition.

**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 (3 credits)***Hours: 0 classroom + 1-3. lab/studio**Prerequisites: consent of instructor.**Taught: Fall and spring*

Accompanying ensembles, one per semester as assigned. May be repeated for credit.

**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 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: 48 semester hours as specified in the curriculum contract; at least 2.**Taught: Fall 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. 50 GPA; completion of pre-music curriculum. required.

**MUS 310 Chamber Music Ensembles (0-1 credits)***Hours: 0 classroom + 1-3. lab/studio**Taught: Fall and spring*

Participation in an ensemble to study and perform chamber music literature. May be repeated for credit. All music majors and inors must fulfill their ensemble credit requirements prior to opting for the 0 cr. PREREQ audition.

**MUS 311 Accompanying and Chamber Music (1 credit)**

*Hours: 0 classroom + 1-3. lab/studio*

*Taught: Fall and spring*

Drill in sight reading; training in listening and anticipating; following and leading; matching tone, color, and mood of the solo part; rescuing a soloist in trouble, and assuming a solo role when appropriate. 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*

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 313 Advanced Electronic and Computer Music Techniques (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in MUS 312 or consent of instructor.*

*Taught: Variable, check with department*

computer applications unique to musicians and their art; further development of skills in electronic music, computer music publishing and part writing, and music desktop publishing; advanced MIDI (musical instrument digital interface) techniques and realization of music through computer playback of digitized sampled sound. 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 Brass Choir (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 brass ensemble; public concerts and performance for university functions. May be repeated for credit.

**MUS 319 Percussion 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 percussion ensemble; public concerts and performance for university functions. May be repeated for credit.

**MUS 320 Counterpoint I (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

**MUS 321 Jazz Arranging I (2 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: MUS 123, 127.*

*Taught: Fall only-odd years*

Study of basic harmonic and melodic analysis, chord construction, rhythms, chord/scale relationships, nomenclature, and voice leading in the jazz idiom.

**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 (2 credits)**

*Hours: 2 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.

**MUS 325 Form and Analysis (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in MUS 223 and MUS 225.*

*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 223.*

*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 late Baroque counterpoint.

**MUS 328 Applied Composition III (1-2 credits)**

*Hours: 0 classroom + .5-1 lab/studio*

*Prerequisites: MUS 229 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 329 Applied Composition IV (1-2 credits)**

*Hours: 0 classroom + .5-1 lab/studio*

*Prerequisites: MUS 328.*

*Taught: Fall and spring*

Private or semi private instruction in music composition. 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-even 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-even years*

Solo song repertoire of western world from the troubadours to the present; style, interpretation, and program building.

**MUS 334 Chamber Music Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department***MUS 335 Symphonic Literature (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Variable, check with department***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 230-231.**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 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: consent of instructor.**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 Instrumental Music 6-12 (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: MUS 352 or consent of instructor.**Taught: Spring only*

Organization, management, materials, and instruction techniques appropriate to teaching of instrumental music in public education; practicum laboratory experiences in local public schools.

**MUS 342 General and Choral Music in the Secondary School (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: MUS 352 or consent of instructor.**Taught: Spring only-even yrs*

Organization and management of a choral/vocal program in grades 7-12; methods and materials for general music, theory, and music appreciation classes.

**MUS 343 Marching Band Methods (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: MUS 122- 123.**Taught: Fall only*

Practical aspects of show charting, music selection, and marching band techniques and styles; organization, discipline, and arranging. Extra class observations will require several Friday evenings. For the prospective secondary band director. Fall.

**MUS 345 Keyboard Skills I (1 credit)***Hours: 0 classroom + 2 lab/studio**Prerequisites: consent of instructor.**Taught: Fall only-odd years*

Developing proficiency in functional keyboard skills; 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-even yrs*

Continued principles and techniques of sight reading, transposition, harmonization, playing by ear, and improvisation.

**MUS 347 Harpsichord for Pianists II (2 credits)***Hours: 0 classroom + .5-1 lab/studio**Prerequisites: consent of instructor.**Taught: Fall and spring*

Advanced technique; study of renaissance, baroque, and pre classical repertoire; performance practices; figured bass. Limit four per class. May be repeated for credit.

**MUS 348 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 349 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 352 Conducting I (2 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: C or better in MUS 223 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 (3 credits)***Hours: 3 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 (3 credits)***Hours: 3 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 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. ? 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*  
*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. ? 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*  
*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. ? 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*  
*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. ? 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*  
*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. ? 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*  
*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. ? 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*  
*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. ? 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 238, 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 V (1-2 credits)**

*Hours: 0 classroom + .5-1 lab/studio*  
*Prerequisites: MUS 329.*  
*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 429 Applied Composition VI (1-2 credits)**

*Hours: 0 classroom + .5-1 lab/studio*  
*Prerequisites: MUS 428.*  
*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 446 Vocal Pedagogy (3 credits)**

*Hours: 3 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 447 Seminar in Piano Pedagogy (3 credits)**

*Hours: 3 classroom + 0 lab/studio*  
*Prerequisites: consent of instructor.*  
*Taught: Variable, check with department*

Techniques of major pedagogical philosophies; studies (etudes, methods, exercises, and piano literature as applied to development in piano instruction and performance.

**MUS 448 Piano Pedagogy III (3 credits)**

*Hours: 3 classroom + 0 lab/studio*  
*Prerequisites: consent of instructor.*  
*Taught: Fall only-odd years*

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 449 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 468 Applied Harp (1-2 credits)**

*Hours: 0 classroom + .5-1 lab/studio*  
*Prerequisites: placement test.*  
*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. ½ hr. contact = 1 semester



**MUS 484 Applied Tuba (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. ? 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**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. ? 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**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. ? 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**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. ? 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**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. ? 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**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. ? hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

**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.

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**Neuroscience Courses (NEU)**

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**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.

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**Nursing Registered Professional Courses (NRP)**

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**NRP 316L Evaluation of Clinical Performance (6 credits)***Hours: 0 classroom + 12 lab/studio**Prerequisites: admission to RN-BSN program.**Co-requisites: NRP 317L and NRP 401.**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 (5 credits)***Hours: 0 classroom + 12 lab/studio**Prerequisites: Admission to RN-BSN program.**Co-requisites: NRP 316L and NRP 401.**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.

**NRP 401 Theories and Concepts of Professional Nursing (2 credits)***Hours: 2 classroom + 0 lab/studio**Prerequisites: admission to RN/BSN program and NRP 316L and NRP 317L.**Taught: Fall only*

Concepts and theories providing the foundation for development of 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.

**NRP 410 Nursing Research (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: STA 205.**Prereq OR Co-req: NRP 401.**Taught: Fall only*

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.

**NRP 411 Holistic Nursing Assessment (2 credits)***Hours: 0 classroom + 2 lab/studio**Co-requisites: NRP 413L and NRP 415L.**Prereq OR Co-req: NRP 401 and NRP 410.**Taught: Fall only*

Principles of holistic health assessment of existing and potential client problems with a view toward planning nursing care.

**NRP 413L Nursing Assessment Laboratory (1 credit)***Hours: 0 classroom + 4 lab/studio**Co-requisites: NRP 411 and NRP 415L.**Taught: Fall only*

Application of holistic health assessment techniques in the laboratory setting.

**NRP 415L Nursing Assessment Practicum (2 credits)***Hours: 3 classroom + 0 lab/studio**Co-requisites: NRP 411 and NRP 413L.**Taught: Fall only*

Application of nursing history and physical assessment techniques in formulating nursing

diagnosis for individual clients in a variety of settings.

### **NRP 434 Theories in Nursing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: NRP 401 and NRP 410 or permission of program director.*

*Taught: Spring only*

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.

### **NRP 435 Nursing in the Community (3 credits)**

*Hours: 0 classroom + 12 lab/studio*

*Prerequisites: NRP 401, NRP 410, NRP 411, NRP 413L, and NRP 415L; COREQ: NRP 435L.*

*Taught: Spring only*

Principles of health maintenance, health promotion in community settings; epidemiology, health education, group process, cultural diversity impact on health, contemporary community health problems, policy issues.

### **NRP 435L Nursing in Community Practicum (6 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Co-requisites: NRP 435.*

*Taught: Spring only*

A variety of community agencies serving a diverse population and defined risk groups; teaching, screening, case finding, referral, and evaluation of community health services.

### **NRP 441 Nursing Leadership (3 credits)**

*Hours: 0 classroom + 12 lab/studio*

*Prerequisites: NRP 401, 410, 411, 413L, 415L, 434 and NRP 435/435L.*

*Co-requisites: NRP 441L.*

*Taught: Fall only*

Nursing leadership concepts and functions in nursing environments; selected theories of leadership and management; collaboration for decision making and effecting change for experienced nurses.

### **NRP 455 Professional and Legal Issues in Nursing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: NRP 401, 410, 411, 413L, 415L, 434 and NRP 435/435L.*

*Co-requisites: NRP 441L.*

*Taught: Fall, winter, spring and summer*

Emerging trends in nursing education and professional nursing practice; ethical and legal parameters of nursing practice. PREREQ: or

### **NRP 441L Nursing Leadership Practicum (6 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: NRP 401, 410, 411, 413L, 415L, 434 and NRP 435/435L.*

*Co-requisites: NRP 441, NRP 455.*

*Taught: Fall only*

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.

### **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.

### **NRP 650 Nursing Classification, Language and Semantics for Advanced Practice (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: NRP 604.*

*Taught: Variable, check with department*

This course examines, critiques, and evaluates the various informatics classification systems and vocabularies related to nursing. It explores the application and utilization of nursing theories in informatics practice and research. This course focuses on nursing science, technology and approaches to developing knowledge and standardized informatics vocabularies for use in nursing practice.

## **Nursing Baccalaureate Courses (NRS)**

### **NRS 210L Development of Clinical Nursing Skills (2 credits)**

*Hours: 0 classroom + 4 lab/studio*

*Prerequisites: BIO 209, 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.*

*Prereq OR Co-req: 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 209, BIO 209L, BIO 126, CHE 115, CHE 115L and PSY 220.*

*Co-requisites: NRS 210L.*

*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 Practicum (2 credits)**

*Hours: 0 classroom + 4 lab/studio*

*Prerequisites: BIO 209, 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 209, 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, socio-cultural-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 209, 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 Pathopharm Concepts 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 304 Intermediate Medical-Surgical II (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: NRS 206/297, NRS 207/298, BIO 202/202L, COREQ: NRS 396/305, NRS 332.*

*Taught: Fall only*

Concepts and theories to support the care of adult clients requiring multiple advanced nursing interventions.

### **NRS 305 Psychiatric Nursing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall only*

Concepts and theories to support nursing care of clients with mental health problems and disorders.

### **NRS 306 Advanced Medical-Surgical (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: NRS 304, NRS 305, NRS 332, NRS 396.*

*Co-requisites: NRS 321, NRS 398.*

*Taught: Fall and spring*

Theories and concepts for nursing practice in a critical care setting, economic and legal/ethical issues.

### **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, NRS 255, STA 205 or STA 212.*

*Co-requisites: NRS 330, 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 321 Professional Issues (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: NRS 206, NRS 207, NRS 296, NRS 297, NRS 298, BIO 202.*

*Co-requisites: NRS 306 and NRS 398.*

*Taught: Fall and spring*

Emerging trends in nursing education, professional nursing practice; ethical/legal parameters of nursing 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 332 Theories in Nursing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*  
*Prerequisites: NRS 206, NRS 207, NRS 297, NRS 298, BIO 202.*  
*Co-requisites: NRS 304, NRS 305, NRS 396, NRS397.*  
*Taught: Fall only*

Study of the nature of theory development in nursing with an emphasis on the evolution of the science of nursing. evaluation of selected nursing theories as they relate to professional nursing practice.

**NRS 339L Clinical Reasoning I (1 credit)**

*Hours: 0 classroom + 2 lab/studio*  
*Prerequisites: NRS 250.*  
*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.*  
*Co-requisites: NRS 350P, NRS 360 and NRS 370.*  
*Taught: Spring only*

Concepts and theories to support adaptation of clients requiring multiple advanced nursing interventions.

**NRS 350P Intermediate Medical-Surgical Nursing Practicum (2 credits)**

*Hours: 0 classroom + 4 lab/studio*  
*Co-requisites: NRS 350.*  
*Taught: Spring only*

Concepts and theories needed to support adaptation of adults requiring multiple advanced nursing interventions; principles of leadership; ethical, legal, and professional issues.

**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: Spring only*

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: Spring only*

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: Spring only*

Emerging trends in nursing education, professional nursing practice; study of ethical frameworks and legal factors influencing decision-making in nursing practice.

**NRS 380 Hospice Concepts and Care (3 credits)**

*Hours: 3 classroom + 0 lab/studio*  
*Taught: Variable, check with department*

Hospice concepts with focus on psychosocial, spiritual, cultural, legal, ethical, and physical issues at the end of life. Theories on caring and comfort and case management will be explored.

**NRS 396 Intermediate Medical-Surgical Clinical II (2 credits)**

*Hours: 0 classroom + 4 lab/studio*  
*Co-requisites: NRS 304 NRS 305.*  
*Taught: Fall and spring*

Application of concepts and theories to support the care of adult clients requiring multiple advanced nursing interventions.

**NRS 397 Psychiatric Nursing Clinical (2 credits)**

*Hours: 0 classroom + 4 lab/studio*  
*Taught: Fall and spring*

Application of concepts and theories needed to support adaptation of adults with mental disorders requiring multiple advanced nursing interventions.

**NRS 398 Role Transition Practicum (4 credits)**

*Hours: 0 classroom + 8 lab/studio*  
*Prerequisites: NRS 304, NRS 305, NRS 332, NRS 396.*  
*Co-requisites: NRS 306, NRS 321, NRS 398L.*  
*Taught: Fall and spring*

Clinical practice for role of professional nurse in a supportive environment; opportunities to manage groups of patients, increase clinical competence; knowledge of issues affecting healthcare/ healthcare professionals.

**NRS 398L Role Transition Laboratory and Seminar (2 credits)**

*Hours: 0 classroom + 4 lab/studio*  
*Prerequisites: NRS 304, NRS 305.*  
*Taught: Fall and spring*

Laboratory and seminar sessions to prepare student with essential skills for NRS 398 (Role Transition) experience with preceptor.

**NRS 400 Remediation Seminar (1 credit)**

*Hours: 2 classroom + 0 lab/studio*  
*Prerequisites: NRS 321.*  
*Co-requisites: NRS 306.*

*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 404 Community and Public Health Nursing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*  
*Co-requisites: NRS 496, NRS 421.*  
*Taught: Fall and spring*

Principles of health maintenance, health promotion in community settings; epidemiology, health education, group process, cultural diversity impact on health, contemporary community health problems, policy issues.

**NRS 406 Nursing Leadership (4 credits)**

*Hours: 4 classroom + 0 lab/studio*  
*Co-requisites: NRS 398L.*  
*Taught: Fall and spring*

Leadership concepts and functions of leadership in healthcare environments; selected theories of leadership and management; collaboration for decision-making and effecting change.

**NRS 413 Aging in Today's Society (3 credits)**

*Hours: 3 classroom + 0 lab/studio*  
*Prerequisites: None.*

*Taught: Variable, check with department*  
 Role of the older adult in society; pro-motion of health, support of continued learning, right to peaceful death. Theories of aging and ethical/legal concepts. Includes experiences with the older adult in the community, acute and long term care settings. Elective for BSN students. Open to all students.

**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.**Prereq OR Co-req: INF 355.**Taught: Variable, check with department*

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: Variable, check with department*

Application of concepts and theories to support care of obstetric and pediatric clients 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 421 Healthcare Research (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: or COREQ: NRS 404 and STA 205 or STA 212.**Taught: Fall and spring*

Overview of the research process for healthcare professions; historical development of research in healthcare; role of research in scientific advancement of healthcare; development of ability to critique clinical healthcare studies.

**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: Variable, check with department*

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: Variable, check with department*

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 450P Advanced Medical Surgical Practicum (2 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 450P Advanced Medical Surgical Practicum (2 credits)***Hours: 0 classroom + 4 lab/studio**Co-requisites: NRS 450.**Taught: Variable, check with department*

Utilization of theoretical concepts in holistic management of adult clients.

**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/healthcare 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 496 Community and Public Health Clinical (4 credits)***Hours: 0 classroom + 8 lab/studio**Co-requisites: NRS 404, NRS 421.**Taught: Fall and spring*

Variety of community agencies serving a diversity of clients and defined risk groups; teaching, screening, case finding, and referral, evaluation of community health services.

**NRS 498 Nursing Leadership Practicum (3 credits)***Hours: 0 classroom + 6 lab/studio**Prerequisites: NRS 404, NRS 496, NRS 421.**Co-requisites: NRS 406 and NRS 398L.**Taught: Fall and spring*

Integration of didactic content in a practice setting; clinical experience in selected health care agencies, in leadership role.

**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 and overview of the formation, implementation, quantitative and qualitative evaluation, and ethical aspects of policy making.

**PAD 411 Public Budgeting and Finance (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: junior standing.**Taught: Fall only*

Treatment of budgetary techniques and application; program budgeting, zero-base budgeting;



financial planning and revenue estimation techniques; tax and expenditure types; debt financing; financial reporting.

#### **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 435 Criminal Justice Administration (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: JUS 101 and Sophomore Standing.*

*Taught: Variable, check with department*

This course focuses on the principles of organization, administration, and function of criminal justice agencies. These agencies include law enforcement, the courts, and corrections. The course includes an examination of management approaches and problems in criminal justice, including the planning and evaluation techniques and the use of information systems.

#### **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 460 Planning and Community Development (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: junior standing.*

*Taught: Variable, check with department*

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.

#### **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 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 496 Internship in Public Administration (1-5 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 Readings: Public Administration (3 credits)**

*Hours: 0 classroom + 0 lab/studio*

*Prerequisites: consent of program coordinator.*

*Taught: Variable, check with department*

Specialized topics in public administration covered through intensive readings and/or field projects; at the direction of a specific instructor. May be repeated as projects vary.

#### **PAD 515 Cartography (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 cartography; hands-on experience in cartographic map design using computer cartographic software through developing maps, charts, graphics, and design materials for presentation through digital mediums. Emphasizes understanding and imple-

mentation of the principles and theories and research into relevant topics.

#### **PAD 519 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.

## **Physical Education Courses (PHE)**

#### **PHE 104 Beginning Badminton (1 credit)**

*Hours: 0 classroom + 2 lab/studio*

*Taught: Spring only*

Development of skills, knowledge, strategies, and attitudes in specific Beginning level activities. For students unskilled in the activity.

#### **PHE 108 Beginning Conditioning (1 credit)**

*Hours: 0 classroom + 2 lab/studio*

*Taught: Fall, spring, and summer*

Development of skills, knowledge, strategies, and attitudes in specific Beginning level activities. For students unskilled in the activity.

#### **PHE 110 Beginning Golf (1 credit)**

*Hours: 0 classroom + 2 lab/studio*

*Taught: Fall, spring, and summer*

Development of skills, knowledge, strategies, and attitudes in specific Beginning level activities. For students unskilled in the activity.

#### **PHE 114 Beginning Karate (1 credit)**

*Hours: 0 classroom + 2 lab/studio*

*Taught: Fall and spring*

Development of skills, knowledge, strategies, and attitudes in specific Beginning level activities. For students unskilled in the activity.

**PHE 118 Beginning Swimming (1 credit)***Hours: 0 classroom + 2 lab/studio**Taught: Fall, spring, and summer*

Development of skills, knowledge, strategies, and attitudes in specific Beginning level activities. For students unskilled in the activity.

**PHE 120 Beginning Tennis (1 credit)***Hours: 0 classroom + 2 lab/studio**Taught: Fall, spring, and summer*

Development of skills, knowledge, strategies, and attitudes in specific Beginning level activities. For students unskilled in the activity.

**PHE 122 Beginning Volleyball (1 credit)***Hours: 0 classroom + 2 lab/studio**Taught: Fall and spring*

Development of skills, knowledge, strategies, and attitudes in specific Beginning level activities. For students unskilled in the activity.

**PHE 208 Intermediate Conditioning (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 209 Intermediate Aerobics (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 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 214 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 218 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. Spring

**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 245 Officiating Basketball (1 credit)***Hours: 1 classroom + 2 lab/studio**Taught: Variable, check with department*

Rules and techniques for officiating sports contacts.

**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 299 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. Spring

**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. Fall/Spring

**PHE 470 Teaching Methods for Physical Education (4 credits)**

*Hours: 2 classroom + 2 lab/studio*

*Prerequisites: EDU 311, PHE 200, PHE 230, PHE 231, PHE 234, PHE 235, PHE 310, PHE 330.*

*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 Practicum in Teaching Elementary Physical Education (2 credits)**

*Hours: 0 classroom + 1 lab/studio*

*Prerequisites: PHE 470.*

*Taught: Fall only*

Supervised practice teaching experience in an elementary school setting. Integrated with methods course.

**PHE 491 Practicum in Teaching 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. Spring

**PHE 499 Special Topics in Physical Education (1-3 credits)**

*Hours: 1-3 classroom + 0 lab/studio*

*Prerequisites: junior or senior standing and/or.*

*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*

*Taught: Fall only*

Adaptation of physical education programs for temporarily or permanently handicapped persons. Fall/Spring

**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 110H Philosophy, Individuals and Society (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Spring only*

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 111 Debating Ethics - OC (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Ethics Bowl is a competitive academic game designed to foster students' capacity for reasoning and argumentation on practical ethical issues. Students enrolled in the course will explore and analyze ethical dilemmas drawn from a wide range of areas in practical or applied ethics. The primary goal is for student to find morally good resolutions to specific case studies, to be able to articulate and justify that resolution, and to defend it against potential objections. The second goal is conditional: to prepare teams of students to compete in the national Intercollegiate Ethics Bowl debating competition. It should be noted that the course is open to those not on the teams, and it is not required for those who are on the teams.

*General education credit: Oral Communication*

**PHI 150 Introduction to Philosophy (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Application of philosophical thinking to perennial human concerns; human nature and the human condition, the good life, the good society.

**PHI 155 Introduction to Ethics (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Moral dimension of human experience; development of a rational approach to ethical inquiry; major value questions and ethical issues.

**PHI 160 World Religions (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

A philosophical and comparative analysis of the major world religions: Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, and Islam.

**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*

Exploration of significant philosophers, their methods of inquiry and philosophical texts and their impact on various cultures in terms of science, ethics, politics, art and theology as well as how these areas influenced and shaped philosophical thinking, other individuals and cultures as well.

*General education credit: Culture and Creativity*

**PHI 200 Ethics - 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: Global Viewpoints*

**PHI 201 Ideas in Philosophy (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Issues and/or works in philosophy revolving around a selected theme or concern. May be repeated as topics vary.

**PHI 210 Ethics of Information Technology (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 work-

place, 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 251 Critical Thinking and Moral Communication - WC (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ENG 101 or ENG 151H or equivalent.*

*Taught: Variable, check with department*

This course is a writing intense introduction to the principles of reasoning and their practical application to a variety of fields and professional vocations. Students will observe how logic and logically expressed communication bear on such diverse fields as ethics, theology, science, politics, law and business.

*General education credit: Written Communication II*

### 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: Fall only*

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: Spring only*

Western philosophical tradition from the 15th to the 20th century; rise of rationalism, dualism, empiricism, idealism, skepticism, and utilitarian-

ism, 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 Ethics and Science (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 semester hours in philosophy.*

*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, the implications of scientific research for ethics.

### PHI 304 Zen (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in a 100-level or 200-level philosophy, or the consent of 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*

*Taught: Variable, check with department*

Meaning, freedom, responsibility, communication, creativity, and value in the works of thinkers such as Kierkegaard, Nietzsche, Heidegger, Sartre, Camus, DeBeauvoir, 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: 3 semester hours in philosophy or science.*

*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: 3 semester hours in philosophy.*

*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: C- or better in a 100 or 200 level*

*Philosophy course, or consent of 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: C- or better in a 100 or 200 level*

*Philosophy course, or consent of 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: C- or better in a 100 or 200 level*

*Philosophy course, or consent of 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: C- or better in a 100 or 200 level*

*Philosophy course, or consent of 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, intellection, time, matter, mind, God, freedom, truth, reason, emotion.

### PHI 320 Social and Political Philosophy (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*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 323 Peace and War (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 semester hours in philosophy.*

*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: C- or better in a 100 or 200 level philosophy course, or consent of 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 330 Philosophy and Law (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: sophomore standing.*

*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 Great Traditions in Ethics (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 semester hours in philosophy.*

*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 340 Neuroethics (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in a 100 or 200 level Philosophy course, or consent of 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 345 Philosophy of Mind (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 semester hours in philosophy.*

*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: 3 hours of philosophy.*

*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: 3 semester hours in philosophy or consent of instructor.*

*Taught: Spring only*

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 360 Environmental Philosophy (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 semester hours in philosophy or consent of 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: C- or better in a 100 or 200 level Philosophy course, or consent of 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: 3 semester hours in philosophy.*

*Taught: Variable, check with department*

In-depth examination of a major figure, issue, or school in philosophy. Topic will be announced in Schedule of Classes. May be repeated as 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*

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: 6 semester hours in philosophy.*

*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 499 Independent Study in Philosophy (1-3 credits)**

*Hours: 1-3 classroom + 0 lab/studio*

*Prerequisites: 6 semester hours in philosophy and consent of instructor.*

*Taught: Variable, check with department*

Individually supervised readings and study of some philosophical 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: 6 semester hours in philosophy 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 599 Independent Study: Philosophy (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 6 semester hours of philosophy 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.

*General education credit: Natural Science*

**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 non-science 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.

*General education credit: Natural Science*

**PHY 115 Physics of Music and Sound (4 credits)**

*Hours: 3 classroom + 1 lab/studio*

*Prerequisites: MAHD099.*

*Taught: Variable, check with department*

The course examines the physical principles involved in the description, generation, detection, and reproduction of sound. Topics include oscillations and vibrations, waves and waveforms, sound, traveling waves in air, standing waves, resonance, hearing, the ear, loudness, decibels, acoustical measurements, sound-generating electronics, digital sound.

**PHY 150 Current Topics in Physics (1 credit)**

*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 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*

Non-calculus 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*

Non-calculus 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*

*Prereq OR Co-req: 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.*

*Prereq OR Co-req: 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 engineering technology 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 thermodynamically properties of matter, nuclear structure, particle physics and advanced optics.

**PHY 305 Statics (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: MAT 228 or MAT 229 and C- 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.

Prereq OR Co-req: 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

Prereq OR Co-req: MAT 329 PREREQ: C- or better in PHY 224.

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: MAT 129 or MAT 227 and C- or better in PHY 213 or PHY 224 COREQ: 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. May be repeated for credit up to 9 sem. hours when topic varies. Offered on demand.

**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.

**PHY 495 Undergraduate Laboratory Assistant (1-3 credits)**

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Physics GPA of at least 3.

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. Fall, spring, summer. 00, junior standing and consent of instructor.

**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 (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 345 Japanese Popular Culture (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: POP 205, 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 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 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 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*

*Prereq OR Co-req: 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 376.*

*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 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 - SB (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*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 History of Western Political Thought (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 302 The American Presidency (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*

A comprehensive examination of the Presidency of the United States of America. This class will look at leadership styles, different time periods in presidential history, the historical impact of past presidents on current office holders and the interaction between the presidency, congress, and the supreme court.

**PSC 303 The American Legislature (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*

A comprehensive examination of the Congress of the United States of America. The focus will be how laws are made, how candidates are elected, the role of the political parties, the interactions between the Congress and the Presidency/Supreme Court, the constitutional foundations of the Congress, and the development of congressional power since the founding.

**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: Fall and spring*

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: Fall and spring*

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 Elections (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.*

*Taught: Spring only*

Development and structure of U.S. party and electoral systems; party nominations, conventions, funding, and campaigning; role of elections in the political system.

**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-odd years*

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 315 Scope and Methods (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 semester hours of introductory political science courses.*

*Taught: Fall and spring*

Philosophical foundations of political analysis; various methodologies and quantitative techniques; nature of the role of the political scientist.

**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: Summer only*

Role of films in examining global relations, enhancing awareness of global issues; effect of films on public understanding of political processes and problems; examination of accuracy and bias of political messages in films.

**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*

Organization and functioning of modern European political systems, especially Great Britain, France, Germany, and Italy.

**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: Spring only-even yrs*

Comparative analysis of selected republics, especially Argentina, Brazil, Chile, Peru, and Venezuela.

**PSC 338 U.S. Foreign Policy and the Developing World (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*

A comprehensive examination of the theory and practice of United States foreign policy in the developing world and critical analysis of the implications of such policy on U.S./Developing World relations. Analysis aimed to assist students to see and understand how the perceptions formed by both sides are based on how they view the impact of the policy on their perceived national interests.

**PSC 350 Diplomacy and Negotiation (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.*

*Taught: Summer only*

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: Fall only-odd years*

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-odd 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-even yrs*

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: Spring 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 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*

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 382 Politics of Canada (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*

To provide a comprehensive analysis of the theory, practice and reality of Canadian politics and policies. The major intent is to help the student better grasp and comprehend the structure and nature of government and politics in Canada, as well as the policies resulting and their impact on the Canadian policy and the greater international community.

**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: Spring only-even yrs*

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 403 Public Policy (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.*

*Taught: Spring only*

Forces molding public choice; general processes of policy formation and adoption; analysis of implementation of policies dealing with problems of compliance and policy impact, distribution, and evaluation; major domestic public policy issues including criminal justice, social welfare, environment, health care, and taxation.

**PSC 405 Economic Policy (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Any PSC 100, PSC 101, PSC 102, PSC 103, PSC 110 or ECO 200 or consent of instructor.*

*Taught: Fall only-odd years*

Examination of national-level economic policy-making in the United States. Emphasis on how the political process affects economic policy.

**PSC 410 International Political Economy (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 415 United States Foreign Policy (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 425 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-even 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 470 The Post-Cold War World (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.*

*Taught: Spring only*

A global approach to international politics through studying the interdependence of the political, economic, environmental, and cultural relationships in today's world; characteristics of the evolving international system.

**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-odd yrs*

Development of international organizations; recent international organizations; role of United

Nations in peacekeeping and international socio-economic 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: Spring only-odd yrs*

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: Fall only-odd years*

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 (1-5 credits)**

*Hours: 0 classroom + 0 lab/studio*

*Taught: Fall, spring, and summer*

Students may enroll for real-world experiential credit with public or private hosts. Students must have the consent of Internship Coordinator.

**PSC 499 Readings and Practica for Seniors (1-3 credits)**

*Hours: 0 classroom + 0 lab/studio*

*Prerequisites: consent of program director.*

*Taught: Fall, spring, and summer*

Specialized reading or primary research interests completed through independent study at the direction of a specific instructor. May be repeated as projects vary.

## Psychology Courses (PSY)

**PSY 100 Introduction to Psychology - SB (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall, spring, and summer*

Systematic and scientific study of behavior from biological, behavioral, and cognitive perspectives; methods, history, biopsychology, perception, learning, development, cognition, personality, mental disorders, therapy, and social psychology.

*General education credit: Individual and Society*

**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.

*General education credit: Individual and Society*

**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 201 Cross-Cultural Psychology (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall and spring*

Cultural differences and similarities to understand individual development, relationships, and policies concerning issues in psychology (e.g., race, gender, class, health, language, etc.).

**PSY 210 Research Methods in Psychology (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: PSY 100 and STA 205.*

*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 210L Research Tools in Psychology (2 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Co-requisites: PSY 210 and PSY 210R.*

*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 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*

Assessment of individual values, interests, and abilities; investigation of psychology-related vocations; planning and decision-making skills regarding future careers.

**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 309L Psychology of Perception Laboratory (2 credits)**

*Hours: 3 classroom + 0 lab/studio*  
*Prerequisites: PSY 210 or equivalent; .*  
*Prereq OR Co-req: PSY 309 or equivalent.*  
*Taught: Variable, check with department*  
 Laboratory to accompany PSY 309.

**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; .*  
*Prereq OR Co-req: 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 316 Human Sexuality Forum (3 credits)**

*Hours: 3 classroom + 0 lab/studio*  
*Prerequisites: PSY 100.*  
*Taught: Variable, check with department*  
 Focuses on personal attitudes and values through structured exercises and discussion. Explicit content. Graded pass/fail. Credit is not given for both PSY 315 and PSY 316. Same as PSY 315.

**PSY 319 Child 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 among children in the physical, cognitive, personality, and social domains; biological, psychosocial, and cultural contextual causes for these differences. Students receiving credit for PSY 319 cannot receive credit for PSY 220.

**PSY 320 Adult Development (3 credits)**

*Hours: 3 classroom + 0 lab/studio*  
*Prerequisites: PSY 100.*  
*Taught: Variable, check with department*  
 Psychological development from adolescence through adulthood; physical, intellectual, social,

and personality development; developmental tasks involving identity formation, marriage, child rearing, work, retirement, and death. Students receiving credit for PSY 320 cannot also receive credit for PSY 220

**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; .*  
*Prereq OR Co-req: 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; .*  
*Prereq OR Co-req: 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.*  
*Prereq OR Co-req: PSY 340 or equivalent.*  
*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 348 Environmental Psychology (3 credits)**

*Hours: 3 classroom + 0 lab/studio*  
*Prerequisites: PSY 100.*  
*Taught: Variable, check with department*  
 Review of scientific literature on psychological aspects of interdependence of humans and their environment; environmental perception, effects of physical environment on behavior, physical space and behavior, environmental design, and strategies for preserving the environment.

**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 391W Writing in Psychology (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: major in psychology, PSY 100, one additional course in psychology, ENG 101 or ENG 151H, and sophomore standing.

Taught: Variable, check with department

Practice in types of writing most commonly encountered in psychology (case study, literature review, and report of an empirical study).

**PSY 400 Approaches to Psychotherapy (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 210, PSY 210L, PSY 333.

Taught: Variable, check with department

Theories and techniques of psychoanalytic, humanistic, behavioral, and cognitive therapies; evaluation of treatment outcome research.

**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; .

Prereq OR Co-req: 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 PSY492 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.

**PSY 497 Honors Project in Psychology (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to Honors in Psychology program.

Taught: Variable, check with department

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 areas of study; archival research, experiments, surveys, and/or applied projects. Specific activity is student initiated and in consultation with instructor. Up to 3 semester hours may be earned per semester; no more than 6 semester hours of PSY 492 and/or PSY499 may be applied toward certification of the major.

**PSY 501 I-O Discussion Forum (2 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: Consent of the I-O 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: Consent of MSIO 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: Consent of MSIO 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: Consent of MSIO director.

Taught: Spring only

Judgment and decision-making, heuristics, biases, persuasion, prejudice, diversity, values, and attitude measurement.

**PSY 594 Topics: Psychology (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Advanced seminar course; topic listed in Schedule of Classes each semester. Intended for graduate students and advanced undergraduates.

## Radiologic Technology Courses (RAD)

**RAD 101 Introduction to Allied Health (1 credit)**

Hours: 1 classroom + 0 lab/studio

Taught: Fall 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: Spring 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: Summer 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, vertebral column and upper airway.

**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 and vertebral column using simulation and phantoms; supervised practice and film critique. 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 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 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 (4 credits)***Hours: 4 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 230 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, vertebral column, 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 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 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 (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: C or better in RAD 303.**Taught: Spring only*

Introduction to specialized imaging and therapeutic modalities, including CT scanning, digital imaging, MRI, medical sonography, bone densitometry, nuclear medicine, and radiation therapy; sectional anatomy and related procedures and equipment.

**RAD 340 Radiation Biology and Protection (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: C or better in RAD 216.**Taught: Spring 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 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 394 Radiography Seminar (1 credit)**

*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 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*

*Taught: Spring only*

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: 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.

*General education credit: Culture and Creativity*

**REL 301 Ancient Religions (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*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: 3 semester hours in religious studies or philosophy, or consent of 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: 3 semester hours in religious studies or philosophy, or consent of 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*

*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: Prerequisites: 3 semester hours in religious studies or philosophy, or consent of 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.

*General education credit: Culture and Creativity*

**REL 307 Survey of Christianity (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 semester hours in religious studies or philosophy, or consent of instructor.*

*Taught: Variable, check with department*

Main beliefs, figures, orientations and branches of the Christian tradition; contemporary movements and issues.

*General education credit: Culture and Creativity*

**REL 320 Religion in America (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*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*

*Taught: Spring only-even yrs*

Reading and discussion of writings of representative contemporary theologians and writers; development of awareness of basis issues and patterns in recent theological thinking.

**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 350 World Religions and Ethics (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 semester hours in religious studies or philosophy, or consent of 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 360 Human Religious Experience (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 semester hours in religious studies or philosophy, or consent of 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 394 Topics: Religious Studies (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 3 semester hours in religious studies or philosophy.*

*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*

*Taught: Variable, check with department*

Individually supervised readings and study of a selected topic. May be repeated. PREREQ consent of instructor

**REL 594 Topics In Religious Studies (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: consent of instructor.*

*Taught: Variable, check with department*

Selected topics in religious studies. 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: Fall 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 RAD101

**RSP 201 Fundamentals of Respiratory Care (4 credits)**

*Hours: 4 classroom + 0 lab/studio*

*Prerequisites: admission to respiratory care program.*

*Co-requisites: RSP 201L and RSP 286.*

*Taught: Fall only*

Introductory respiratory care theory and procedures; medical terminology and mathematics review; basic respiratory system anatomy and physiology; pharmacology and administration procedures for aerosolized medications; theory and equipment for oxygen therapy, pulse oximetry, hyperinflation therapy, and mucus clearance techniques; principles of infection control.

**RSP 201L Patient Assessment Laboratory (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 Ventilatory Support (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: RSP 201-201L.*

*Co-requisites: RSP 220L.*

*Taught: Spring only*

Theory and application of procedures and equipment used for airway management, non-invasive ventilatory support, cardiopulmonary resuscitation, ECG arrhythmia recognition and treatment, bland aerosol and humidity therapy, arterial puncture, pharmacological treatment of infectious processes, and equipment disinfection and sterilization.

**RSP 220L Respiratory Laboratory II (1 credit)**

*Hours: 0 classroom + 2 lab/studio*

*Prerequisites: RSP 201-201L.*

*Co-requisites: RSP 220.*

*Taught: Spring only*

Demonstration and practice in intermediate respiratory care procedures: hand ventilation, nasotracheal and endotracheal suctioning, lung volume expansion therapies, cardiopulmonary resuscitation, tracheal tube care, and blood oxy-



gen monitoring by means of pulse oximetry and arterial puncture.

**RSP 235 Respiratory Physiology and Physics (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: RSP 201-201L and BIO 208-208L.*

*Co-requisites: BIO 209-209L.*

*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 (2 credits)**

*Hours: 0 classroom + 16 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 (2 credits)**

*Hours: 0 classroom + 16 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 Artificial Ventilation (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in RSP 220 and RSP 220L.*

*Co-requisites: RSP 310L.*

*Taught: Summer only*

Theory and procedures for providing artificial ventilation to patients in respiratory failure; indications for ventilatory support; techniques for evaluating ventilatory reserve; management and

weaning of patients on ventilators; critical thinking in application of PEEP, IMV, Pressure Support, and other modes of respiratory therapy used for critical patients.

**RSP 310L Respiratory Laboratory III (1 credit)**

*Hours: 0 classroom + 2 lab/studio*

*Prerequisites: C or better in RSP 220-220L.*

*Co-requisites: RSP 310.*

*Taught: Summer only*

Demonstration and practice with procedures and equipment used for the artificial ventilation, weaning and monitoring of patients requiring life support; pre-clinical training with the ventilators and procedures needed for RSP 386 Respiratory Practicum III, involving clinical experience with patients on artificial ventilation in area hospitals.

**RSP 331 Cardiopulmonary Diagnostics (2 credits)**

*Hours: 2 classroom + 0 lab/studio*

*Taught: Fall only*

Theory, procedures, and instrumentation used to evaluate hemodynamic and pulmonary function; interpretation of pressure waveforms and measurements and cardiovascular calculations and pulmonary function studies; quality control procedures; recent advancements in critical care.

**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 Chest Diseases (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall only*

Assessment techniques for pulmonary disease patients including history taking, chest physical exam, basic X-ray, lab study, and PFT interpretation; clinical presentation, pathology, and management of common pulmonary diseases-asthma, chronic bronchitis, emphysema, bronchiectasis, pneumonia, pulmonary embolism, heart failure, chest trauma, sleep apnea, adult respiratory distress syndrome, and neuromuscular disorders

**RSP 362 Prenatal-Pediatric Respiratory Care (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in RSP 310.*

*Co-requisites: RSP 396.*

*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 ther-

apeutic modalities; respiratory diseases commonly seen in pediatrics.

**RSP 386 Clinical Practicum III (3 credits)**

*Hours: 0 classroom + 16 lab/studio*

*Prerequisites: RSP 296.*

*Co-requisites: RSP 310-310L.*

*Taught: Summer 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 296.*

*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 441 Disease Management (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*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. This course will aid those wishing to become certified asthma educators.

**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 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*

*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 396.*

*Taught: Spring only*

Experience providing neonatal respiratory care; training in airway management techniques; development of leadership and time management skills; summative clinical rotations.

## 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*

*Co-requisites: CMST 101 (SOAR Learning Community).*

*Taught: Fall only*

First part of a specialized University 101 course specifically for Project SOAR: Scholarships, Opportunities, Achievements, and Results (SOAR) Scholars. This course is also part of a Learning Community with CMST 101.

**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.

**SCI 110 Integrative Natural Science - SL (4 credits)**

*Hours: 2 classroom + 3 lab/studio*

*Prerequisites: Math ACT of 19 or placement.*

*Prereq OR Co-req: ENG 101.*

*Taught: Fall and spring*

Introduction to the scientific process and major ideas of the natural sciences from the perspective of the various scientific disciplines.

*General education credit: Natural Science*

**SCI 110H Honors Integrative Natural Science - SL (4 credits)**

*Hours: 2 classroom + 3 lab/studio*

*Prerequisites: Math ACT of 22 or placement ENG 101,*

*GENERAL EDUCATION: Scientific and Quantitative Inquiry.*

*Prereq OR Co-req: ENG 101.*

*Taught: Spring only*

Introduction to the scientific process and major ideas of the natural sciences from the perspective of the various scientific disciplines.

*General education credit: Natural Science*

## 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: Cultural Pluralism, General*

*education credit: Global Viewpoints*

**SOC 110 Introduction to Race and Gender (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Issues of race and gender relations in the U.S. and other societies; basic information on race/gender and their forms and functions in multicultural, multiethnic society.

**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 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 240 Peoples of Africa (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Prehistory, geography, history, and cultures of Sub-Saharan Africa to the present; culture area concept.

**SOC 245 Latin American Societies (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: sophomore standing.*

*Taught: Variable, check with department*

Contemporary cultures of Latin America; problems of contact, colonization, acculturation, development of the area cultural tradition; contemporary urbanization. Same as ANT 245.

**SOC 300 Race and Ethnic Relations (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: SOC 100.*

*Taught: Spring only*

Dominant-minority intergroup relations; prejudice, discrimination, and other intergroup processes; racial and ethnic minorities in U.S. society.

**SOC 301 World Patterns of Race Ethnicity (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: SOC 100 or ANT 100.*

*Taught: Fall only*

Patterns of intergroup relations in multi-ethnic societies; similarities and differences between these and U.S. Same as ANT 301.

**SOC 303 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 305 Criminology (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: SOC 100.*

*Taught: Variable, check with department*

Concepts, theories, and major research findings of crime and criminal behavior; analysis of the criminal justice system, including various forms of corrections and rehabilitation.

**SOC 307 Social Stratification (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: SOC 100.*

*Taught: Variable, check with department*

Theories of social class; distribution of wealth, prestige, and power in U.S.; patterns of social mobility.

**SOC 308 Social Organization (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 315 Marriage and the Family (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: SOC 100.*

*Taught: Variable, check with department*

Major theoretical approaches with emphasis on interaction; the family as a social institution, with cultural, social, and emotional implications of dating and mate selection; meeting family crises and problems; marital adjustment; social changes affecting the family.

**SOC 318 Sociology of Work and Occupations (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: SOC 100.*

*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 320 Social Research (4 credits)**

*Hours: 4 classroom + 0 lab/studio*

*Prerequisites: SOC 100.*

*Taught: Fall only*

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 330 Sociological Theory (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: SOC 100.*

*Taught: Fall and spring*

Major classical and contemporary sociological theories and their exponents.

**SOC 332 Collective Behavior (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Crowd, mass, and public behavior; relationship to social improvements (especially contemporary); analysis of leadership roles in various types of collective behavior; factors and processes at work in emergence of social order.

**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 demographics and social and economic variables.

**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**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 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 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 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 (2 credits)***Hours: 2 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 520 Sociology of Education (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: consent of instructor.**Taught: Variable, check with department*

Connection of education to the external social system; education as a web of organizations and

associations and as a subsystem of other institutions.

### **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 305 Sports Marketing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: MKT 305.*

*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 308 Sports Promotion Tools (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: MKT 305.*

*Taught: Fall and spring*

This course is designed to analyze the current factors and issues related to the sports promotion mix, including sponsorship planning, sales and negotiations, advertising and community relations.

### **SPB 309 Sports Public Relations (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: MKT 305.*

*Taught: Fall and spring*

Introduction to the element of the promotion mix that identifies, establishes and maintains 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 340 Sports Tourism Marketing (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in MKT 305.*

*Taught: Variable, check with department*

Comprehensive coverage of the sports tourism industry. Unique aspects of marketing destination sports events, as well as financing and management issues.

### **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 Signature Sports Event I (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall only*

Experiential learning course that provides students who intend to enter into a career in sports business with the opportunity to create and plan an annual signature sporting event. Hands-on responsibility for all aspects of sports event planning, leadership and management. Students should plan to take SPB 497 in the following semester to execute the event. PREREQS: SPB 305, SPB 308, certified Sports Business major, senior standing, consent of instructor.

### **SPB 497 Signature Sports Event II (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: SPB 496 and consent of instructor.*

*Taught: Spring only*

Experiential learning course that provides students who intend to enter into a career in sports business with the opportunity to execute an annual signature sporting event. Hands-on responsibility for all aspects of sports event planning, leadership and management of execution.

This course is the second phase of SPB 496 and implements event plans developed in that course.

### **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 180 Elementary Individual Programmed Instruction in Spanish (1 credit)**

*Hours: 1 classroom + 0 lab/studio*

*Prerequisites: SPI 101 or equivalent and consent of instructor.*

*Taught: Variable, check with department*

Individual work for students desiring additional instruction in grammar, pronunciation, vocabulary and cultural topics. May be repeated once for credit.

### **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 280 Individualized Programmed Instruction in Spanish (1 credit)**

*Hours: 1 classroom + 0 lab/studio*

*Prerequisites: SPI 201 or equivalent and consent of instructor.*

*Taught: Variable, check with department*

Laboratory exercises for students desiring additional work in grammar, pronunciation, and vocabulary. May be repeated once for credit.

**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*

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 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 330 Studies in Spanish Language Cinema (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*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. PREREQ SPI 202 or equivalent

**SPI 340 Business Spanish (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: SPI 202 or equivalent.*

*Taught: Variable, check with department*

Spanish business terminology; practice in writing and translating business letters. For students majoring in business and other seeking to broaden their career opportunities.

**SPI 350 Methods of Teaching Spanish (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 6 semester hours of Spanish at the 300 level or above.*

*Taught: Spring only*

Theoretical and practical considerations of teaching Spanish in secondary schools. Required of all students seeking teaching certification in Spanish.

**SPI 401 Spanish Phonetics and Pronunciation (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-even yrs*

Study of Spanish sound system, how sounds are produced, which ones are used in Spanish, and in what contexts they occur. Satisfies the linguistics requirement for Spanish Education majors.

**SPI 402 Advanced Spanish Grammar and Syntax (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-odd yrs*

Study of grammar through analysis of key linguistic structures and applied practice. Analysis of word formation, sentence structure, and semantics. Satisfies the linguistics requirement for Spanish Education majors.

**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 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 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 and literature.

**SPI 520 Readings in Spanish (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: 300-level Spanish course.*

*Taught: Variable, check with department*

Various literary, linguistic, cultural, and pedagogical topics. May be repeated for credit as 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 Interactional 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 interactional 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. Offered Fall.

**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. Offered Spring.

**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 or with consent of instructor. Offered Spring.

**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 case-work, psychosocial model, and behavior modification to these small systems. Course restricted to Social Work majors accepted into the program. Offered Spring.

**SWK 394 Topics: Social Welfare (1-3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

A specific aspect of social work practice or social welfare concern. See Schedule of Classes for current topic and prerequisites.

**SWK 404 Social Work Practice: Individuals, Families and Groups (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Grade of C or better in SWK 105, 203, and 305.*

*Taught: Variable, check with department*

Selected practice modalities applied to social work intervention in small systems; individuals, families, and groups; problem solving approach, task centered casework, psychosocial model, and behavior modification. Course restricted to Social Work majors.

**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. Offered Spring.

**SWK 406 Field Instruction I (5 credits)**

*Hours: 5 classroom + 0 lab/studio*

*Taught: Fall and spring*

Field placement of 200 hours in a community social service agency under supervision of professional staff; increased ability to apply knowledge and skill to social work interventions. Participation in weekly seminar. Grade of C or better in SWK 303, 304, 305, 307, 308, 310, 405, 407. Course restricted to Social Work majors accepted into program and consent of Field Director. Offered Fall and Spring.

**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. Offered Fall.

**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. Offered Fall and Spring.

**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 455 Multicultural Family Experiences (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

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 494 Special Topics: Bachelor of Social Work (1-6 credits)**

*Prerequisites: Varies with topic (see Schedule of Classes).*

*Taught: Variable, check with department*

Various advanced topics in social work.

**SWK 499 Independent Study (1-6 credits)**

*Hours: 1-6 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Individual readings, research, or field-based course developed by the student in consultation with instructor and approved by social work chair prior to registration.

**SWK 510 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 515 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 Based 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 565 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 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.

## Statistics Courses (STA)

**STA 110 Introductory Probability (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in MAHD 095 or MAHD 099 or placement.*

*Taught: Fall and spring*

Enumeration techniques and probability theory. Not open to students who have completed STA 250.

**STA 111 Basic Probability (1 credit)**

*Hours: 1 classroom + 0 lab/studio*

*Prerequisites: STA 205 or STA 212 and consent of chairperson.*

*Taught: Variable, check with department*

Probability; basic counting techniques.

**STA 113 Introduction to Probability and Statistics - 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*

Probability; basic counting techniques; graphical descriptive methods; numerical descriptive methods; normal distribution; sampling distribution of a proportion; estimation of a proportion. Not open to students who have completed both of MAT/STA 110 and STA 205, or both of MAT/STA 110 and STA 212, or STA 250 or STA 314.

*General education credit: Mathematics*

**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.

*General education credit: Mathematics*

**STA 205H Honors Introduction to Statistical Methods (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C or better in MAH 099 or placement.*

*Taught: Variable, check with department*

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. A general education course (mathematics).

*General education credit: Mathematics*

**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*

*Prerequisites: C- or better in MAT 129 or COREQ: MAT 227.*

*Taught: Fall and spring*

Introduction to probability and statistics; discrete distributions, continuous distributions, sampling distributions, estimation and hypothesis testing.

### **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 340 Probability II (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in STA 250 and (MAT 228 or MAT 229).*

*Taught: Fall only*

Further study of topics in STA 250; multivariate distributions, approximations, functions of random variables; additional topics.

### **STA 341 Statistics II (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: C- or better in STA 250.*

*Taught: Spring only*

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*

*Prerequisites: C- or better in STA 213 or STA 341; or COREQ: 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.

### **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 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 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.

## Theatre Courses (TAR)

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**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.  
*General education credit: Culture and Creativity*

**TAR 102 Race, Gender and Theatre - SB (3 credits)**

*Hours: 3 classroom + 0 lab/studio*  
*Taught: Fall, spring, and summer*  
 Exploration of race, gender and social issues which affect individuals, families, communities and society at large by the analysis and discussion of dramatic literature.  
*General education credit: Cultural Pluralism*

**TAR 104 Introduction to NKU Theatre and Dance (0 credits)**

*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: Oral Communication*

**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 130 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*  
*Taught: Fall and spring*  
 Basic elements of scenery construction or basic sewing skills for theatrical costumes overview of the theatrical production emphasizing practical application COREQ TAR 160L

**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 210 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 History of the Theatre and Dramatic Literature I (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall only*

History of significant developments in theatre and dramatic literature from pre-Greek times to the mid-15th century.

**TAR 347 History of the Theatre and Dramatic Literature II (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: TAR 346.*

*Taught: Spring only*

History of significant developments in theatre literature from the mid-15th century to 1875.

**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 360 Scene Design I (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 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*

Design skills and building techniques involved in props and effects for the stage.

**TAR 362 Drafting For Theatre (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: TAR 160.*

*Taught: Variable, check with department*

A lecture/project class that teaches the basic techniques and practices of drafting for the theatre. Projects require students to create typical working drawings for theatre productions utilizing

industry standards. This course covers the use of mechanical and computer based techniques.

### **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.*

*Taught: Fall only-even years*

Application of principles of design to stage costuming; fabrics, figure drawing, and characterization. TAR 343 recommended.

### **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 441 Special Problems in Theatre and Criticism (3 credits)**

*Hours: 3-6 classroom + 0 lab/studio*

*Prerequisites: two TAR Group III courses or consent of instructor.*

*Taught: Variable, check with department*

See TAR 411.

**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 III (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 area 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. Spring.

**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 151; 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 491.

**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.

### TAR 580 Adv. Studies in the Art of Playwriting (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Department permission.*

*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.

### TAR 582 Adv. Studies in the Art of Screenwriting (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Advanced exploration of the elements and techniques 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.

### TAR 599 Advanced Individual Studies in Theatre (1-3 credits)

*Hours: 1-3 classroom + 0 lab/studio*

*Prerequisites: Graduate Standing or Consent of Department.*

*Taught: Variable, check with department*

Individual creative or research projects in one or more areas: playwriting, directing, acting, dance, stagecraft, scene design, costume design, lighting design, sound design, dramaturgy or theory/criticism. Projects directed or mentored by TAR faculty must be approved prior to registration.

## 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.

### UNV 301 University 101 Teaching Internship (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: Junior standing; minimum GPA of 3.*

*Taught: Fall only*

Enrolled students will serve as teaching assistants in a University 101 class. Students will assist with class planning, make oral presentations on 101 topics, lead large and small group discussions, provide expertise and serve as mentors for new students. 0; instructor consent.

## Vocational Teacher Education Courses (VTE)

### VTE 199 Independent Study: Vocational Pre-Certification (3 credits)

*Hours: 1 classroom + 15 lab/studio*

*Prerequisites: verification of eligibility by Kentucky Department of Education.*

*Taught: Variable, check with department*

Completion of Kentucky Teacher Internship and Kentucky Department of Education management of Instruction workshop. Graded pass/fail.

## Women's and Gender Studies Courses (WGS)

### WGS 150 Introduction to Contemporary Gender Issues - SB (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall, spring, and summer*

Uses gender as a lens to analyze: the social, political, economic, cultural, and personal conditions of people in multi-ethnic societies; the complex ways of the social construction of gender; and the interaction of gender, race, sexuality, and class on the diversity of peoples' experiences within the United States and globally; and how our understanding of those experiences informs our understanding of cultures as a whole and our place in them.

*General education credit: Cultural Pluralism*

### WGS 150H Honors Introduction to Women's Studies (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Interdisciplinary and cross-cultural readings on social, political, economic and personal condition of women in multi-ethnic society; complex ways of social construction of gender; interaction of gender, race, an class on women's lives.

*General education credit: Cultural Pluralism*

### WGS 211 Survey of Women's Literature I (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: ENG 101 or ENG 151 or equivalent.*

*Taught: Variable, check with department*

Writing from many genres by women of many cultures from antiquity through the 19th century.

### WGS 212 Survey of Women's Literature II (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Writing from many genres by women of many cultures from the early 20th century to the present.

### WGS 250 Introduction to Gender Studies (3 credits)

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Introduction to gender analysis as a way of addressing gender and gender inequality as cultural phenomena. The diversity of peoples' experience and how our understanding of those experiences informs our understanding of the culture as a whole and our place in it.

**WGS 310 Women, Wages, and Work (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: sophomore standing.*

*Taught: Fall, spring, and summer*

Interdisciplinary and multicultural examination of impact of gender, race, sexual orientation, and class on working women in the U.S.; past and present status of women's wages and opportunities; relationships between working women and their employers; cooperation and competition among working women from diverse backgrounds.

**WGS 317 Gender and Communication (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Principles, concepts and characteristics defining gendered communication. This course will enhance understanding of the elements key to successful communication across genders, whether they are business, personal, social, familial, or intimate. The role of socialization in gendered development will also be explored. Same as CMST317. Students may not receive credit for both.

**WGS 350 Perspectives in Feminist Theory (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: WGS 150 or WGS 250 or consent of the instructor.*

*Taught: Spring only-even yrs*

Feminist theories from different disciplinary perspectives (e.g. feminist philosophy, feminist literary theory, feminist history, feminist art theory). May be repeated for credit when topics vary.

**WGS 381 Women In Literature (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Advanced readings and discussion of literary works by women or images of women in literature. May be repeated for credit when subjects differ.

**WGS 382 Women and Society (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Readings and discussion in the general areas of women's contributions to major historical events, the history of women, or women's part in social movements or groups. May be repeated for credit when subjects differ.

**WGS 383 Women and World Cultures (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall only*

Readings and discussion of the roles of women in individual world cultures; women's particular

cultures in history or the challenges to women in the cultures of their careers in the modern world. May be repeated for credit when subjects differ.

**WGS 384 Women, Nature, and the Inner Self (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Philosophical, spiritual or psychological aspects of women's lives and senses of identity; women caring for the environment; particular achievements by and challenges to women in the sciences and mathematics. May be repeated for credit when subjects differ.

**WGS 388 African-American Women's History and Culture (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Spring only-even yrs*

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. This course satisfies Afro-American Studies history option. Same as HIS 438.

**WGS 394 Topics: Women's and Gender Studies (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Fall and spring*

Interdisciplinary and intensive study of a specific and significant topic in women's and gender studies. Topics vary from semester to semester. May be repeated for credit when subjects differ. See Schedule of Classes for current topic and prerequisites.

**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 United States since 1900 (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: HIS 103.*

*Taught: Fall only-even years*

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 Seminar: Women's and Gender Studies (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Prerequisites: completion of one women's and gender studies course.*

*Taught: Spring only-add yrs*

Theory and research practices characterizing women's and gender studies and their effect on traditional academic disciplines; designing research projects. Information and methodology from each discipline presented by women's studies faculty.

**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 Topics: Women's and Gender Studies (3 credits)**

*Hours: 3 classroom + 0 lab/studio*

*Taught: Variable, check with department*

Advanced interdisciplinary study of a specific topic or issue of particular significance to women. May be repeated for credit when subjects differ.

**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.

## 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-add 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.

# UNIVERSITY ADMINISTRATION

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 Richard J. Meyers, Assistant Vice President for Marketing and Communications  
 Donald A. Gorbandt, Assistant Vice President for University Development  
 Karen Zerhusen Kruer, Executive Director of the NKU Foundation  
 Charles Miller, General Manager of WNKU



# FACULTY

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- Acosta, Charles A.**, Associate Professor of Biology (2001) Ph.D., Old Dominion University, 1997.
- Adams, Kimberely**, Lecturer of Public Administration (2010) J.D., Salmon P Chase College of Law, 1985, B.A., Northern Kentucky University, 1982.
- Agard, Dave B.**, Associate Professor of Statistics, (1990) Ph.D., Virginia Polytechnic Institute, 1990, M.S., Virginia Polytechnic Institute, 1985, B.A., University of Virginia, 1982.
- Ahmed, Shamima**, Professor of Public Administration, (1995) Ph.D., Virginia Polytechnic Institute & State University, 1991, M.A., University of Akron, 1986.
- Akers, Wesley R.**, Lecturer of Electronic Media, (2004) M.A., Florida Atlantic University, 2005, B.A., Northern Kentucky University, 1996.
- Alberti, John**, Professor of English, (1991) Ph.D., University of California Los Angeles, 1989, M.A., University of California Los Angeles, 1984, B.A., University of Southern California, 1981.
- Albritton, Matthew T.**, Lecturer of Art, (2001) M.F.A., The University of Texas at Austin, 2001, B.A., University of California at Santa Cruz, 1993.
- Allen-Kattus, Kimberly F.**, Associate Professor of Art, (1988) Ph.D., The Union Institute, 1996, M.A., University of Cincinnati, 1983, B.A., Indiana University of Pennsylvania, 1976.
- Allen, James G.**, Assistant Professor of Educational Leadership (2010) Ed.D., Urban Educational Leadership, 2003, M.Ed., University of Cincinnati, 1994, B.S., University of Cincinnati, 1991.
- Almqvist, Arne J.**, Associate Professor of Library Science (2001) Ph.D., University of North Texas, 2006, M.S., University of North Texas, 1992, M.F.A., University at Buffalo, 1982, B.A., University at Buffalo, 1980, B.F.A., University at Buffalo, 1980.
- Altekruse, Michael K.**, Professor of Counseling & Human Services (2005) Ed.D., Indiana University, 1967, M.S., Indiana University, 1965, B.S., Indiana University, 1962.
- Anderson, Janalynn S.**, Senior Lecturer of Mathematics (1995) M.A., Miami University, 1971, B.S., Miami University, 1970.
- Antes Schuelke, Alison**, Assistant Professor of Organizational Leadership (2010) Ph.D., University of Oklahoma, 2010, MS, University of Oklahoma, 2007, B.S., Indiana State University, 2005.
- Arrighi, Barbara A.**, Professor of Sociology (1989) Ph.D., University of Cincinnati, 1991, M.S., University of Cincinnati, 1986, B.S., University of Cincinnati, 1982.
- Atkinson, Pam S.**, Lecturer of Business Informatics (2011) M.S. Northern Kentucky University, 2001.
- Attenweiler, William J.**, Associate Professor of Psychology (2002) Ph.D., Clemson University, 2002, M.S., Clemson University, 2000, B.A., University of Maine, 1975.
- Austen, Steven**, Lecturer of Chemistry (2010) Ph.D., University of Cincinnati, 2000.
- Bailey, Rebecca J.**, Associate Professor of History (2006) Ph.D., West Virginia University, 2001, M.A., West Virginia University, 1990, B.A., College of William and Mary, 1988.
- Baker, Matthew**, Assistant Professor of Journalism (2008) Ph.D., University of Utah, 2008, M.A., University of Minnesota - Twin Cities, 2004.
- Baldridge, Hildegard A.**, Lecturer II of Biology (1996) Ph.D., University of Kentucky, 1983, B.S., Eastern Kentucky University, 1978.
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# KENTUCKY RESIDENCY

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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. They can be found online at <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.
- Been employed full-time for 1 year while living in Kentucky.
- 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 (<http://registrar.nku.edu/students/residency.php>).

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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