

NORTHERN KENTUCKY UNIVERSITY
UNDERGRADUATE CATALOG 2011-2012

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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

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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THE UNIVERSITY

Welcome from the President



It is my pleasure to welcome new and returning students to another year at Northern Kentucky University where we are committed to helping students realize their dreams. Through an extraordinarily dedicated faculty and staff, small classes, and "up close and personal" attention, students can excel beyond their own expectations. Together, faculty and students explore the frontiers of knowledge, expand their horizons, contribute to the creation of knowledge, and work to improve the quality of life in our communities. Our goal is to help students develop a love of learning as they prepare for the roles and responsibilities they will embrace in the future. As you read our mission, vision, and values that follow, you will learn more about the foundation upon which NKU operates.

I urge you to carefully review the catalog. It contains information that will be valuable to you at each stage in your journey at NKU. And this year, for the first time, there is an online, fully searchable version that will let you easily find the information you are seeking, be it details about our academic programs, information on our policies and procedures, special opportunities to support student growth and learning, and a host of other topics.

Best wishes for great success at NKU.

Sincerely,

James C. Votruba, President

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 renamed 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, the fourth and current president of NKU, took over as president in 1997. Under his leadership, new programs have been added – including cutting-edge undergraduate programs, more master's degree options, and two doctoral programs – as well as new facilities. Both the new 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. NKU'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 followed in 2010, winning the national title in soccer.

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 2010, the university enrolled 15,748 students, of which 86 percent were undergraduates, 10 percent were graduate students, and the remaining 4 percent were law students. They benefit from a student-centered faculty including 532 full-time and 456 part-time faculty. Students and faculty alike benefit from the support of 1,055 extremely dedicated administrators and staff. The university offers undergraduates the associate degree 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 63 majors and 76 minors. Campus facilities have grown significantly in recent years, and in the fall of 2011, the university opens 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 (ACE); 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. Two campus buildings are being renamed, effective in the fall of 2011. The Applied Science and Technology Building is being renamed the Business Academic Center (BC); the Business Education Psychology Center (BP) is being renamed the Mathematics Education Psychology Center (MP). Throughout the catalog, the buildings are referred to by their new names.

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		
Architectural Drafting					U
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 ^P				
Business Administration		BS* ^P	M		
Business and Marketing Education				TC	
Business Informatics		BS* ^P	M		U ^O
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 ^O	M		
Computer Forensics			M		
Computer Information Technology		BS ^P	M		
Computer Science		BS	M		
Construction Management		BS ^O	M		
Construction Technology	AD				
Counseling and Human Services		BS ^P	M		
Creative Writing			M		
Criminal Justice	AD ^O	BA ^O	M		
Criminalistics			M		
Dance		BFA	M		
Design and Technology		BFA			
(Interdisciplinary) Early Childhood Education		BA		TC	

Discipline	Associate	Bachelor	Minor	Teaching Certification	Certificate
Earth/Space Science				TC	
Economics		BS	M		
(Applied) Economics and Public Policy					PB
Electronic Media and Broadcasting		BA	M		
Electronics Engineering Technology		BS			
Electronics Technology			M		
Elementary Education		BA*		TC	
English		BA	M	TC	
English for Business Students			M		
Entrepreneurship		BS	M		PB ^o
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 ^o			
History		BA	M ^o		
Honors			M		
Human Resource Management		BS			
Industrial Technology			M		
Information Security			M		
Information Systems Development					PB
Information Systems Management					PB
Integrative Studies	AD ^p	BA ^p			
International Studies		BA	M		
Japanese Studies			M		
Journalism		BA	M		
Latin American & Caribbean Studies			M		
Library Informatics		BS ^o			
Management		BS*	M ^o		
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		

Discipline	Associate	Bachelor	Minor	Teaching Certification	Certificate
Neuroscience			M		
Nursing		BSN*			
Nursing: Registered Nurse to BSN		BSN* ^U			
Organizational Leadership		BA ^{PO}	M		U
Philosophy		BA	M		
(Applied) Philosophy			M		
Physical Education		BA*	M	TC	
Physics		BA/BS	M	TC	
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
Freshman		
Early Action	January 15	
Priority		November 1
Assured Consideration	May 1	
Enrollment Confirmation	May 1	December 1
Final Deadline	August 1	December 1
Transfer/Postbaccalaureate/ Readmission/Non-Degree		
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 \$25 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.

*Applicants may submit a paper application, but they will be assessed a \$40 application fee.

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

NOTE: Effective September 1, 2011, a \$40 fee will be assessed for both online and paper applications.

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 \$25 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.

*Applicants may submit a paper application, but they will be assessed a \$40 application fee.

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

NOTE: Effective September 1, 2011, a \$40 fee will be assessed for both online and paper applications.

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 COMPASS score in place of ACT or SAT scores.

*Combined mathematics and critical reading score

The purpose of this evaluation is to determine the applicant's preparation for college-level coursework. The evaluation considers whether the applicant meets the minimum requirements 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 transferrable 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
English Language Arts -- English I, II, III, IV, or AP English	4
Mathematics -- Algebra I, Algebra II, Geometry*	3
Science -- Biology I, Chemistry I, Physics I or life science, physical science, and earth/space sciences (at least one lab course)	3
Social Studies -- U.S. history, economics, government, world geography, and world civilization	3
Foreign Language -- Two credits in the same language or demonstrated competency	2
Health	1/2
Physical Education	1/2
History and Appreciation of Visual and Performing Arts -- History and appreciation of visual and performing arts or another arts course that incorporates such content	1
Electives -- Strongly recommended: one or more courses that develop computer literacy	5
TOTAL CREDITS	22

*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 70 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 with 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 transferrable credit hours** must submit the following:

1. An online application form* (<http://apply.nku.edu>).
2. A \$25 nonrefundable application fee**.
3. Official transcripts from each college attended.

*Applicants may submit a paper application, but they will be assessed a \$40 application fee.

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

NOTE: Effective September 1, 2011, a \$40 fee will be assessed for both online and paper applications.

Potential transfer students with a **GPA of at least 2.00** and **fewer than 24 transferrable 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 \$25 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.

*Applicants may submit a paper application, but they will be assessed a \$40 application fee.

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

NOTE: Effective September 1, 2011, a \$40 fee will be assessed for both online and paper applications.

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 \$25 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.

*Applicants may submit a paper application, but they will be assessed a \$40 application fee.

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

NOTE: Effective September 1, 2011, a \$40 fee will be assessed for both online and paper applications.

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 with fewer than 24 semester credits. 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 OR 450 or higher on Critical Reading
Mathematics	460 or higher
Reading	470 or higher
COMPASS Scores	College Ready Score
English	70 or higher
Mathematics	41 or higher
Reading	84 or higher

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. More information about the developmental program is available online.

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). Additionally, some academic programs or courses may require

higher ACT/SAT/COMPASS scores as prerequisites to enter those programs or 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. \$25 nonrefundable application fee**.
3. Official transcripts from each college attended since leaving NKU.

*Applicants may submit a paper application, but they will be assessed a \$40 application fee.

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

NOTE: Effective September 1, 2011, a \$40 fee will be assessed for both online and paper applications.

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 \$25 nonrefundable application fee**.
3. Official transcripts from each college attended other than NKU.

*Applicants may submit a paper application, but they will be assessed a \$40 application fee.

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

NOTE: Effective September 1, 2011, a \$40 fee will be assessed for both online and paper applications.

School-Based Scholars "4+1" 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. The cost of each class is \$200 for the 2011-12 academic year. 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 "4+1" Program is also available at the Grant County Center where students may enroll in four classes that are part of the School-Based Scholars "4+1" Program, followed by one class either at the Highland Heights campus or the Grant County Center.

High school students are eligible for the School-Based Scholars "4+1" 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 2.5 college GPA in order to continue taking classes 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.

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 "4+1" 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 \$25 nonrefundable application fee.

*Applicants may submit a paper application, but they will be assessed a \$40 application fee.

NOTE: *Effective September 1, 2011, a \$40 fee will be assessed for both online and paper applications.*

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 are available through PACE including associate degrees in pre-business studies, business informatics, and integrative studies, and bachelor's degrees in business administration, 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).

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 (90 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 or sending an e-mail (edoutreach@nku.edu).

Online Learning

Educational Outreach provides administrative and student-support services for 17 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. Interested individuals can determine if online learning is right for them by taking a quick Online Readiness Quiz. 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).

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).

Professional Continuing Education

A 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) or calling 859-392-2400.

Application and Enrollment Fee Policies

Application Fee Waivers

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

1. A high school counselor or principal.
2. A Talent Search counselor 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 (edoutreach@nku.edu) 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

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

Director:

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: oisss@nku.edu

Web Address: <http://oisss.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

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 monthly coffee hours and various events to promote and expose students to American life and culture. 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 and not by individual courses or classes offered within the program.

International applicants are required to submit the following credentials:

1. International online application for undergraduate admission* <http://www.nku.edu/apply>.
2. A \$25 nonrefundable application fee**.
3. Declaration and certification of finances.
4. Official transcripts of secondary work (or appropriate certificates of examination) 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 this application.

**Students may submit a paper application but they will be assessed a \$40 application fee.

NOTE: Effective September 1, 2011, a \$40 fee will be assessed for both online and paper applications.

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

International Students	For Fall Semester	For Spring Semester
Final Deadline	July 15	November 15

Summer term admission is typically not available to fully admitted international students. If a 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: computer based of 173 (known as a CBT), 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. Documentation of having successfully completed Level 109 at an ELS Language Center in the U.S.
4. 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.
5. 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 are a band of 5.0.
6. 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.

NOTE: Students wishing to declare pre-nursing as a major must have minimum TOEFL CBT of 213, paper based of 550, iBT of 79, or IELTS score of 6.5. To be considered for admission to the nursing program, international students must submit an iBT of at least 90. The paper-based TOEFL is not acceptable for admission to the nursing program.

International students educated in countries where English is the official 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 the official language. International students exempted from proof of English proficiency are still

required to take the COMPASS, SAT, or ACT to be considered for admission. Some departments such as nursing may have other selective admission requirements that do not accept COMPASS scores for admission purposes. An interview with the program director may be required.

Placement Testing Requirements for International Students

Once admitted, all undergraduate international students (including transfer students) are required to take one or more placement exams in order to determine placement in English, reading and mathematics unless specifically exempted by the university. All placement exams are administered by Testing Services at NKU. Placement tests must be taken prior to orientation or enrollment in any courses at NKU. Each placement test can be taken only once. Students register for placement tests online (<http://testing.nku.edu>).

Writing Placement Test

All international students are required to take the placement writing exams before meeting with an academic advisor and before registering for any classes at NKU. Undergraduate international students may be exempt from taking the placement writing exam by submitting one of the following:

1. A TOEFL score of CBT 213, paper based 550, or iBT 79 or higher.
2. An IELTS 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 language as determined by the Office of International Students and Scholars.

Reading Placement

The reading exam is not required unless the student's TOEFL reading sub-score is below 48 (paper-based), 14 (Internet-based) or an IELTS reading sub-score of 5.0. 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, students with passing test scores on the placement exams will not be required to take any additional

developmental courses prior to registration, but an individual department may request that the student do so. However, international students who do not receive a passing score on the placement exams will be required to take developmental courses offered through the Learning Assistance Program. Students with an academic deficiency are required to enroll in all necessary developmental 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.

Developmental Reading Courses

Students requiring developmental reading may be placed in any section of "RDG 091: Reading Workshop" or "RDG 110: Critical Reading."

Developmental Mathematics Courses

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."

English Transfer Credit Policy for International Students

International students who are conditionally admitted to NKU 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 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 or the student received full admission having secured an eligible TOEFL or IELTS score above the minimum required for full admission.

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) and detailed course descriptions in order for courses 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) no later than 30 days after the start of the student's first semester at NKU. The student should contact OISS for more information. OISS does not guarantee course equivalencies but will work with departments to evaluate coursework as appropriate.

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

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

Director: Jamie Tanzman

Instructors: James K. Duvall, Olga Filatova, Judy Geringer, 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 every 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) 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.

To be considered for concurrent enrollment (bridge program), an Intensive English Program student should have a paperbound TOEFL score of at least 485 or an equivalent score as determined by the university on the Internet-based TOEFL or the International English Language Testing Service (IELTS). The student must also have been enrolled in the Intensive English Program for at least two 8-week terms 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. Students must 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) or other equivalent exam.

NOTE: AELP students who achieve a TOEFL score below 550 may 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"). To be exempt from this requirement, students must achieve a passing score on the writing placement test. Placement tests must be taken prior to orientation or enrollment in any courses at NKU. Each placement test can be taken only once. 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 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 issues the DS-2019 necessary for the student to arrive in the United States with a J-1 exchange visitor's visa status. Orientation and SEVIS reporting are also handled by this office.

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 a student health plan available to the university. Information about the student health insurance plan is available through the Office of Health, Counseling, and Prevention Services (859-572-5650). Certain international students may be eligible to request a Waiver Petition Form as determined by the 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.

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 cancelation 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 week before the semester begins).

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 by the 15th of the following month, bringing the total paid to 75 percent of the bill.
3. The remaining balance is due by the 15th of the third month of the semester, which is 60 days after the initial payment was due. Accounts must be paid in full by the close of business on the 15th of the third month of the semester.

Financial Warning and Cancelation 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 cancelation for nonpayment or cancelation 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.

Dunning Notices/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 *dunning notice* to his or her NKU e-mail account. Any student who continues to remain unpaid by the fourth dunning notice will receive the fourth dunning notice/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 any 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.

Refunds

7-Day Hold

All refunds are subject to a maximum 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 is here:

Previous academic hours – (dropped hours * tuition

adjustment percent) + added hours = 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. They will get refunds by signing up for direct deposit. At myNKU, they go to Biller Direct, select the direct deposit tab, and enter their bank information.

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, 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 at least 50 percent of 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. 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.

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 renewability 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 Class rank top 10 percent 30+ ACT or 1340+ SAT*	Full tuition, room and board
Presidential Scholarship	3.25+ GPA Class rank top 15 percent 27+ ACT or 1220+ SAT*	Full tuition
Governor's Scholar Award	3.0+ GPA Class rank top 20 percent 24+ ACT or 1090+ SAT* Kentucky Governor's Scholar Program participant	In-state tuition
Excellence Scholarship	3.0+ GPA Class rank top 20 percent 26+ ACT or 1190+ SAT*	\$3,000 to \$5,000 award
Commonwealth Scholarship	3.0+ GPA Class rank top 20 percent 25+ ACT or 1150+ 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 1060+ 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)	Class rank top 25 percent 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; and Kentucky resident who can demonstrate financial need; and declared major in biological sciences, chemistry, computer information technology, computer science, environmental science, geology, mathematics, physics, statistics, pre-engineering, or engineering technology program	Varies as a function of federally determined need
Haile/US Bank College of Business Ohio Tuition Award	3.0+ GPA Class rank top 20 percent 23+ ACT or 1060+ 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 or certificate. 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.

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.

TYPES OF FINANCIAL AID	ANNUAL AMOUNT	REPAYMENT REQUIRED	TYPE OF APPLICATION REQUIRED ANNUALLY & APPLICATION DEADLINE	REMARKS
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.
Kentucky War Veterans' Dependents	Full tuition	NO	The Kentucky Center for Veterans' Affairs Application	To determine eligibility, contact the Kentucky Center for Veterans Affairs at 1-800-572-6245.
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.
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.

TYPES OF FINANCIAL AID	ANNUAL AMOUNT	REPAYMENT REQUIRED	TYPE OF APPLICATION REQUIRED ANNUALLY & APPLICATION DEADLINE	REMARKS
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.
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		An NKU program designed for students who want to work on campus but who do not qualify for the federal employment program.
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.

Financial Support Options Specifically for Transfer Students

KCTCS Scholarships

To be considered for the 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:

1. 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).
2. Be academically eligible to return to the institution previously attended and have earned a minimum 2.0 cumulative GPA.
3. 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).
4. Enroll in a minimum of 12 semester credit hours.
5. 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. 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 nonresident). 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

To meet federal and state guidelines governing the administration of student financial aid funds, NKU has established the following minimum standards for "measurable satisfactory academic progress" that students must meet in order to be eligible for and to continue to receive federal or state aid. Reviews of students' records to determine satisfactory academic progress are made on both a quantitative basis (credit hours completed) and a qualitative basis (cumulative GPA). For the purpose of financial aid, a student with 0-15 quality hours is in good standing with a cumulative GPA that meets or exceeds 1.66, and a student with 16 or more quality hours is in good standing with a cumulative GPA that meets or exceeds 2.00.

Years of Eligibility for Student Financial Assistance

Years of Eligibility for Student Financial Assistance is an index establishing limits on the total length of time that a student may be enrolled in a degree program and receive consideration for financial assistance awards. Students who fail to meet the required number of hours listed below will be notified that they must appeal in order to use their financial aid.

Award Status	Minimum number of hours that an undergraduate must earn during the academic year
First-time freshman	16
Full-time student	18
Part-time student	9

Classes for which students receive grades of "AU" (audit), "F," 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.

Remedial courses are counted as hours attempted and earned but not factored into the GPA component of satisfactory academic progress. Therefore they are subject to the quantitative measures only of satisfactory academic progress.

ESL courses (English as a second language) are counted as hours attempted and earned as well as factored into the GPA component of the satisfactory academic progress. Therefore they are subject to both quantitative and qualitative measures of satisfactory academic progress.

Change of major, course repetitions, and students who work toward an additional degree are subject to both the qualitative and quantitative measures of satisfactory academic progress.

Transfer hours are counted as both hours attempted and hours earned. Bankrupted hours are counted as attempted hours.

Maximum Hours for Completing a Degree

Full-time undergraduate students are allowed to earn 180 hours (7.5 full-time academic years) toward completion of a bachelor's degree.

Appeals

A letter will notify students who do not maintain good academic standing when they apply for financial aid. Students can appeal their status to the Student Financial Aid Appeals Committee. The notification letter contains instructions concerning the appeals process. If the Student Financial Aid Appeals Committee denies the appeal, the student cannot receive any federal, state, or institutional financial aid.

How Withdrawing from Classes Affects Financial Aid

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 ($\$2,000 \times 50 \text{ percent} = \$1,000$) 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

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

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 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.

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://grantcounty.nku.edu/>

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. 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).

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

1. 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.
2. Students must be degree-seeking.
3. Course load policies stipulate that:
 - a. Students may enroll for no more than two courses at the host (non-NKU) institution in one semester.
 - b. The student's total load is governed by NKU's *Course Load Policy*.
 - c. Student enrollment between NKU and the consortium institution must be at least half-time (6 credits) with at least 3 credits at NKU.
4. The total number of consortium semester hours is limited to 12.
5. Students enrolling at a member institution in the summer must either:
 - a. Also be enrolled at NKU in the summer, or
 - b. Have been enrolled at NKU at least half-time during the preceding spring semester, in which case they are not required to be enrolled at NKU during the summer.
6. Tuition and fees:
 - a. Students who take courses through this program pay tuition to NKU following regular NKU tuition rates.
 - b. Students are required to pay course-related fees at the host institution.
7. Approval to take courses:
 - a. The vice provost must approve all requests to enroll in a course through GCCCCU or SOCHE. In addition:
 1. Courses for credit toward an academic major must be approved by the chair of the major department.
 2. Courses for credit toward an academic minor must be approved by the chair of the department housing the minor.

3. Courses for credit in the general education program must be approved by NKU's director of general education.
8. Course credits and grades will be posted on the transcript.
 - a. Credit hours earned under this program are considered as credits earned in residence at NKU.
 - b. If credits earned are in quarter hours rather than semester hours, they will be multiplied by two-thirds to convert them to semester credit hours; for example 3 quarter hours = 2 semester hours.
9. Students must observe all regulations of the host institution.

Course offerings and course schedules for a particular institution are available on the website of that institution. Forms for registering for this program are available in the Office of the Registrar. Additional information can be obtained by calling NKU's Office of the Registrar at 859-572-5556.

Member Institutions of GCCCU

Art Academy of Cincinnati
 Athenaeum of Ohio
 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 Raymond Walters College)
 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

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: David Emery

Administrative Specialist: Rita Thomas

Full-time faculty: Ali Godel, 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: honors ambassadors, student leaders who help with recruitment of prospective students, as well as other honors-related activities; peer mentors, students who serve as academic advisors for freshmen taking the required entry-level seminar, HNR 101; and the student advisory board, students who offer input to the honors program director on both curricular and co-curricular issues and activities.

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, Southern Regional Honors Council, 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 two writing sample prompts on the honors application form. (**Note:** This is not the same as the application to NKU, which includes essays. The honors application is a separate application that requires separate essays.) For incoming freshmen, outstanding academic credentials qualify a student to apply. These include at least one of the following: 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. Admission to honors is competitive, and prospective students, whether incoming freshmen or continuing students, may be asked to participate in additional application requirements such as a personal interview.

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 each semester.

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

ROTC

Location: Founders Hall 205 and 206

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. Peter Gray, Maj. Steven Harmon, Maj. Jonathan Kovach, Capt. Sarah Lunsford, Master Sgt. Ronald Gaines, Sgt. 1st Class Cory Johnson, Sgt. 1st Class Brad Sayles

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>).

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: neikirkm@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.

For students who want to get involved, the Scripps Howard Center will guide them 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

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 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
- Britain
- Canada
- England
- Ghana
- Hong Kong
- Ireland
- Scotland
- South Africa

CCSA also offers semester-long programs in England as well as internships in London, England; 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
- Morocco
- Spain
- Tanzania
- Turkey

Fall semester programs are available in Merida, Mexico, and Viborg, Denmark, 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
- The Universidad Nacional in Heredia, Costa Rica
- Aarhus School of Business in Aarhus, Denmark

- The University of San Francisco in Quito, Ecuador
- 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, Netherlands
- Cebu State College of Science and Technology in Cebu, 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, 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 the procedures listed in Code of Student Rights and Responsibilities, section 5.G

(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
13. 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.

stated grading policy as outlined in the course syllabus, discrimination in evaluating individual achievement, illegal discrimination or harassment – the student should

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

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:
- If the student's overall GPA has increased to at least 2.00, the student will be removed from academic warning.
 - 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

- The online registration guide and online academic calendar list the dates when a student may add a course after completing registration.
- 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.
- 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).

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

- A student may enroll to audit a course when the student does not desire to earn academic credit for the course.
- The same registration procedures are followed and the same tuition and fees are charged as for credit courses.
- 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.
- A grade of *T* is awarded for all audited courses, and no academic credit is awarded.
- Audited courses cannot apply to any degree or certificate programs.
- 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.
- Any change from audit to credit or credit to audit must be completed by the last day to register for a class.
- Refunds for withdrawals from audited courses are calculated according to NKU policy.

Catalog of Record

1. The institutional and program requirements – including requirements for the major, minor, concentration, general education, number of credits at the 300 level and above, etc. – stated in the catalog in effect when a student enters the university as a degree-seeking student are the requirements that a student must meet in order to graduate.
 - 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.
2. A student may elect instead to fulfill the requirements of a catalog issued at a later date. The student must then satisfy **ALL** institutional and program requirements for the desired degree under the catalog selected.
 - a. 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).
 - b. **EXCEPTION:** Transfer policies relative to GPA and course equivalencies will not change even if the student elects to follow a later catalog.
3. Except in unusual circumstances, the requirements of one catalog may be followed for no more than eight consecutive academic years from the time the student first enrolled. After eight consecutive academic years, the student will be required to follow the institutional and program requirements of 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.
4. Students should consult their academic advisors for questions regarding their catalog of record.
5. Appeals to this policy are handled by the academic dean of the college housing 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.

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) 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 Harassment

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.

Students are asked to report violations of this policy to appropriate authorities by calling the Office of the Dean of Students at 859-572-5147 or the University Police at 859-572-5500. They may also fill out an incident report form on the dean of students' website (<http://deanofstudents.nku.edu>).

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	Represents exceptionally high achievement
A-	3.667	
B+	3.333	
B	3.000	Represents high achievement
B-	2.667	
C+	2.333	
C	2.000	Represents average achievement; the minimum expected of a college student
C-	1.667	
D+	1.333	
D	1.000	Represents the minimum passing grade for courses graded A through F
F	0.000	Represents failure in a course; credit can be earned only by successfully repeating the course

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.

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 or the chair of the department 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/area, second major, or concentration requirement. Please see appropriate individual program requirements to determine if the program exempts the student from the minor/area, second major, or concentration requirement.
9. The requirements for a student's major(s), minor(s), and concentration 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, must be submitted by the following dates, or if a date falls on a weekend, by the Monday following the prescribed date.

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

- In order for a student to graduate with bachelor's degree honors, the student must earn a minimum of 60 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 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
- 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 earning a second bachelor's degree must complete a minimum of 60 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

- 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.
- 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.

- In order to receive two bachelor's degrees on the same date, a student must:
 - Complete requirements for both degrees.
 - 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* on each of the two bachelor's degrees; each of the 30 credits must apply to only one bachelor's degree, which means that overall the student must earn a minimum of 60 semester credits from NKU.

- A student wishing to earn a second bachelor's degree after receiving the first must:
 - Complete requirements for the second degree.
 - 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 beginning the semester after they complete 90 semester credit hours. It is recommended that students complete the assessment prior to completing 110 hours.
- 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://webapps.nku.edu/secureapps/seniorsurvey>).

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:

1. Have a **program certification form** on file.
 - a. The form is available online and must be signed by the department chair (or designee) of the student's major field of study.
 - b. The signed form should be submitted to the registrar's office (Lucas Administrative Center 301) after the student completes 30 semester hours and must be filed no later than the semester preceding the one in which the student plans to graduate.
 - c. The program certification form must be submitted prior to, or concurrently with, the application for degree candidacy, described below.
2. File an **application for undergraduate degree candidacy** in the registrar's office (Lucas Administrative Center 301). The form, available online through myNKU, must be submitted by the following dates, or if a date falls on a weekend, by the Monday following the prescribed date.

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 an associate degree must receive permission from the associate dean of their college. Even with that approval, there is no guarantee that the application can be processed in time for fall graduation.
 - b. For spring semester graduation:

Apply 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.
 - 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 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

1. 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.
2. There are two levels of associate degree honors:

With distinction	3.50 – 3.799
With high distinction.....	3.80 – 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 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* on each of the two associate degrees; each of the 20 credits must apply to only one associate degree, which means that overall the student must 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. 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.

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).

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.

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.

DISCIPLINE	ACCEPTABLE SCORE	COURSE	SEMESTER HOURS
Art, General	3, 4, 5	ART 100 Art Appreciation	3
Art, Drawing	4, 5	ART 131 Basic Drawing	3
Art History	4, 5	ARTH 101 Survey of Western Art I AND ARTH 102 Survey of Western Art II	3 3
Biological Sciences	3	BIO 120 Understanding the Living World	4
Biological Sciences	4, 5	BIO 150/150L Introduction to Biology I with laboratory OR BIO 120 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 AND MAT 229 Calculus II	4 5

DISCIPLINE	ACCEPTABLE SCORE	COURSE	SEMESTER HOURS
Chemistry	3	CHE 120/120L General Chemistry I with laboratory	4
Chemistry	4, 5	CHE 120/120L General Chemistry I with laboratory AND CHE 121/121L General Chemistry II with laboratory	4 4
Computer Science A or AB	3, 4, 5 3	INF 260/260L Object-Oriented Programming I with laboratory	3 1
Computer Science AB	4, 5	CSC 360 Object-Oriented Programming II	3
English Language/Composition	3, 4, 5	ENG 101 College Writing AND ENG 291 Advanced College Writing	3 3
English Literature/Composition	3, 4, 5	ENG 101 College Writing (It is recommended that students receiving credit for ENG 101 College Writing take ENG 151H Honors College Writing; ENG 291 Advanced College Writing may be substituted) AND ENG 200 Understanding Literature	3 3
European History	3, 4, 5	HIS 100 History of Europe to 1713 AND HIS 101 History of Europe, 1713 to the Present	3 3
French	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	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	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	
German	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	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	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 AND PSC 101 State and Local Politics	3 3
Government and Politics – Comp.	3, 4, 5	PSC 102 Comparative Politics	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 AND MUS 124 Aural Skills I	3 1
Physics B	3, 4, 5	PHY 110 Introduction to Physics with Laboratory	4
Physics C Mechanical	3 or 4 5	PHY 211 General Physics with Laboratory I PHY 220 University Physics with Laboratory I	5 4
Physics C Electricity/Magnetism	3, 4 5	PHY 213 General Physics with Laboratory II PHY 222 University Physics with Laboratory II	5 4

DISCIPLINE	ACCEPTABLE SCORE	COURSE	SEMESTER HOURS
Psychology	3	PSY 100 Introduction to Psychology	3
Spanish	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	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	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 OR STA 205 Introduction to Statistical Methods OR STA 113 Introduction to Probability and Statistics	3
U.S. History	3, 4, 5	HIS 102 History of U.S. through 1877 AND HIS 103 History of U.S. since 1877	3 3
World History	3, 4, 5	HIS 108 World History to 1500 AND 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.
- 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 Literature	50	ENG 208 Survey of American Literature I AND 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

EXAMINATION	MINIMUM SCORE	EQUIVALENT NKU COURSES	SEMESTER CREDITS
Biology (no lab credit awarded)	50	BIO 120 Understanding the Living World AND BIO 121 Diseases and the Systems They Affect	6
Chemistry (no lab credit awarded)	50	CHE 120 General Chem I AND CHE 121 General Chem II	6
English Literature	50	ENG 202 Survey of British Literature I AND ENG 203 Survey of British Literature II	6
Financial Accounting	50	ACC 200 Principles of Accounting I – Financial	3
French	50 - 59	Credits are awarded if student takes a 200-level FRE course and earns at least a B-	6
	60	Credits are awarded if student takes a 300-level FRE course and earns at least a B-	12
German	50 - 59	Credits are awarded if student takes a 200-level GER course and earns at least a B-	6
	60	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
Introductory Business Law	50	BUS 230 Legal Environment	3
Introductory Sociology	50	SOC 100 Introduction to Sociology	3
Introductory Psychology	50	PSY 100 Introduction to Psychology	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	50 - 56	Credits are awarded if student takes a 200-level SPI course and earns at least a B-	6
	57	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
Here's to Your Health	48/400	BIO 125 Biological Perspective of Wellness	3
Principles of Statistics	48/400	STA 205 Introduction to Statistical Methods	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)	4	BIO 120 Understanding the Living World	4
(Higher Level)	5	BIO150/150L Introduction to Biology I with Laboratory	4

DISCIPLINE	ACCEPTABLE SCORE	COURSE	SEMESTER CREDIT HOURS
Chemistry (Subsidiary Level)	5 or higher	CHE 102 Introduction to Chemistry AND one credit of chemistry lab	3 1
(Higher Level)	5 or higher	CHE 120 General Chemistry I AND CHE 121 General Chemistry II (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.)	3 3
Economics (Higher Level)	4 or higher	ECO 200 Principles of Macroeconomics AND ECO 201 Principles of Microeconomics	3 3
English (Higher Level)	4 or higher	ENG 101 College Writing AND 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 AND 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 AND 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 AND 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 OR 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 AND HIS 103 History of the United States since 1877	3 6
Mathematics (Higher Level)	4 or higher	MAT 129 Calculus I AND MAT 229 Calculus II	4 5
Physics (Subsidiary Level) (Higher Level)	4 5 or higher	PHY 211 General Physics with Laboratory I PHY 211 AND PHY 213 General Physics I and II with Laboratory OR 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 AND SPI 102 Elementary Spanish II	3 6

National Occupational Competency Testing Institute

Credit may be earned through standardized tests to assess competency in technical or trade areas of industrial education teachers. Contact the construction management department at 859-572-5761.

Prior Learning Assessment via Portfolio Development

Through the prior learning assessment program, students may receive credit for the learning that has occurred through their 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 or call the Office of Educational Outreach at (859) 392-2400.

Military and Department of Defense

Credit may be earned for courses successfully completed by an individual in residence at approved military and DOD schools. Courses approved and recommended by the Guide to Evaluation of Educational Experiences in the Armed Forces, a publication of the American Council of Education, will be considered for credit. A maximum of 32 semester credit hours may be earned. Students should submit appropriate

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 859-572-6430.

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

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

3. 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.
4. 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.

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 859-572-5761.

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 world languages and literatures department. Application forms are available in the Department of World Languages and Literatures, Landrum Academic Center 501.

Additional information regarding world language placement is available online (<http://worldlanglit.nku.edu>). 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 101-102 sequence out of order require the approval of the 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

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.
4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by NKU to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office
 U.S. Department of Education
 600 Independence Ave., SW
 Washington, DC 20202-4605

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

Probation and Suspension

Probation

1. If a student on academic warning fails to increase his or her overall GPA to at least 2.00, then the student will be placed on probation.
2. When a student is placed on academic probation:
 1. A registration hold is placed on the student's record, which prevents the student from registering for classes prior to meeting with an advisor.
 2. 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.
 3. 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.
 4. The student is expected to work closely with his or her advisor to identify and take advantage of the university's many services that support student success.
3. A student will be removed from academic probation status if he or she achieves an overall GPA of at least 2.00.
4. A student 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
 - a. 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—
 - b. Earns a fall or spring semester GPA of at least 2.25.

Suspension

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

First Suspension

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

Second Suspension

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

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.

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

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.

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 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.
10. 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.
11. 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/forms>) 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

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 selecting appropriate courses and programs of study.

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. Provide current curricular information on pre-college curriculum, general education, and major or minor course requirements.
3. Clarify university policies and procedures.
4. Help students learn effective decision-making skills for choosing majors.
5. Offer proactive academic counseling for students experiencing academic difficulties.
6. Assist in course selection and scheduling.
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 (IT) 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.

E-mail/Storage

Each student at NKU is provided an e-mail account that belongs to the student for life. All official communication from the university is directed to this e-mail address. IT will assist students in setting up mobile devices to access their e-mail. Also, connected to the e-mail 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 syllabi, 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. 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

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: 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, Dempsy 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, supplemental instruction, and developmental education.

Academic Tutoring

Academic tutoring provides FREE assistance and support for students who want or need to comprehend more fully or 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 assistance and support for students taking mathematics courses. Students should bring with them a question, problem, or assignment plus any other relevant materials. 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>).

Supplemental Instruction

Supplemental Instruction provides FREE collaborative peer review sessions for a few 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 many 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, COMPASS scores, and placement test results. More information on placement testing and developmental courses is available in

the placement testing section of Admissions and Enrollment and on the web (<http://lap.nku.edu/developmental>).

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 is a member of the SWON Library Consortium, a group of more than 40 libraries located in Southwest Ohio and Northern Kentucky, including the University of Cincinnati, Xavier University, and the Public Library of Cincinnati and Hamilton County. Students and faculty may use their NKU All Card to borrow materials from member libraries. A complete listing of members is available from the library's home page.

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/>

<http://sss.nku.edu/>

<http://earlyalert.nku.edu/>

<http://leap.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.

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.

Learning Experience and Parenting (LEAP)

The LEAP program helps student parents to successfully juggle school, work, and parenthood. With support from a LEAP coordinator, the student parents will have access to campus resources, assistance with student employment, and access to *Holiday Help*. Holiday Help is a program in which faculty, staff, and students from across campus sponsor holiday gifts for LEAP students and their families. This is usually done anonymously. Students can connect with LEAP by contacting the Student Achievement Center (859-572-7527) to schedule an appointment or be referred by a case manager.

Student Support Services

Student Support Services, funded by a federal grant from the U. S. Department of Education, serves students from moderate- to low-income families whose parents did not earn a bachelor's degree. The program provides free services to assist eligible students in their pursuit of a college degree at NKU. Students apply for the program at the Student Support Services website. Once a student is part of the program, an assigned support specialist will guide the student through his or her journey at NKU through advising, mentoring, and financial aid counseling among other services.

University Connect and Persist

Location: University Center 330

Telephone: 859-572-7702

E-mail Address: ucap@nku.edu

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

Director: Peg Adams

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 help them persist, succeed, and graduate from NKU.

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: Vacant

Other Key Personnel:

Coordinator of African American Student Affairs: Deborah Strahorn

Administrative Secretary: Gloria Golden

The Office of African American Student Affairs (AASA) is the primary source for: (1) designing, implementing, and coordinating strategies to support and retain African American students, faculty, staff, and alumni; (2) providing diversity programming, education, and resources to enhance campus-wide understanding of the needs and experiences of underrepresented populations; and (3) developing campus and external partnerships and initiatives to promote a more inclusive environment.

Services provided through the AASA are designed to support and enhance students' academic performance, social adjustment, professional development, and personal growth. The services also ease the transition from high school to college, and from college to postbaccalaureate educational and career opportunities. 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. The program begins with a 5-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.

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. The AASA 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 AASA advises and assists many student organizations including:

- Alpha Kappa Alpha Sorority, Inc.
- Alpha Phi Alpha Fraternity, Inc.
- Anointed Voices Gospel Choir
- Black Men's Organization

- Black United Students
- Black Women's Organization
- Equal-N-Versatile Individuals
- Kappa Alpha Psi Fraternity, Inc.
- National Association for the Advancement of Colored People (NAACP)
- National Pan-Hellenic Council
- Students Together Against Racism
- Writers Accessing Their Entertainment Righteously

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 have money credited 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, and Steely Library fines. More information is available at <http://busaux.nku.edu/allcard/faqs.php>.

Alumni Affairs

Location: 421 Johns Hill Road

Telephone: 859-572-5486

E-mail Address: 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.
- NKU baby bib 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 graduating NKU art 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), coordinator of creative writing, or Robert Wallace (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 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://pget.nku.edu/planetarium>) provides program information and a calendar of events.

Museum of Anthropology

Located in Landrum Academic Center 200, the museum's collections focus on: (1) the archaeology of Northern Kentucky and the middle Ohio Valley; (2) contemporary ethnological arts of Native Americans; and (3) contemporary ethnological and folk arts of world cultures, especially those of Latin America, Africa, and New Guinea. The museum offers displays, exhibitions, public lecture and film series, tours, 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).

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).

Athletics

Location: The Bank of Kentucky Center 133

Telephone: 859-572-5193

Fax: 859-572-6089

E-mail Address: athletics@nku.edu

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

Director: Scott Eaton

Other Key Personnel:

Assistant Athletic Director for Administration: Kathy Steffen

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

Associate Athletic Director for Internal Operations: Jerome Rodgers

Associate Athletic Director for External Operations: Kurt Moeller

Assistant Athletic Director for Marketing and Event Management: Chris Haffling

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

Sports Information 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 II and Great Lakes Valley 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 II and prepare for potential reclassification to NCAA Division I.

NKU sponsors intercollegiate competition in 13 varsity sports, 6 for men (baseball, basketball, cross country, golf, soccer, and tennis) and 7 for women (basketball, cross country, golf, soccer, softball, tennis, and volleyball). In addition, the department has a student athletic training program, co-ed cheerleading teams, a dance team, and a pep band, and it offers numerous student employment opportunities.

Athletics facilities include the newly completed NKU Soccer Stadium, 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 250 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

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

Director: Matthew W. Hackett

Other Key Personnel:

Assistant Director for Facilities: Jennifer Hilvert

Assistant Director for Programs: Jill Kleiser

Coordinator for Intramural Sports: Jeremy Chipman

Coordinator for Aquatics: Hayley North

Coordinator for Fitness: Angela Mireles

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 yogalates 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. The staff want everyone in the campus community to enjoy a healthy lifestyle. The 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

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

Director: Bill Froude

Assistant Director: Shirley Short

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 groups for on-campus interviewing, job fairs, and other events. 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

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

Dean: Jeffrey N. Waple

Other Key Personnel:

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 the 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, Student Organizations, Student Union, and University Housing.

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.

Dining Services

Location: Student Union 116

Telephone: 859-572-5212

Fax: 859-572-6478

E-mail Address: 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

Web Address: <http://disability.nku.edu>

Director: Lisa Besnoy

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

Web Address: <http://earlychildhood.nku.edu/>

Director: Melanie Caldwell

Office Manager: Julie Christmann

Throughout the calendar year, the Early Childhood Center provides high-quality childcare and preschool education for children ages 2 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 7:00 a.m. to 5:30 p.m. Each semester, the Early Childhood Center employs several NKU students who are 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

Web Address: <http://hcp.nku.edu/>

Director: Barbara J. Sween

Other Key Personnel:

Associate Director of Counseling Services: Lisa A. Barresi
 Associate Director of Health Services: Amy Fathman
 Counselors: Karen L. Bolte and Timothy Barron
 Campus Nurses: Michele Kay and Betsy Hausfeld
 Administrative Secretary: Robin Bading

Health, counseling, and prevention services' staff provide 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. Limited medications and free testing for hearing, vision, diabetes, blood pressure, and pregnancy are available. Bimonthly reproductive health clinics provide free Pap exams, STI and HIV testing, and birth control options to students. Mental health professionals provide assessment, diagnosis, and treatment for a variety of crisis, adjustment, relationship, and general mental health issues. Individual, group, and couples treatment options are available. Health, counseling, and prevention services' staff are also available for educational programming addressing mental and physical health needs of students. Faculty and staff are encouraged to consult with the staff regarding specific student needs. Information on purchasing student health insurance may be obtained through the Office of Health, Counseling, and Prevention Services.

Health Insurance

Telephone: 859-572-5650

Web Address: <http://hcp.nku.edu>

Buying health insurance is not required, but it is recommended for those who are not already covered on their own or a family member's policy. Information about student health insurance

is available through the Office of Health, Counseling, and Prevention Services. Students can obtain more information by calling 859-572-5650 or visiting the web.

Housing

Location: Norse Commons 101

Telephone: 859-572-5676

Fax: 859-572-6099

E-mail Address: housing@nku.edu

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

Director: (Vacant)

Other Key Personnel:

Associate Director for Residential Life: Ann James
 Associate Director for Operations: Arnie Slaughter

University housing provides students with an affordable, safe, and supportive environment that promotes student success. The university provides a variety of living options including apartments, traditional residence halls, and suites. Other amenities include computer labs, recreation and laundry facilities, and study space. One fee covers all housing costs including high-speed Internet access and expanded cable. Flexible meal plans and dining options are available to meet everyone's needs. Financial aid and scholarships can often be applied to housing and dining fees. To be eligible for student housing, a student must be admitted and enrolled at NKU.

Latino Student Affairs

Location: Student Union 309

Telephone: 859-572-6013

Fax: 859-572-1576

E-mail Address: Latinostudentaffairs@nku.edu

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

Director: Leo Calderon

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 Alert

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

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). 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

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 their designated 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.

All parking citations must be paid before a permit can be ordered. Lost or stolen parking permits should be reported immediately to parking services. A replacement permit may be obtained for a fee.

Police Department

Office: Department of Public Safety

Location: 419 Johns Hill Road

Telephone: 859-572-5500

Fax: 859-572-6991

E-mail Address: willisj2@nku.edu

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

Police Chief: Jason G. Willis

Other Key Personnel:

Assistant Chief: Lt. Col. Bobby Wince

Captain: Jeff Eldridge

Sergeant: Matthew Bunning

Sergeant: John Gaffin

Sergeant: Will Love

Sergeant: Rob Yelton

Records Manager: Kristy Webb

The NKU Department of Public Safety 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.

The Department of Public Safety 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: Michele Hall

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, 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; and declare academic renewal.

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 administration, and secretary of student involvement; the legislative branch includes the student senate composed of 30 senators; and the judicial branch is composed of five judicial council members. The SGA president is a member of the university's Board of Regents, 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>

<http://www.orgsync.com>

Director: Betty Mulkey

Other Key Personnel:

Assistant Director for Greek Life: Kimberly Vance

Assistant Director for Leadership: Tiffany Mayse

Program Coordinator for Activities Programming Board:

Joshua Gruenke

Student Organization Specialist: 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 get the exciting opportunity to decide what programs are brought to campus and then work 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 Panhellenic Council Sororities

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

Homecoming

Homecoming comes once a year, and it takes great students and faculty to put it all together. It is the first week of February, coinciding with an NKU basketball game. There are multiple events throughout that week including Relay for Life, Talent Show, Canstruction, 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

The Norse Leadership Society coordinates some of NKU's most-loved student programs including the fall retreat.

Freshman Service Leadership Committee

The Freshman Service Leadership Committee is a group just for freshmen who want to start their leadership experience on campus early in their freshman year.

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

NKU sponsors about 200 student organizations and more are being added all the time. 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 to join.

Student Media

Location: Founders Hall 314, 304, 301

Telephone: 859-572-5812

Fax: 859-572-5772

E-mail Address: studentmedia@nku.edu

Web Addresses:

www.nku.edu/campuslife/media.php

www.thenortherner.com

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: Terri Bridewell

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: Lisa Besnoy

Other Key Personnel:

Assistant Director: Amy Danzo

Testing and Technology Coordinator: Emily Ping

Secretary: Laura Dektas

Testing Services provides standardized and proctored examinations in a convenient and secure testing environment for the NKU community and region. Admissions tests include the National ACT, Residual ACT, and COMPASS. Other tests administered through Testing Services are CLEP (College Level Examination Program), PRAXIS (Professional Assessments for Beginning Teachers), the Kentucky Principals Test, and distance learning examinations. National certification and licensing exams are also available through Testing Services.

Admitted freshmen 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 a placement test is available online.

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: Terri Bridewell

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 participates in the Yellow Ribbon Program and was named a Veteran-Friendly Campus in 2010 by *GI Jobs* magazine. All degree programs at NKU are approved for students using the G.I. Bill. Students who wish to use their veteran or veteran dependent benefits should contact the veterans' services coordinator at 859-572-7609.

Wellness Center

Location: Founders Hall 111

Telephone: 859-572-6668

Fax: 859-572-1548

E-mail: goughm1@nku.edu

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

Student Wellness Manager: Maggie Gough

Other Key Personnel:

Director: Karen Campbell

Assistant Director: Allyson Wallbridge

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 student wellness manager 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
TOTAL HOURS	18-19

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
TOTAL HOURS	37

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.

- 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.
- Global viewpoint courses can be explored from both the perspective of the arts/humanities and the social/behavioral sciences.
- Students cannot use a single course to satisfy the requirements of two categories.
- 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.
- 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.
- Some majors require specific general education courses. Students should consult the catalog or contact an advisor for more information.
- 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.

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. Courses that meet policy requirements are identified by each institution as core, category, or fully certified.

Core Certification

A student transferring from a Kentucky institution will be accepted at NKU as "Core Component Certified" when he or she completes the 33-semester-hour core transfer 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 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
Humanities – 6 credit hours	Culture and Creativity – 6 credit hours
Mathematics – 3 credit hours	Mathematics – 3 credit hours
Natural Sciences – 6 credit hours	Natural Sciences – 6 credit hours
Behavioral and Social Sciences – 9 credit hours	Self and Society – 9 credit hours

Category Certification: A student transferring from a Kentucky institution will be accepted at NKU as "Category Certified" when he or she has completed one or more of the five categories in the core transfer component. The student must hold a cumulative GPA of 2.0 or higher and will need to fulfill the remaining general education requirements. The student's transcript must indicate each category that the student has completed and be marked as "category certified."

Fully General Education Certified: A student transferring from a Kentucky public institution will be accepted at NKU as "Fully General Education Certified" when he or she has completed a general education program at another institution or combination of institutions. The transcript from the sending institution must indicate that the student is "Fully General Education Certified" to guarantee all credits will be accepted at NKU to satisfy general education requirements. Students must have a cumulative GPA of 2.0 or higher to qualify for the Kentucky Transfer Policy.

COLLEGE OF ARTS AND SCIENCES

Location: Steely Library 410

Telephone: 859-572-5495

Fax: 859-572-6185

Email Address: DeanAandS@nku.edu

Web Address: <http://artscience.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 to the Dean: Stefanie Harrison

Academic Specialist: Cynthia Gump

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 Mail to: donathanm2@nku.edu

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

Key Personnel:

Assistant Dean and Director: Janis M. Cassiere

Academic Advisor: Melody McMillan

Lecturers/Advising Specialists: Amy Racke, Jennifer H. Webster

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, general education, 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 advise all undergraduate students majoring in integrative studies and 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 415

Telephone: 859-572-6186

Email Address: tenkottep@nku.edu

Web Address: <http://publichistory.nku.edu>

Director: Paul Tenkotte

Assistant Directors: Rebecca Bailey, 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. In the center, students can learn about internship opportunities with community partners and work on projects alongside engaged faculty and public history graduate students. This work provides students with an exciting glimpse into the "real" work world of museums and cultural heritage organizations such as local historical societies, archives, and libraries. Students who work on public history-sponsored projects are acknowledged contributors and are encouraged to include project products in their employment portfolios.

Department of Biological Sciences

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, Hazel A. Barton, Bethany V. Bowling, Richard L. Boyce, Christine Curran, Gregory Dahlem, Debby S. Dempsey, Richard D. Durtsche, Jon M. Hastings, Kristi H. 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-medical, pre-dental, 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 ≥ 22 and other ACT categories > 18 or successful completion of appropriate developmental courses. Transfer students must also meet these requirements before declaring a biology major.

Special graduation requirements: Prior to graduation, all students majoring in biology are required to pass a comprehensive exam. This examination is designed to verify that the graduating student has at least a basic knowledge of the broad area of the biological sciences. Students will complete this requirement by registering for "BIO 491: Comprehensive Examination" during the senior year. Those who fail the exam will not be allowed to graduate until the exam is passed.

Biological Sciences Course Groups:

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 304	Ecology
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

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
Credits in Biological Sciences		19
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*		
*Prerequisite: MAT 119 Pre-Calculus Mathematics or Math ACT >25		
OR		
PHY 220 and 222 University Physics I and II with Laboratory*		
*Prerequisite: MAT 129 Calculus I or MAT 227 Calculus B		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
Credits in Other Disciplines		25-27
Additional Prerequisite Credits		0-7
TOTAL CORE CREDITS		44-53

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
TOTAL TRACK CREDITS		24-28
Total Core Credits		44-53
TOTAL CREDITS		68-81
*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 OR Another advanced CHE, GLY, PHY, or GEO course	3-4
MAT 112	Applied Calculus OR	3-4
MAT 129	Calculus I	
TOTAL TRACK CREDITS		27-32
Total Core Credits		44-53
TOTAL CREDITS		71-85

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 OR	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 OR	
MAT 129	Calculus I	3-4
TOTAL TRACK CREDITS		34-38
Total Core Credits		44-53
TOTAL CREDITS		78-91

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 OR another advanced CHE, GLY, PHY, or GEO course	3-4
MAT 112	Applied Calculus OR	3-4
MAT 129	Calculus I	
TOTAL TRACK CREDITS		29-35
Total Core Credits		44-53
TOTAL CREDITS		73-88

B.S. Forensic Science Track*		Credits
BIO 342	Biometry	3
BIO 302/302L	General Microbiology with Laboratory	4
BIO 320/320L	Entomology with Laboratory	4
BIO 400/400L	Advanced Molecular Biology with Laboratory	4
BIO 455	Scanning Electron Microscopy OR	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
TOTAL TRACK CREDITS		44-45
Total Core Credits		44-53
TOTAL CREDITS		88-98
*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.		

B.A. Biology Teacher Education Track*		Credits
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
TOTAL TRACK CREDITS		18-20
Total Core Credits		44-53
TOTAL CREDITS		62-73
*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.		

Pre-Professional Programs

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*	3
<i>*Prerequisite: C- or better in MAT 109 or placement**</i>		
OR		
Higher-level mathematics course		
12 additional hours of BIO courses with at least 9 at the 300 level or above***		12
Program Credits		31
Additional Prerequisite Credits		0-3
TOTAL CREDITS		31-34

**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

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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: While there are no specific requirements for declaration of a chemistry major, there are requirements for registering for the first course in all chemistry major options, "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 C- 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 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

Core Courses cont		Credits
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	
TOTAL CORE CREDITS		52-54

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).

ACS Certified Track		Credits
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)	
TOTAL TRACK CREDITS		15
Total Core Credits		52-54
TOTAL CREDITS		67-69

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.).

Biochemistry Track		Credits	
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)		
TOTAL TRACK CREDITS			24-26
Total Core Credits			52-54
TOTAL CREDITS			76-80

*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.

Forensics Track		Credits
CHE 482L	Biochemistry I Laboratory	1
BIO 150/150L	Introduction to Biology I with Laboratory	4
BIO 151/151L	Introduction to Biology II with Laboratory	4
BIO 349/349L	Genetics with Laboratory	4
BIO 400/400L	Advanced Molecular Biology with Laboratory	4
STA 205	Introduction to Statistical Methods	3
JUS 101	Introduction to Criminal Justice	3
JUS 204	Criminal Investigation	3
Select at least one course from the following:		
BIO 455	Scanning Electron Microscopy (3)	3-4
CHE 350/350L	Instrumental Analysis with Laboratory (4)	
TOTAL TRACK CREDITS		29-30
Total Core Credits		52-54
TOTAL CREDITS		81-84

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

Degree Requirements: B.A. - Chemistry		Credits
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 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	
TOTAL CREDITS		52-54

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

Location: Landrum Academic Center 500

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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:

Bachelor of Arts

English

English with secondary teaching certification

Minors:

English

Creative Writing

Professional Writing

English for Business Students

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; Writing Instruction Program Awards; and Collier CCSA London Winter Scholarship. 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) *NKU Expressed* is Northern Kentucky University's student literary magazine. *NKU Expressed* 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. In addition, 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 a fourth semester 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 from the following three categories:		
ENG 202 and ENG 203 Survey of British Literature I and II		
ENG 208 and ENG 209 American Literature Survey I and II		
OR		
ENG 217 and ENG 218 African-American Literature to 1940 and 1940-Present		
ENG 204 (Introduction to Writing Studies) together with either ENG 231 (Introduction to Creative Writing)		
OR		
ENG 205	(Contemporary Issues in Writing Studies)	12
200-level elective in English		3
TOTAL CORE CREDITS		18

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
TOTAL OPTION CREDITS		24
Total Core Credits		18
TOTAL CREDITS		42

*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	
Writing Studies Courses*		18
300/400/500-level electives in English		6
TOTAL OPTION CREDITS		24
Total Core Credits		18
TOTAL CREDITS		42

*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	
Post-1900 course	3	
Creative writing courses in at least two genres*		15
300/400/500-level electives in English		6
TOTAL OPTION CREDITS		24
Total Core Credits		18
TOTAL CREDITS		42

*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 Survey of British Literature I and II ENG 203	6
ENG 308 Shakespeare I OR	
ENG 309 Shakespeare II	3
ENG 381 Introduction to Linguistics OR	
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
TOTAL CREDITS	45

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
TOTAL CREDITS	21

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	
ENG 347 Technical Writing	
ENG 358 Writing in Creative Genres	
ENG 331 Persuasive Writing	
ENG 431 Screenwriting	
ENG 432 Novel Writing	12
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.	
TOTAL CREDITS	21

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 OR	3
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 OR	3
JOU 321 Publication Skills	
Select 9 credits from the following:	
ENG 204 Introduction to Writing Studies	
ENG 205 Contemporary Issues in Writing Studies	
ENG 340 Business Writing OR	
ENG 347 Technical Writing (whichever not taken to fulfill the above requirement)	9
ENG 371 Traditional Grammar	
ENG 231 Introduction to Creative Writing	
ENG 345 Legal Writing	
ENG 359 Writing in Workplace Genres	
ENG 331 Persuasive Writing	
ENG 431 Screenwriting	
ENG 497 Projects: Writing	
TOTAL CREDITS	21

Minor in English for Business Students

Requirements for Minor: English for Business Students	Credits
One 200-level literature course	3
ENG 340 Business Writing	3
ENG 497 Projects: Writing	3
Either four literature courses (300-400 level) OR	12
Two literature courses (300 level and above) and two foreign language courses	
TOTAL CREDITS	21

Department of History and Geography

Location: Landrum Academic Center 415

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Department Chair: Paul Tenkotte

Other Key Personnel:

Director of Graduate Studies: Debra Meyers

Academic Advisor: Joe Moffett

Coordinator of Geography: John Metz

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 Medicott, 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 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 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 in history (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 and	6
HIS 101	History of Europe, 1713 to the Present* OR	
HIS 108	World History to 1500 and	6
HIS 109	World History since 1500*	
HIS 102	History of the United States through 1877 and	6
HIS 103	History of the United States since 1877* OR	
HIS 106	History of African Americans to 1877 and	
HIS 107	History of African Americans since 1877*	
HIS 385	Art and Method of History	3
United States history at the 300 level or above**		3
European history at the 300 level or above**		3
Non-western history at the 300 level or above**		3
Race/gender history at the 300 level or above**		6
History electives at the 300 level or above**		9
Geography elective at the 300 level or above**		3
TOTAL CREDITS		42

*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
TOTAL CREDITS	37

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 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 OR	
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
Credits in History and Geography		30
Courses in Other Disciplines		
ANT 100	Cultural Anthropology OR	3
ANT 201	World Cultures	
ECO 205	Economics for Teachers	3
PSC 100	American Politics	3
PSC 102	Comparative Politics OR	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
Credits in Other Disciplines		27
TOTAL CREDITS		57

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 and History of Europe, 1713 to the Present	
HIS 108 HIS 109	World History to 1500 and World History since 1500	6
HIS 102 HIS 103	History of the United States through 1877 and History of the United States since 1877	
HIS 106 HIS 107	History of African Americans to 1877 and History of African Americans since 1877	
History electives (200 level or above)		15
TOTAL CREDITS		21

Minor in Geography

Requirements for Minor: Geography		Credits
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
TOTAL CREDITS		21

Minor in Military History

A minor in military history offers a diverse range of courses to students who are interested in war and peace. It consists of 21 semester hours.

Requirements for Minor: Military History		Credits
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	
TOTAL CREDITS		21

Department of Mathematics and Statistics

Location: Mathematics Education Psychology Center 401

Telephone: 859-572-5377

Fax: 859-572-6097

Email Address: math@nku.edu

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

Department Chair: 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, John Rankin, Patricia Sisson, Michael Waters, Steven Wilkinson, Jacqueline Wroughton

Undergraduate Programs:

Majors:

Bachelor of Science

Mathematics

Teacher Certification

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 the 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 and	
MAT 229	Calculus II	
	OR	
MAT 128	Calculus A,	
MAT 227	Calculus B and	
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	
	OR	3
	An approved capstone experience	
Core Credits in Mathematics and Statistics		23
Core Courses in Other Disciplines		
CSC 270	Mathematics Software Programming	
	OR	3
INF 260	Object-Oriented Programming I	
Core Credits in Other Disciplines		3
TOTAL CORE CREDITS		26

Pure Mathematics Track		Credits
MAT 302	Introduction to Higher Mathematics	3
MAT 310	Elementary Theory of Numbers	
	OR	3
MAT 410	Abstract Algebra I	
MAT 420	Real Variables I	
	OR	3
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
TOTAL TRACK CREDITS		18
Total Core Credits		26
TOTAL CREDITS		44

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

General Mathematics Track		Credits
MAT 302	Introduction to Higher Mathematics	3
MAT 345	Introduction to Geometry	3
MAT 310	Elementary Theory of Numbers	
	OR	3
MAT 410	Abstract Algebra I	
STA 341	Statistics II	3
Select one set from the following options:		
MAT 310	Elementary Theory of Numbers and	
MAT 410	Abstract Algebra I and an additional 300-level or above MAT/STA course	
	OR	
MAT 325	Differential Equations and	
MAT 330	Classical Applied Analysis	
	OR	
STA 340	Probability II and	
STA 341	Statistics II and an additional 300-level or above MAT/STA course	
	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
TOTAL TRACK CREDITS		18
Total Core Credits		26
TOTAL CREDITS		44

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.

Degree Requirements for Certification in Grades 5-9*#		Credits
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	
INF 110	Business Programming	3
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	
MAT 112	Applied Calculus	
MAT 114	Finite Mathematics	
MAT 115	Mathematics for Liberal Arts	
MAT 119	Pre-Calculus Mathematics	3-4
MAT 128	Calculus A	

OR	
MAT 129	Calculus
MAT 185	Introductory Discrete Mathematics
MAT 227	Calculus B
TOTAL CREDITS	
21-22	

*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 **AND** "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 with 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 OR	9
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
TOTAL CORE CREDITS	
22	

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 OR	3
Select 3 additional semester hours of MAT/STA courses at the 300 level or above	
TOTAL TRACK CREDITS	
18	
Total Core Credits	
22	
TOTAL CREDITS	
40	

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

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
TOTAL TRACK CREDITS	
19	
Total Core Credits	
22	
TOTAL CREDITS	
41	

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

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, Sergei Polusmiak, Francisc Restesan, Raquel Rodriquez, Kurt Sander, Vance Wolverton

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 th and 20 th 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
TOTAL CORE CREDITS		49

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

Jazz Studies Emphasis		Credits
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	6
OR		
MUS 317	Jazz Ensemble	6
MUS 310	Chamber Music Ensembles	
MUS 321	Jazz Arranging 1	2
MUS 322	Jazz Arranging II	2
MUS 339	History of Jazz	3
MUS 424	Jazz Pedagogy	2
MUS 426	Jazz Styles and Analysis	3
Electives in music		6
TOTAL EMPHASIS CREDITS		38
Total Core Credits		49
TOTAL CREDITS		87

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

Keyboard Emphasis		Credits
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
TOTAL TRACK CREDITS		25
Total Core Credits		49
TOTAL CREDITS		74

Piano Accompanying Emphasis		Credits
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
TOTAL EMPHASIS CREDITS		33
Total Core Credits		49
TOTAL CREDITS		82

Piano Pedagogy Emphasis		Credits
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
TOTAL EMPHASIS CREDITS		30
Total Core Credits		49
TOTAL CREDITS		79

Vocal Emphasis		Credits
Two years of foreign language selected in consultation with an applied voice teacher		12
MUS 301	The Northern Chorale OR	6
MUS 302	Chamber Choir	
MUS 304	Opera Workshop OR	3
MUS 310	Chamber Music Ensembles	
MUS 354	Lyric Diction I	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
TOTAL TRACK CREDITS		42
Total Core Credits		49
TOTAL CREDITS		91

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

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 19 th Century	3
MUS 337	History of Music III: Mid 19 th and 20 th 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
Core Credits In Music		55
Core Courses In Other Disciplines		
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
Core Credits in Other Disciplines		24
TOTAL CORE CREDITS		79

Choral/Vocal Track		Credits
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
TOTAL TRACK CREDITS		20
Total Core Credits		79
TOTAL CREDITS		99

Instrumental Track		Credits
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
TOTAL TRACK CREDITS		24
Total Core Credits		79
TOTAL CREDITS		93

Piano/Choral Track		Credits
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
TOTAL TRACK CREDITS		28
Total Core Credits		79
TOTAL CREDITS		108

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

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 th Century	3
MUS 337	History of Music III: Mid 19 th and 20 th 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
TOTAL CREDITS		82

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 th Century	3

MUS 337	History of Music III: Mid 19 th and 20 th 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
TOTAL CREDITS		57

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 th Century	
MUS 337	History of Music III: Mid 19 th and 20 th Centuries	
Applied music		2
Ensembles		2
Electives in music		8
TOTAL CREDITS		26

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
TOTAL CREDITS		34

Department of Physics and Geology

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Fax: 859-572-6092

Email Addresses:

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geology@nku.edu

engineeringtechnology@nku.edu

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Web Address: <http://pget.nku.edu>

Department Chair: John Filaseta

Other Key Personnel:

Director of Geology: John Rockaway

Director of Pre-Engineering: C. Dale Elifrits

Coordinator of Engineering Technology: Morteza Sadat-Hossieny

Academic Advisor: Nikki Gamm

Department Coordinator: Linda Gee

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, C. Dale Elifrits, 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)

Pre-engineering and **engineering technology 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 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 435	Sedimentary Petrology and Petrography	4
GLY 450	Hydrogeology	4

Select two GLY electives at the 100 or 200 level:		
GLY 120	This Dangerous Earth	6
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	9-10
GLY 402	Invertebrate Paleontology with Laboratory	
GLY 416	Geologic Field Methods	
GLY 440	Applied Geophysics	
GLY 455	Groundwater Resources and Management with Laboratory	
GLY 496	Externship: Geology	
Credits in Geology		
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
Credits in other Disciplines		24
TOTAL CREDITS		74-75

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 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." A minimum of 3 additional semester hours of physics or astronomy courses numbered above 300 must be included.

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
9 credits of PHY courses at the 300 level or above		9
Credits in Physics		42
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
Credits in Other Disciplines		24
TOTAL CREDITS		66

*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"

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

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
One PHY course at the 300 level or above		9
Credits in Physics		33
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
Credits in Other Disciplines		24
TOTAL CREDITS		57

*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." A minimum of 3 additional 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.

Pre-Engineering and Engineering Technology

Pre-Engineering

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Other Key Personnel:

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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

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 120/120L	General Chemistry I with Laboratory	4
ENG 101	College Writing	3
ENG 291	Advanced 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		66

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 120/120L	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

ENG 101	College Writing	3
ENG 291	Advanced College Writing	3
CMST 101	Principles of Speech Communication	3
EGT 212	Computer Aided Drafting	3
	General education electives	6
Total Recommended Minimum for Transfer to a B.S. Engineering Degree Program		66

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.

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 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 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.

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. Engineering technology courses are taught late in the day to accommodate the schedule of working students. 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.

Due to TAC-ABET requirements for engineering technology majors, students have to take at least one general education course with emphasis in ethics and one course with emphasis in race and gender or global perspectives.

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
21 elective credits		21
Core Credits in Electronics Engineering Technology		69
Core Courses in Other Disciplines		
CHE 120/120L	General Chemistry I with Laboratory	4
INF 120	Elementary Programming	3
MAT 119	Pre-Calculus Mathematics	3
MAT 128	Calculus A and MAT 227 Calculus B OR	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
Core Credits in Other Disciplines		27 or 29
TOTAL CORE CREDITS		96 or 98

Select any subspecialty and additional courses totaling at least 21 credit hours.

Systems and Design Track		Credits
EGT 320	Robotic Systems and Material Handling	3
EGT 408	Mechatronics Topics	3
EGT 412	Advanced CADD	3
EGT 462	Finite Element Modeling	3
TOTAL TRACK CREDITS		12
Total Core Credits		96 or 98
TOTAL CREDITS		108 or 110

Fundamental of Engineering Track		Credits
EGT 318	Introduction to Nanotechnology	3
EGT 340	Applied Dynamics	3
EGT 361	Fluid Power	3
EGT 450	Thermodynamics and Heat Transfer	3
TOTAL TRACK CREDITS		12
Total Core Credits		96 or 98
TOTAL CREDITS		108 or 110

Quality Track		Credits
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
TOTAL TRACK CREDITS		12
Total Core Credits		96 or 98
TOTAL CREDITS		108 or 110

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.

Due to TAC-ABET requirements for engineering technology majors, students have to take at least one general education course with emphasis in ethics and one course with emphasis in race and gender or global perspectives.

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

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

Core Courses In MMET		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 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	6
EGT 280	Introduction to Microtechnology	
EGT 386	Electro-Mechanical Instrumentation and Control	
EGT 405	Metrology and Geometric Tolerancing	
EGT 411	Quality Assurance and Auditing	
Core Credits in MMET		63

Core Courses in Other Disciplines		
CHE 120/120L	General Chemistry I with Laboratory	4
INF 120	Elementary Programming	3
INF 110	Business Programming	
MAT 119	Pre-Calculus Mathematics	3
MAT 128	Calculus A and MAT 227 Calculus 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
Core Credits in Other Disciplines		27 or 29
TOTAL CORE CREDITS		90 or 92

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

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

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
TOTAL CREDITS			21

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
TOTAL CREDITS			21

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
TOTAL CREDITS			21

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 team 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
TOTAL CREDITS		21

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
TOTAL CREDITS		21

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, and 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
TOTAL CREDITS		21

Department of Political Science and Criminal Justice

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Other Key Personnel:

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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, Alison Antes, Michael Baranowski, Michael Bush, Kent Curtis, Megan Downing, Tom Edwards, Clinton Hewan, Cheryl Jonson, Julie Kunselman, Edward Kwon, Thomas Lambert, Gary Mattson, Bruce McClure, Danielle McDonald, Jonathan McKenzie, Alexis Miller, Whitney McIntyre Miller, Melissa Moon, Julie Olberding, Aprile Redden, Shauna Reilly, 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 Administration

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, 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.

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 or Bachelor of Science 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.

The program offers a choice of a Bachelor of Arts or a Bachelor of Science in Political Science. The former consists

of 48 semester hours, and the latter consists of 51 semester hours.

There are 15 hours of required classes for the Bachelor of Arts degree and 18 hours of required courses for the Bachelor of Science degree. In addition, students are required to complete 33 hours from the six content areas, with a minimum of one course from each of the areas listed below. In addition to the requirements for the Bachelor of Arts, the Bachelor of Science requires "PSC 316: Data Analysis," with a prerequisite of "STA 205: Introduction to Statistical Methods" and "PSC 315: Scope and Methods" or consent of the instructor.

Degree Requirements: B.A. and B.S. – Political Science

Courses	Credits
PSC 100 American Politics OR	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 (PSC 315 must be taken within the first 96 hours)	3
PSC 316 Data Analysis (for Bachelor of Science degree only)	3
Select 24 credits from the areas listed below. A minimum of one course is to be chosen from each area. A minimum of 6 credits must be in writing-intensive courses, which are designated in the course schedule by a "W" following the course number. For example, the writing intensive section of PSC 308 would be PSC 308W.	

American Government

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)

Comparative Politics

PSC 330	Politics of Europe (3 credits)
PSC 335	Politics of Latin America (3 credits)
PSC 355	Comparative Revolutionary Politics (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 Policies (3 credits)
PSC 496	Internship and Practicum in Political Science (1-15 credits)
PSC 499	Readings and Practicum for Seniors (1-3 credits)

International Politics

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)

Political Theory

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 316	Data Analysis (3 credits)
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 494	Topics: Public Administration (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 309	Law of Mass Communication (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 or Bachelor of Science 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.
- Students working toward the Bachelor of Science may not use "PSC 316: Data Analysis" to satisfy the political theory/practice area.
- 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.

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	
JUS 205	Criminal Evidence	
JUS 210	Legal Research	
JUS 215	Private Sector Security	
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	27
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	
TOTAL CREDITS		54

Bachelor of Arts in Organizational Leadership

The organizational leadership major focuses on human relations, communication, and leading in the professional environment. With its emphasis on human behavior and interpersonal relationships, the organizational leadership major is broadly applicable for students with professional career paths in supervision and leadership in organizations. Partnering organizational leadership requirements with a secondary area of study (minor or area of concentration) aligned with educational and career objectives equips students to lead in their area of interest.

Degree completion in organizational leadership is available in the following program delivery modes: (1) traditional face-to-face classes; (2) the PACE program, an accelerated face-to-face evening program for adult learners; and (3) completely online. Online learning offers a flexible alternative

and PACE (Program for Adult Centered Education) 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. These include: accounting, business administration, business informatics, entrepreneurial studies, finance, management, and marketing. 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

Courses in Leadership		Credits
LDR 300	Foundations of Leadership	3
LDR 305	Human Relations in Organizations	3
LDR 308	Leadership in Organizations	3
LDR 310	Research Methods in Leadership	3
LDR 381	Organizational Ethics	3
LDR 382	Organizational Change	3
LDR 394	Special Topics in Leadership (repeatable for up to 12 hours if topics differ)	3
LDR 395	Teamwork in Organizations	3
LDR 480	Organizational Leadership Capstone	3
Credits in Political Science and Criminal Justice		27
Courses In Other Disciplines		
PSY 340	Social Psychology*	3
<i>*Prerequisite: PSY 100 Introduction to Psychology</i>		
PSY 344	Industrial/Organizational Psychology*	3
<i>*Prerequisite: PSY 100 Introduction to Psychology</i>		
Credits in Other Disciplines		6
Additional Prerequisite Credits		3
TOTAL CREDITS		36

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
TOTAL CREDITS		21

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
TOTAL CREDITS		21

Minor in Organizational Leadership

Requirements for Minor: Organizational Leadership		Credits
LDR 117	Introduction to Supervision	3
LDR 300	Foundations of Leadership	3
LDR 305	Human Relations in Organizations	3
LDR 308	Leadership in Organizations	3
LDR 395	Teamwork in Organizations	3
TOTAL CREDITS		15

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
TOTAL CREDITS		21

Minor in Public Administration

Requirements for Minor: Public Administration		Credits
PAD 300	Introduction to Public Administration	3
PAD 401	Human Resource Management	3
PAD 411	Public Budgeting and Finance	3
Select two courses from the following:		
PAD 403	Public Policy Analysis	
PAD 412	Administrative Law	
PAD 420	Managing the Not-for-Profit Organization	
PAD 455	Urban Administration	6
PAD 460	Planning and Community Development	
PAD 494	Topics: Public Administration	
PAD 496	Internship in Public Administration	
TOTAL CREDITS		15

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	
	OR	
PSC 101	State and Local Politics	3
	Four courses from criminal justice electives	12
Credits in Political Science and Criminal Justice		30
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 Category	3
	General education course: Natural Sciences Category	3
	General education course: Culture and Creativity Category	3
Credits in other disciplines		24
	Free electives: 10 to 12 credit hours	10-12
TOTAL CREDITS		64-66

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).

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

Certificate in Organizational Leadership

Requirements for Certificate: Organizational Leadership		Credits
LDR 117	Introduction to Supervision	3
LDR 305	Human Relations in Organizations	3
LDR 308	Leadership in Organizations	3
LDR 394	Special Topics in Leadership	3
LDR 395	Teamwork in Organizations	3
TOTAL CREDITS		15

Department of Psychological Science

Location: Mathematics Education Psychology Center 301

Telephone: 859-572-5310

Fax: 859-572-6985

Email Address: Psychology@nku.edu

Web Address: <http://psychology.nku.edu/>

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 Marczinski, 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.

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

Core Courses in Psychology		Credits
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 in Psychology	1
Select three courses from the following:		
PSY 309	Psychology of Perception	9
PSY 311	Biopsychology	
PSY 337	Animal Learning	
PSY 338	Cognitive Processes	
PSY 340	Social Psychology	
Select three courses from the following:		
PSY 300	Personality Psychology	9
PSY 305	Psychological Testing	
PSY 319	Child Development	
PSY 333	Abnormal Psychology	
PSY 344	Industrial/Organizational Psychology	

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
Total Core Credits	43
Additional B.A. Credits	0-6
Additional B.S. Credits	3-6
TOTAL CREDITS FOR B.A.	43-49
TOTAL CREDITS FOR B.S.	46-49

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:

OPTION A	Credits
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

OPTION B	Credits
Successful completion of 3 semester credit hours in a study-abroad program approved by 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:

Option A	Credits
One college-level mathematics or statistics course in addition to STA 205 Introduction to Statistical Methods	3
NOTE: 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	
NOTE: 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

Option B		Credits
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	
NOTE: 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. 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 on field trips to federal prisons and 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
TOTAL CORE CREDITS		12

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	3
SOC 245	Latin American Societies	
SOC 303	Social Psychology	
SOC 318	Sociology of Work and Occupations	
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	3
SOC 305	Criminology	
SOC 332	Collective Behavior	
SOC 350	Women and Crime	
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)		
TOTAL TRACK CREDITS		27
Total Core Credits		12
TOTAL CREDITS		39

SOC electives (five courses; try to take criminology courses when possible)		15
TOTAL TRACK CREDITS		27
Total Core Credits		12
TOTAL CREDITS		39

Society, Environment and Technology Track		Credits
Social Institutions		
SOC 355	Sociology of the Environment	3
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 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
TOTAL TRACK CREDITS		27
Total Core Credits		12
TOTAL CREDITS		39

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.

Requirements for Minor: Sociology		Credits
SOC 100	Introduction to Sociology	3
SOC 320	Social Research	4
SOC 330	Sociological Theory	3
SOC electives (four courses)		12
TOTAL CREDITS		22

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.

Requirements for Minor: Aging and Society		Credits
Select three courses from the following:		
ANT 375	Anthropology of Aging	9
SOC 342	Sociology of Aging	
SOC 340	Population	
SOC 450	Medical Sociology	
SOC 499	Readings: Sociology	

Criminology Track		Credits
Social Institutions		
SOC 203	Sociology of Corrections	3
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		
SOC 202	Juvenile Delinquency	3
Social Issues and Social Change – select one course from the following:		
SOC 305	Criminology	3
SOC 350	Women and Crime	
SOC 357	Guns and Society	
SOC 380	Elite Deviance	
SOC 381	Deviance and Social Control	

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
TOTAL CREDITS		21

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: MaryCarol Hopkins, Douglas W. Hume, 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 Tire Ardaí: The Celtic Studies Club. Each year the anthropology program presents the Outstanding Student in Anthropology Award and the Award for Academic Excellence in Anthropology.

You should also know: Students must 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 308	Cultural Resource Management	
ANT 310	African Arts	
ANT 317	Ecological Anthropology	
ANT 318	Prehistoric Ecology	
ANT 320	Religion and Culture	
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 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 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	
	OR	3
ANT 410	Archaeological Theory	
Two electives in anthropology (at least one of which must be at the 300 or 400 level)		
6		
TOTAL CREDITS		44-45

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	6
Bachelor of Science in Anthropology Requirements	44-45
TOTAL CREDITS	53-54

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 312 Social Organization	
ANT 317 Ecological Anthropology	
ANT 318 Prehistoric Ecology	
ANT 320 Religion and Culture	
ANT 325 Applied Anthropology	
ANT 330 Women, Gender, and Culture	3
ANT 331 Women in Prehistory	
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 392 Research: Anthropology	
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 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	
TOTAL CREDITS		22-23

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	
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	9-11
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	
TOTAL CREDITS		21-24

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: Robert Trundle

Full-Time Faculty: 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 Student 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
History I – select one course from the following: PHI 180 History of Classical and Medieval Philosophy PHI 181 Philosophers, Culture & Creativity (Formerly PHI 180) PHI 355 Socrates and Plato PHI 394 Topics: Philosophy (when topic is appropriate)	3
History II – select one course from the following: PHI 185 History of Modern & Contemporary Philosophy PHI 305 Existentialism PHI 345 Philosophy of Mind PHI 315 Knowledge & Reality PHI 394 Topics: Philosophy (when topic is appropriate)	3
Logic Core PHI 165 Introduction to Logic OR PHI 265 Logic (Formerly PHI 130)	3
Ethics Core – select one course from the following: PHI 155 Introduction to Ethics PHI 200 Ethics PHI 210 Ethics of Information Technology PHI 220 Health Care Ethics PHI 302 Ethics and Science PHI 307 Business Ethics PHI 309 Global Ethics PHI 335 Great Traditions in Ethics	3
Electives in PHI courses	18
TOTAL CREDITS	30

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

Location: Fine Arts Center 205

Telephone: 859-572-6362

Fax: 859-572-6057

Email Addresses:

Dance – dance@nku.edu

Theatre – theatre@nku.edu

Theatre and Dance Box Office – boxoffice@nku.edu

Web Address: <http://theatre.nku.edu>

Department Chair: Kenneth Jones

Other Key Personnel:

Assistant Chair: 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_I_nformat.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.

Course Offerings		
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
Group I (Performance)		
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

Group II (History, Theory, and Criticism)		
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
Group III (Theatre Literature)		
TAR 355	Musical Theatre Literature I	3
TAR 452	Special Problems: Theatre Literature	3-9
TAR 455	Musical Theatre Literature II	3
Group IV (Theatre Design and Technology)		
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
Group V (Directing, Management, and Creative Dramatics)		
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

Group VI (Playwriting and Reviewing)		
TAR 380	Playwriting	3
TAR 481	Special Problems in Playwriting and Criticism	3-9
TAR 482	Screenwriting	3
Group VII (Production Hours and Independent Study)		
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
TOTAL CREDITS		36
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
TOTAL CREDITS		39
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
TOTAL CORE CREDITS		21

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
OR		
TAR 417	Acting Shakespeare	3
Select one course from the following:		
TAR 316	Acting Seminar I	
TAR 411	Special Problems: Theatre Acting	3
TAR 415	The One Person Show	
TAR 416	Acting Seminar II	
TAR 477	The Business of Theatre	1
TAR 495	Senior Project	1
Theatre and dance electives in groups I, IV, V, VI, VII		6
TOTAL EMPHASIS CREDITS		44
Total Core Credits		21
TOTAL CREDITS		65

Dance Emphasis	Credits
TAR 390-391, Production Credits 490-491	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 DAN 222 Jazz Dance I DAN 224 Tap I	3
Select one course from the following: DAN 321 Modern Dance II DAN 322 Jazz Dance II 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
TOTAL EMPHASIS CREDITS	47
Total Core Credits	21
TOTAL CREDITS	68

Musical Theatre Emphasis	Credits
TAR 390-391, Production Credits 490-491	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
TOTAL EMPHASIS CREDITS	47
Total Core Credits	21
TOTAL CREDITS	68

Playwriting Emphasis	Credits
TAR 390-391, Production Credits 490-491	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
TOTAL EMPHASIS CREDITS	41
Total Core Credits	21
TOTAL CREDITS	62

Degree Requirements - B.F.A. in Design or Technology

Courses	Credits
TAR 390-391, Production Credits 490-491	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 TAR 367 Stagecraft II TAR 362 Drafting for Theatre	3
Fundamental Series – select three courses from the following: TAR 260 Lighting Fundamentals TAR 262 Costume Construction TAR 277 Fundamentals of Sound Technology TAR 368 Theatrical Rendering and Model Building	9
Design Series – select three courses from the following: TAR 363 Lighting Design TAR 360 Scene Design I TAR 366 Costume Design I TAR 377 Sound Design	9
TAR 477 The Business of Theatre	1
TAR 495 Senior Project	1
Theatre and dance electives in area of interest	12
TOTAL PROGRAM CREDITS	47
Total Core Credits	21
TOTAL CREDITS	68

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, Barry Andersen, Nicholas Bonner, Tobias Brauer, Heidi Endres, Ana England, Steven Finke, Barbara Houghton, Lisa Jameson, Andrea Knarr, Marc Leone, Julie Mader-Meersman, Brad McCombs, Thomas F. McGovern III, Martin Meersman, Kevin Munte, Hans Schellhas, Paige Wideman

Undergraduate Programs:

Majors:

Bachelor of Arts in Art

Studio Arts

Art Education

Art History

Applied Photography

Bachelor of Arts in Graphic Design

Bachelor of Fine Arts in Art

Art History

Ceramics

Drawing

Graphic 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 graphic design 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 and the National Art Education Association, 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 the 12-credit common core 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.

Core 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
TOTAL CORE CREDITS		12

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	9	
ARTH 102 Survey of Western Art II		
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	3	
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		
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)		
TOTAL CREDITS IN STUDIO ARTS		
18		
TOTAL CORE CREDITS		
12		
TOTAL CREDITS		
42		

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 concentration 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 concentration	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
TOTAL CREDITS IN ART EDUCATION	48
Total Core Credits	12
TOTAL CREDITS	60
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 413	Applied Photography: Studio and Architecture	
ARTO 414	Applied Photography: Studio and Location	
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
TOTAL CREDITS ART HISTORY		34-42
Total Core Credits		12
TOTAL CREDITS		46-54

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 315	Photo-Documentary	3
ARTO 320	Intermediate Digital Photography	3
ARTO 410	Advanced 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	
TOTAL CREDITS IN APPLIED PHOTOGRAPHY		45
Total Core Credits		12
TOTAL CREDITS		57

Bachelor of Arts in Graphic Design

Special admission requirements: For admission to the Bachelor of Arts in Graphic Design, students must complete the following courses to qualify for the graphic 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," "ARTG 224: Introduction to Computer Graphic Design," "ARTG 225: Introduction to Graphic Design," "ARTG 226: Introduction to Typography," and "ARTG 283: Graphic Design Admittance Review."

Degree Requirements: B. A. - Graphic Design

Courses	Credits	
ARTH 103	Survey of Western Art III	3
ARTH 321	History of Graphic Design	3
ARTG 224	Introduction to Computer Graphic Design	3
ARTG 225	Introduction to Graphic Design	3
ARTG 226	Introduction to Typography	3
ARTG 283	Graphic Design Admittance Review	0
ARTG 317	Intermediate Typography	3
ARTO 210	Basic Photography	3
OR		3

ARTO 211	Basic Photography for Graphic Designers	
ARTD 310	Intermediate Drawing	3
ARTH 321	History of Graphic Design	3
ARTG 325	Production for Graphic Design	3
ARTG 323	Intermediate Graphic Design	3
ARTP 230	Painting I	3
Studio elective at the 200 level or above		3
Studio elective at the 300 level or above		3
TOTAL CREDITS IN GRAPHIC DESIGN		39
Total Core Credits		12
TOTAL CREDITS		51

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, graphic 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
TOTAL CORE CREDITS		12

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	
ART 499	Gallery/Museum Internship	3

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
TOTAL CREDITS IN ART HISTORY	52 - 64
Total Core Credits	12
TOTAL CREDITS	64 - 76

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.A. - Ceramics

Courses	Credits
Select three courses from the following: ARTH 101 Survey of Western Art I ARTH 102 Survey of Western Art II ARTH 103 Survey of Western Art III ARTH 104 Survey of Asian Art	9
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 or above	3
ART 497 Senior Exhibition	1
TOTAL CREDITS IN CERAMICS	58
Total Core Credits	12
TOTAL CREDITS	70

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 ARTH 102 Survey of Western Art II ARTH 103 Survey of Western Art III ARTH 104 Survey of Asian Art	9
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
TOTAL CREDITS IN DRAWING	58
Total Core Credits	12
TOTAL CREDITS	70

Bachelor of Fine Arts: Graphic Design

Special admission requirements: Successful review in "ARTG 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. - Graphic Design

Courses	Credits
Select three courses from the following: ARTH 101 Survey of Western Art I ARTH 102 Survey of Western Art II ARTH 103 Survey of Western Art III ARTH 104 Survey of Asian Art	9
ARTH 321 History of Graphic Design	3
ARTG 224 Introduction to Computer Graphic Design	3
ARTG 225 Introduction to Graphic Design	3
ARTG 226 Introduction to Typography	3
ARTG 283 Graphic Design Admittance Review	0
ARTD 310 Intermediate Drawing	3
ARTP 230 Painting I	3
ART 299 Portfolio Review (must be taken in either fall or spring of the intermediate-level year)	0
ARTG 317 Intermediate Typography	3
ARTG 323 Intermediate Graphic Design	3
ARTG 325 Production for Graphic Designers	3
ARTG 417 Advanced Typography	3
ARTG 425 Advanced Graphic Design - Fall	3
ARTG 421 Special Topics in Graphic Design	3
ARTG 426 Advanced Graphic Design - Spring	3
ARTG 428 Senior Project in Graphic Design	3
ARTG 496 Graphic Design Experiential Component OR	3
CEP 300 Cooperative Education	
ARTO 210 Basic Photography OR	3
ARTO 211 Basic Photography for Graphic Designers	
3D studio elective	3
2D studio elective	3
Studio elective at the 300 level or above	3
ART 497 Senior Exhibition	1
TOTAL CREDITS IN GRAPHIC DESIGN	67
Total Core Credits	12
TOTAL CREDITS	79

Bachelor of Fine Arts: New Media Art**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
Select four courses 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	
TOTAL CREDITS IN NEW MEDIA ART	61
Total Core Credits	12
TOTAL CREDITS	73

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
TOTAL CREDITS IN INTERMEDIA	58-61
Total Core Credits	12
TOTAL CREDITS	70-73

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 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	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
TOTAL CREDITS IN PAINTING	61
Total Core Credits	12
TOTAL CREDITS	73

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	
ARTH 102 Survey of Western Art II	3
ARTH 104 Survey of Asian Art	
One art history course level 300 or above	3
ART 317 Web Design for Artists	3
ARTH 358 History of Photography	3
ARTO 210 Basic Photography	3
ART 299 Portfolio Review (required second semester of sophomore year)	0
ARTO 310 Photography II	3
ARTO 311 Intermediate Photography	3
ARTO 315 Photo-Documentary	3
ARTO 320 Intermediate Digital Photography	3
ARTO 410 Advanced 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	
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	6
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
TOTAL IN APPLIED PHOTOGRAPHY	55
Total Core Credits	12
TOTAL CREDITS	67

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
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	
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 315 Photo-Documentary	3
ART 317 Web Design for Artists	3
ARTO 413 Applied Photography: Studio and Architecture	3
ARTO 414 Applied Photography: Studio and Location	3
ARTO 320 Intermediate Digital Photography	3
ARTO 410 Advanced Photography	3
Select two courses from the following:	
ART 300 Art of the Book	
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	6
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
TOTAL IN PHOTOGRAPHY	64
Total Core Credits	12
TOTAL CREDITS	76

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 ARTH 102 Survey of Western Art II ARTH 103 Survey of Western Art III ARTH 104 Survey of Asian Art	9
Two art history courses 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
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
TOTAL CREDITS IN PRINTMAKING	55
Total Core Credits	12
TOTAL CREDITS	67

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 ARTH 102 Survey of Western Art II ARTH 103 Survey of Western Art III ARTH 104 Survey of Asian Art	9
Two art history courses 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
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
TOTAL CREDITS IN SCULPTURE	58
Total Core Credits	12
TOTAL CREDITS	70

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 ARTH 102 Survey of Western Art II ARTH 103 Survey of Western Art III ARTH 104 Survey of Asian Art	6
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),	15
TOTAL CREDITS	27

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 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	9
Studio art electives – include ART, ARTC (Ceramics), ARTD (Drawing), ARTM (New Media Art), ARTO (Photography), ARTR (Printmaking), and ARTS (SCULPTURE)	3
TOTAL CREDITS	24

Department of World Languages and Literatures

Location: Landrum Academic Center 134

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Department Coordinator: Tiffany Budd

Full-Time Faculty: Caryn Connelly, Carol Anne Costabile-Heming, Irene Encarnación, Nancy Jentsch, Barbara Klaw, Katherine Kurk, Hilary Landwehr, Kajsa Larson, Thomas Leech, Gisèle Lorient-Raymer, Blas Puente-Baldoceda

Undergraduate Programs:

Majors:

Bachelor of Arts

French

French with teaching certification

German

German with teaching certification

Spanish

Spanish with teaching certification

Minors:

French

French with teaching certificate

German

German with teaching certificate

Spanish

Spanish with teaching certificate

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 one of these languages may not be taken for credit by a student who has already received credit for this course or a higher numbered course in this sequence or any course at the 300 level or above 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 <i>*Prerequisite: FRE 101 Elementary French I and FRE 102 Elementary French II</i>	3
FRE 202	3
FRE 304	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
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
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
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
Program Credits		36
Additional Prerequisite Credits		6
TOTAL CREDITS		42

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
OR	
FRE 402 Advanced French Grammar and Syntax*	
TOTAL CREDITS	45

*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	
GER 311 German Cultural History	
GER 330 Studies in German Language Cinema	

GER 340 Business German	9	
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		
GER 322 German Drama		
GER 323 German Prose Fiction	9	
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		
ENG 371 Traditional Grammar		
ENG 381 Introduction to Linguistics		
GEO 402 Geography of Europe		
HIS 303 Europe in the Middle Ages	3	
HIS 304 Renaissance Europe		
HIS 305 Reformation Europe		
HIS 308 Modern Europe 1870-1920		
HIS 309 Modern Europe since 1920		
HIS 362 History of Germany to 1870		
HIS 363 History of Germany since 1870		
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)		
PSC 103 International Politics (relevant topic)		
Two GER electives above the 202 level	6	
WLL 400 World Languages Program Assessment	0	
Program Credits		36
Additional Prerequisite Credits		6
TOTAL CREDITS		42

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
OR		
GER 402	Advanced German Grammar and Syntax*	
TOTAL CREDITS		45

*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>*Prerequisite: 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	9
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 three courses from the following:		
SPI 320	Survey of Peninsular Spanish Literature	9
SPI 321	Survey of Spanish-American Literature	
SPI 322	Hispanic Drama	
SPI 323	Hispanic Prose Fiction	
SPI 481	Studies: Spanish and Spanish-American Literature	
SPI 520	Readings in Spanish (literary topic)	
Interdisciplinary Component: select one course from the following:		
ANT 245	Peoples of Latin America and the Caribbean	3
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	
Two SPI electives above the 202 level		6
WLL 400 World Languages Program Assessment		0
Program Credits		36
Additional Prerequisite Credits		6
TOTAL CREDITS		42

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*	0
OR		
SPI 402	Advanced Spanish Grammar and Syntax*	
TOTAL CREDITS		45

*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*	3
<i>*Prerequisite: 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 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
Program Credits		21
Additional prerequisite credits		6
TOTAL CREDITS		27

Minor in French with Teaching Certification

The student is required to complete the French minor plus "FRE 350: Methods of Teaching French." In addition, students must comply with all certification requirements in the College of Education and Human Services.

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*	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 one course from the following:		
GER 310	Contemporary German Life	
GER 311	German Cultural History	
GER 330	Studies in German Language Cinema	
GER 340	Business German	3
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	
GER 322	German Drama	
GER 323	German Prose Fiction	3
GER 481	Studies in German Literature	
GER 520	Readings: German (literary topic)	
Two GER electives above the 202 level		6
Program Credits		21
Additional Prerequisite Credits		6
TOTAL CREDITS		27

Minor in German with Teaching Certification

The student is required to complete the German minor plus "GER 350: Methods of Teaching German." In addition, students must comply with all certification requirements in the College of Education and Human Services.

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*	3
<i>*Prerequisite: 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 one course 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	3
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	
SPI 321	Survey of Spanish-American Literature	
SPI 322	Hispanic Drama	3
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
Program Credits		21
Additional Prerequisite Credits		6
TOTAL CREDITS		27

Minor in Spanish with Teaching Certification

The student is required to complete the Spanish minor plus "SPI 350: Methods of Teaching Spanish." In addition, students must comply with all certification requirements in the College of Education and Human Services.

HAILE/U.S. BANK COLLEGE OF BUSINESS

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:

Assistant Dean: Leslie Kyle

Budget Officer: Donna Grey

Director, Masters of Business Administration: (vacant)

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>

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: clarkinj1@nku.edu

Web Address: <http://ei.nku.edu/>

Director: John E. Clarkin

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. It 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

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 Owoso, 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 employment 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*	3
<i>*Prerequisite: C- or better in MAT 109 Algebra for College Students or ACT ≥ 23</i>		

ACC 200	Principles of Accounting I-Financial*	3
<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
Credits for Selective Admission		30
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
Core Credits in Business		24
Core Courses in Accounting		
MAT 112	Applied Calculus	3
<i>*Prerequisites: C- or better in MAT 109 or placement</i>		
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
OR		
ACC 396	Internship: Accounting	
Core Credits in Accounting		22
Additional Prerequisite Credits		3-6
TOTAL CORE CREDITS		79-82

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
OR		
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	
TOTAL TRACK CREDITS		12
Total Core Credits		79-82
TOTAL CREDITS		91-94

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
TOTAL TRACK CREDITS		12
Total Core Credits		79-82
TOTAL CREDITS		91-94

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*	3
<i>*Prerequisite: C- or better in MAT 109 Algebra for College Students or ACT ≥ 23</i>		
ACC 200	Principles of Accounting I-Financial*	3
<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
Credits for Selective Admission		30
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
Core Credits in Business		24
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
Credit Hours in Major Courses		24
Additional Prerequisite Credits		3-6
TOTAL CREDITS		81-84

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*	3
<i>*Prerequisite: INF 101 Computer Literacy and Informatics</i>		
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	
Program Credits		22
Additional Prerequisite Credits		3
TOTAL CREDITS		25

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
TOTAL CREDITS		18

Accounting, Finance, and Business Law Postbaccalaureate Certificates

Any student with a prior undergraduate degree is eligible to pursue postbaccalaureate certificate programs in the Haile/U.S. Bank College of Business. Students enrolled in certificate programs must meet all relevant course prerequisites except class standing and certification. Waivers may be given for program courses completed as part of a previous undergraduate degree. Students with a non-business undergraduate degree may need to complete additional preparatory courses. All coursework must be taken for a letter grade and must be completed within 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
TOTAL CREDITS*		18
*Students who have not completed all of the prerequisite requirements will need to complete those courses in addition to the courses listed here.		

Finance Certificate

The certificate in finance is designed for those interested in corporate finance. The courses are designed to provide students with an understanding of corporate finance, investments, and institutions. Students enrolled in this certificate program must meet all course prerequisites except class standing and certification. Students with a business degree may have already completed some of the requirements, in which case they will be waived.

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
TOTAL CREDITS*		15
*Students who have not completed all of the prerequisite requirements will need to complete those courses in addition to the courses listed here.		

Department of Construction Management

Location: Business Academic Center 392

Telephone: 859-572-5440

Email Address: cmgt@nku.edu

Web Address: <http://constructionmgmt.nku.edu/>

Department Chair: Ihab Saad

Other Key Personnel:

Department Coordinator: vacant

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

Teacher Certification in Business and Marketing

Construction Management

Construction Management-Surveying

Minor:

Construction Management

Associate Degree:

Construction Technology

Undergraduate Certificate:

Architectural Drafting

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 graduates 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 **OR** they must complete the requirements for the business and marketing track described below.

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
CMGT 494	Seminar: Construction Management	3
EDU 300	Human Growth and Development	3
PSY 300	OR Personality Psychology	
Technical Component (52 hours of approved credit in area of study including 21 hours at the 300 level or above)		52
TOTAL CREDITS		83

Bachelor of Science with teacher certification in Business and Marketing

The business and marketing program prepares students to teach business subjects in high school and middle grades. It provides the courses and guidance to enable students to meet Kentucky Department of Education teaching certification requirements. Students pursuing a business teacher education/ secondary education program should review that portion of the NKU Undergraduate Catalog relating to education. Upon deciding to pursue the program, students must schedule an appointment with the certification specialist in the College of Education and Human Services.

NKU is an approved institutional member of the National Association of Business Teacher Education. NKU is accredited by the National Council for the Accreditation of Teacher Education and by the Southern Association of Colleges and Schools.

To complete the program, students should complete the courses listed below. They are NOT required to complete the courses listed above for the career and technical education program.

Degree Requirements: B.S. – Teacher Certification in Business and Marketing

Courses	Credits
Technical Core	
INF 101 Computer Literacy and Informatics	3
INF 110 Business Programming	3
INF 186 Media Web Coding	3
CTE 316 Intercultural Business Communication	3
CMGT 383 Advanced Technical Study	3
ENG 340 Business Writing	3
CMST 440 Communication Training and Development	3
Total Technical Credits	21
Professional Core	
ACC 200 Principles of Accounting I—Financial	3
ACC 201 Principles of Accounting II—Managerial	3
BUS 230 Legal Environment	3
ECO 200 Principles of Macroeconomics (or ECO 201)	3
ECO 215 Contemporary Economic Issues	3
MGT 205 Business Management Principles	3
MKT 305 Principles of Marketing	3
Total Professional Credits	21
Education Core	
EDU 104 Orientation: Education Profession/Program	1
EDU 300 Human Growth and Development	3
EDU 305 Introduction to Education	2
EDU 311 Admission Practicum for Secondary Grades	2
EDU 313 Instructional Technology	2
EDS 360 Students with Exceptionalities in the Schools	2
EDU 318 Classroom Climate Management: Middle School	1
EDS 322 Instruction Plan for Inclusive Elementary Classrooms	2
EDU 324 Fundamentals of Secondary Education	3
EDU 393 Secondary Practicum I	2
EDU 325 Educational Assessment: Secondary	2
EDU 396 Secondary Practicum II	2
EDMT 542 Methodology/Pedagogy in Middle School/Secondary Business/Marketing	3
EDU 496 Student Teaching in Secondary School	12
Total Education Credits	39
TOTAL CREDITS	81

Bachelor of Science in Construction Management

This American Council for Construction Education-accredited Bachelor of Science program is a balanced curriculum drawn from a variety of disciplines relating to the construction industry. Students gain knowledge and understanding of materials and construction processes, principles of design, and concepts of supervision and human relations. Additional experiences promote development of communication and technical competencies that enable students to excel with technical, managerial, entrepreneurial, and production problems.

Students earning their Bachelor of Science in Construction Management are highly sought after by all types of general contractors ranging from the very large multinational corporations to the small family-owned local enterprises. Construction management students are also in high demand among the specialty contractors (such as concrete, HVAC, and roofing contractors, just to name a few) as well as both large and small homebuilders locally and nationally. Graduates also find excellent career opportunities in the utilities field (for example, water, sewer, and power), government (for example, transportation department, building inspection, planning and zoning, and housing authority), and construction-related services including design, testing, and suppliers.

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 Processes I	3
CMGT 121 Construction Materials and Processes II	3
CMGT 122 Architectural Design and Drafting	2
CMGT 220 Plane Surveying	3
CMGT 222 Architectural CAD	2
CMGT 301 Cooperative Education in Construction Management (two required)	6
CMGT 303 Construction Specifications and Estimating	3
CMGT 305 M/E/P Systems I	3
CMGT 306 M/E/P Systems II	3
CMGT 320 Construction Estimating	3
CMGT 322 Structural Design	3
CMGT 324 Construction Scheduling	3
CMGT 325 Construction Safety	3
CMGT 328 Soil Technology and Foundation Design	3
CMGT 415 Construction Management	3
CMGT 420 Construction Cost Control	3
CMGT 424 Capstone: Construction Renovation and Restoration OR	3
CMGT 431 Capstone: Commercial and Residential	

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 430	Design Build	
CMGT 383	Advanced Technical Study (with approval of Department Chair)	
CMGT 494	Seminar: Construction Management	
EGT 316	Materials Processing and Fabrication	
Required courses in construction management		61
Core Courses in Other Disciplines		
MAT 119	Pre-Calculus Mathematics*	3
<i>*Prerequisite: MAT 109 Algebra for College Students (for students with below a 23 in math on the ACT)</i>		
GLY 120/120L	This Dangerous Earth with Laboratory**	4
PHY 211	General Physics I with Laboratory**	5
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	
Core Credits in Other Disciplines		15
Required courses from business component (listed below) or entrepreneurship minor		18
Additional prerequisite credits		0-3
TOTAL CREDITS		94-97
**Courses with double asterisks are both required and count toward general education credit.		

Standard Business Component	Credits	
BUS 230 Legal Environment	3	
ECO 200 Principles of Macroeconomics	3	
OR		
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	6	
OR		
ECO 201 Principles of Microeconomics (NOT taken above)		
BUS 330 Ethics: Managerial Decision-Making	6	
FIN 305 Principles of Finance		
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		
TOTAL		18

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 325: Construction Safety," "CMGT 415: Construction Management," and "CMGT 431: Capstone: Commercial and Residential" (a special section offered online only for surveyors). The advanced surveying certificate at CSTCC and the courses at NKU for this degree are 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

Requirements for Minor: Construction Management		Credits
CMGT 101	Introduction to Construction Management	3
CMGT 120	Construction Materials and Processes I	3
CMGT 121	Construction Materials and Processes II	3
CMGT 122	Architectural Design and Drafting	2
CMGT 222	Architectural CAD	2
CMGT 303	Construction Specifications and Estimating	3
Two CMGT elective courses approved by advisor and not listed above		6
TOTAL CREDITS		22

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 structures. Construction technicians provide services to engineers, architects, developers, construction materials designers, 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

Courses in Construction Management		Credits
CMGT 101	Introduction to Construction Management	3
CMGT 120	Construction Materials and Processes I	3
CMGT 121	Construction Materials and Processes II	3
CMGT 122	Architectural Design and Drafting	2
CMGT 220	Plane Surveying	3
CMGT 222	Architectural CAD	2
CMGT 301	Cooperative Education in Construction Management	3
CMGT 303	Construction Specifications and Estimating	3
CMGT 305	M/E/P Systems I	3
CMGT 306	M/E/P Systems II	3
CMGT 320	Construction Estimating	3
CMGT 325	Construction Safety	3
Three CMGT courses not listed above and as approved by advisor		9
Credits in Construction Management		43
Courses in Other Disciplines		
MAT 119	Pre-Calculus Mathematics*	3
<i>*Prerequisite: MAT 109 Algebra for College Students (for students who have below an ACT math score of 23)</i>		
PHY 211	General Physics I with Laboratory**	5
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	
Credits in Other Disciplines		11
Additional Prerequisites Credits		0-3
TOTAL CREDITS		54-57

**Courses with double asterisks are both required and count toward general education credit.

Construction Management Undergraduate Certificate

Undergraduate Certificate in Architectural Drafting

This program is designed to prepare students for entry-level positions as drafters in the architectural and construction industries. The program offers the opportunity for students to gain skills on the board and CAD, while developing a basic understanding of construction materials and processes. All courses in this certificate program may be transferred into the construction technology associate degree program.

Requirements for Certificate: Architectural Drafting		Credits
CMGT 101	Introduction to Construction Management	3
CMGT 120	Construction Materials and Processes I	3
CMGT 121	Construction Materials and Processes II	3
CMGT 122	Architectural Design and Drafting	2
CMGT 222	Architectural CAD	2
CMGT 301	Cooperative Education in Construction Management	3
Two CMGT elective courses not listed above and approved by advisor		6
TOTAL CREDITS		22

Department of Management

Location: Business Academic Center 376

Telephone: 859-572-6559

Email Address: MGT@nku.edu

Web Address: <http://management.nku.edu>

Department Chair: Denise Luethge

Other Key Personnel:

Director, Master of Executive Leadership and

Organizational Change: Ken Rhee

Department Coordinator: Jessica Slone

Full-Time Faculty: Ben Baran, James Bast, Carole Cangioni, Michael Carrell, John Clarkin, Rodney D'Souza, Matthew Ford, Richard Gilson, Bertie Greer, Jeanne Holmes, Stephanie Hughes, 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 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*	3
<i>*Prerequisite: C- or better in MAT 109 Algebra for College Students or ACT ≥ 23</i>		
ACC 200	Principles of Accounting I-Financial*	3
<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
Credits for Selective Admission		30
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
Credits for Business Core Courses		24

Courses for Business Administration		
FIN 205	Personal Financial Management	3
	OR	
MGT 205	Business Management Principles	
MAT 112	Applied Calculus	3
	OR	
STA 213	Statistics for Business Applications II	
MAT 109	Algebra for College Students (or ACT ≥ 23)	3
Seven electives, 300 level or above, from AACSB-accredited business programs		21
Credits for Business Administration Major		30
Additional Prerequisite Credits		3-6
TOTAL CREDITS		87-90

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 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 ≥ 23</i>		
ACC 200	Principles of Accounting I-Financial	3
<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
Credits for Selective Admission		30
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
Credits for Business Core		24
Entrepreneurship 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
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 five courses from the following:		
CMST 303	Organizational Communication	15
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	
Credits for Entrepreneurship Major		39
Additional Prerequisite Credits		3-6
TOTAL CREDITS		96-99

Bachelor of Science with a major in Human Resource Management and the required minor in Business Administration

The Bachelor of Science in Human Resource Management is designed to prepare human resource professionals to deal with the challenge of managing today's workforce in a small but growing business, corporate or nonprofit entity, or multinational organization. The program content is designed to provide comprehensive coverage of the major functional areas of human resource management such as staffing, employee training and development, wages, and benefits. In addition, students will understand and develop personal competencies such as business communication skills and skills in managing diversity. Finally, students will have the opportunity to gain practical experience in human resource management by completion of a rigorous and required internship program.

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	3
<i>*Prerequisite: C- or better in MAT 109 Algebra for College Students or ACT \geq 23</i>		
ACC 200	Principles of Accounting I-Financial	3
<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
Credits for Selective Admission		30
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
Credits for Business Core		24

Human Resource Management 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
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
HRM 480	Strategic Human Resources	3
Two Electives chosen from any 300- or 400-level course in MGT or HRM		6
Credits for Human Resource Management Major		39
Additional Prerequisite Credits		3-6
TOTAL CREDITS		96-99

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	3
<i>*Prerequisite: C- or better in MAT 109 Algebra for College Students or ACT ≥ 23</i>		
ACC 200	Principles of Accounting I-Financial	3
<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
Credits for Selective Admission		30
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
Credits for Business Core		24
Courses for Management Major		
MAT 109	Algebra for College Students (or ACT ≥ 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 310	Managerial Behavior	3
MGT 340	Human Resources Administration	3
MGT 406	Leadership Assessment & Development II	3
Four courses chosen from any 300- or 400-level course in MGT, ENTP, HRM		12
Credits for Management Major		39
Additional Prerequisite Credits		3-6
TOTAL CREDITS		96-99

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	3
<i>*Prerequisite: INF 101 Computer Literacy and Informatics and a college-level mathematics course (MAT or STA)</i>		
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	3
<i>*Prerequisites: STA 212: Statistics for Business Applications I</i>		
MGT 305	Operations Management in Business	3
<i>*Prerequisites: MAT 114: Finite Mathematics and STA 212: Statistics for Business Applications I</i>		
MKT 305	Principles of Marketing	3
Program Credits		27
Additional Prerequisite Credits		9
TOTAL CREDITS		36

Minor in Entrepreneurial Studies

The focus of the minor in entrepreneurial studies 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	3 or 6
OR		
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
TOTAL CREDITS		18 or 21

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	3
<i>*Prerequisite: CMST 101 Public Speaking</i>		
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
Program Credits		21
Additional Prerequisite Credits		3
TOTAL CREDITS		24

Management Associate Degree

Associate Degree in Pre-Business Studies

The associate degree program is designed to provide a consistency between it 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)	3
<i>*Prerequisite: C- or better in MAHD 099 or placement</i>		
ACC 200	Principles of Accounting I-Financial	3
<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
MGT 205	Business Management Principles	3
Core Credits		24

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
Credits in General Education		18
Electives		
Select electives that fit into the bachelor's degree requirements for business majors.		18
Elective Credits		18
Additional Prerequisite Credits		3
TOTAL CREDITS		63

Management Postbaccalaureate Certificate

Postbaccalaureate Certificate in Entrepreneurial Studies

Any student with a prior undergraduate degree is eligible to pursue postbaccalaureate certificate programs in the Haile/U.S. Bank College of Business. Students enrolled in certificate programs must meet all relevant course prerequisites except class standing and certification. Waivers may be given for program courses completed as part of a previous undergraduate degree. Students with a non-business undergraduate degree may need to complete additional preparatory courses. All coursework must be taken for a letter grade and must be completed within 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	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
TOTAL CREDITS		15 or 18

Department of Marketing, Economics, and Sports Business

Location: Business Academic Center 314

Telephone: 859-572-6582

Email Address: markets@nku.edu

Web Address: <http://mesb.nku.edu/>

Department Chair: Greg Martin

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

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 the 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 the professional advisory boards and faculty. The department also has 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.

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 OR	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
TOTAL CREDITS	36

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*	3
<i>*Prerequisite: C- or better in MAT 109 Algebra for College Students or ACT ≥23</i>	
ACC 200 Principles of Accounting I-Financial*	3
<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
Credits for Selective Admission	30
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
Core Credits in Business	24
Core Courses for Marketing Program	
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
Core Credits in Marketing	24
Additional Prerequisite Credits	3-6
TOTAL CORE CREDITS	81-84

Comprehensive Marketing Specialization		Credits
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	
TOTAL SPECIALIZATION CREDITS		21
Total Core Credits		81-84
TOTAL CREDITS		102-105

Marketing Research Specialization		Credits
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	
TOTAL SPECIALIZATION CREDITS		21
Total Core Credits		81-84
TOTAL CREDITS		102-105

Marketing Communications Specialization		Credits
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	

CMST 340	Strategies of Persuasion	3
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	
TOTAL SPECIALIZATION CREDITS		21
Total Core Credits		81-84
TOTAL CREDITS		102-105

Consumer and Product Marketing Specialization		Credits
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	
TOTAL SPECIALIZATION CREDITS		21
Total Core Credits		81-84
TOTAL CREDITS		102-105

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*	3
<i>*Prerequisite: C- or better in MAT 109 Algebra for College Students or ACT ≥ 23</i>		
ACC 200	Principles of Accounting I-Financial*	3
<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
Credits for Selective Admission		30
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
Credits for Business Core		24
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
OR		
SPB 497	Signature Sports Event II	3
Credits for Sports Business		36
Additional Prerequisite Credits		3-6
TOTAL CREDITS		93-96

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 of the general education program. 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*	3
<i>*Prerequisite: college-level mathematics course (MAT or STA)</i>		
ECO 201	Principles of Microeconomics	3
Six ECO courses at the 300 level or above		18
Program Credits		24
Additional Prerequisite Credits		3
TOTAL CREDITS		27

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
OR		
PSY 304	Consumer Psychology	
<i>*Prerequisite: PSY 100 Introduction to Psychology</i>		
Select four courses from the following:		
Any 300-level MKT course		
SPB 305	Sports Marketing	
SPB 308	Sports Promotion Tools	
Other course with consent of department		12
Program Credits		21
Additional Prerequisite Credits		3
TOTAL CREDITS		24

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*	3
<i>*Prerequisite: college-level mathematics course (MAT or STA)</i>		
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
Program Credits		21
Additional Prerequisite Credits		3
TOTAL CREDITS		24

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*	3
<i>*Prerequisite: ENG 291 or equivalent</i>		
MKT 305	Principles of Marketing	3
MKT 320	Consumer Behavior	3
MKT 392	Consumer Insights	3
MKT 492	Advanced Marketing Research	3
Program Credits		21
Additional Prerequisite Credits		3
TOTAL CREDITS		24

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
TOTAL CREDITS		15

COLLEGE OF EDUCATION AND HUMAN SERVICES

Location: Mathematics Education Psychology Center 206

Telephone: 859-572-6068

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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: Shirley Raleigh

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>

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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 major or 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

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

Web Address: <http://gifted.nku.edu>

Directors: Kevin Besnoy and 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

Web Address:

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: Larry Sexton

Other Key Personnel:

Director of Counseling and Human Services: Nan Littleton

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: Jackie Smith

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, Donna Breault, Susan Cook, Willie Elliott, Ken Engebretson, Nancy Erwin, Dana Harley, Greg Hatchett, Vanessa Hunn, Nan Littleton, Caroline Macke, Tara McLendon, Holly Riffe, Mary Rozier, Larry Sexton, Jackie Smith, Karen Tapp, 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 Major

Counseling and Human Services

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, halfway 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 join the HSR listserv. Members of the listserv receive valuable information about upcoming events sponsored by the Human Services Club as well as local agency events, projects, and job opportunities within the field. Students can subscribe here (humanservicemajors@listserv.nku.edu).
- 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	
HSR 306	Introduction to Gerontology	
HSR 314	Death, Dying, and Grief	
HSR 321	Mental Health and Aging	
HSR 326	Behavior Problems of Children	6
HSR 340	Alcoholism: Issues and Intervention	
HSR 410	Psychosocial Forces in Late Life	
HSR 450	Alcoholism: The Dysfunctional Family	
HSR 500	Multicultural Family Work	
HSR 502	Positive Guidance Strategies for Early Childhood Practitioners	
TOTAL CREDITS		59

Counseling Minor

Minor in Counseling and Human Services

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 515 Introduction to Child Maltreatment (PCWCP required)	
SWK 516 Child Welfare II: Interventions (PCWCP required)	
SWK 411 Social Work and the Law	
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	
TOTAL CREDITS		75

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	
TOTAL CREDITS		12

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:

Director, Athletic Training Education Program: Trey Morgan
Department Coordinator: Lisa Schultz

Full-Time Faculty: Matthew Asare, Pamela Beehler, Gary Eippert, Mary Kirk, Alar Lipping, Trey Morgan, Will Peveler, Wiley Piazza, Carol Ryan

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 Accreditation 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 physical 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 curriculum has 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 the 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 (KH)		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 *	3
<i>*Prerequisite: BIO 208/208L Human Anatomy and Physiology I with Laboratory</i>		
KIN 330	Motor Development	3
KIN 340	Exercise Physiology	4
KIN 349	Exercise Prescription	4
KIN 360	Statistics and Measurement in Kinesiology *	3
<i>*Prerequisite: MAHD 099 Intermediate Algebra or acceptable placement score</i>		
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 OR	9
KIN 497	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
Credits in Kinesiology and Health		65
Courses in Other Disciplines		
BIO 126	Human Nutrition	3
BIO 208/208L	Human Anatomy and Physiology I with Laboratory	4
BIO 209/209L	Human Anatomy and Physiology II with Laboratory	4
CHE 115/115L	Physiological Chemistry with Laboratory*	4
<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>		
PHY 110	Introduction to Physics with Laboratory*	4
<i>*Prerequisite: MAHD 099 Intermediate Algebra or equivalent</i>		
Credits in Other Disciplines		19
Additional Prerequisite Credits		4-7
TOTAL CREDITS		88-91

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 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.
- Be certified in CPR for the Professional Rescuer (AED) and first aid.

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 22 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 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)
- BIO 209/209L Human Anatomy and Physiology II with Laboratory (4 credits)

Directed observation

As part of "ATP 280: Pre-Athletic Training," students will complete 50 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 Trey Morgan, 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." In order 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 that will address 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.

Student selection. 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. The overall score is 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 begin clinical rotations the spring semester following admission to the ATEP.

Technical standards. 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. Transfer students should contact Trey Morgan, ATEP director, for details regarding course transfer and program admission eligibility. He can be reached at 859-572-1399 or morgant@nku.edu.

You should also know:

Uniforms: Students are required to purchase uniforms and name tags as designated by the ATEP faculty. This uniform is required for all clinical assignments.

Primary health insurance: NKU ATEP students are required to have a primary health insurance policy throughout their enrollment in the NKU ATEP program. Students must provide proof of the policy annually.

Program fees: Program fees include the following:

- 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.

Physical examination: ATEP students are required to complete an annual physical examination to ensure their health and physical fitness will allow them to complete the duties required of an athletic trainer.

Hepatitis B vaccination: 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.

BOC examination: 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 cohort program completed over five consecutive semesters with a clinical education component. The coursework consists of 70 credit hours designed to provide 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.

Students who major in athletic training complete six clinical education courses. Each course has an associated clinical education assignment in a location where students must complete a minimum of 12 hours per week under the supervision of an approved clinical supervisor. This requirement must be met on a weekly basis until the completion of 100 hours for "ATP 296: Athletic Training Clinical I" clinical rotation and 180 hours for the remaining clinical education assignments. "ATP 300: Equipment Intensive Field Experience Program" is a 50-hour field experience.

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. – Athletic Training (clinical education program)

Courses in Athletic Training		Credits
ATP 280	Pre-Athletic Training	2
ATP 296	Athletic Training Clinical I	2
ATP 300	Equipment Intensive Field Experience Program	1
ATP 333	Lower Extremity Evaluation*	3
<i>*Prerequisites: BIO 208/208L Human Anatomy and Physiology I with Laboratory and BIO 209/209L Human Anatomy and Physiology II with Laboratory</i>		
ATP 334	Upper Extremity Evaluation*	3
<i>*Prerequisites: BIO 208/208L Human Anatomy and Physiology I with Laboratory and BIO 209/209L Human Anatomy and Physiology II with Laboratory</i>		
ATP 335	Head and Spine Evaluation*	3
<i>*Prerequisites: BIO 208/208L Human Anatomy and Physiology I with Laboratory</i>		
ATP 394	Athletic Training Practicum II	2
ATP 396	Athletic Training Clinical III	2
ATP 420	General Medical for Athletic Training	2
ATP 425	Therapeutic Modalities*	4
<i>*Prerequisite: PHY 110 Introduction to Physics with Laboratory</i>		
ATP 430	Pharmacology for Athletic Training	3
ATP 435	Administration of Athletic Health Care*	3
<i>*Prerequisites: BIO 208/208L Human Anatomy and Physiology I with Laboratory and BIO 209/209L Human Anatomy and Physiology II with Laboratory</i>		
ATP 440	Rehabilitation of Athletic Injuries	4
ATP 455	Current Issues in Athletic Training	3
ATP 494	Athletic Training Practicum IV	2
ATP 496	Athletic Training Clinical V	2
Credits in Athletic Training		41

Courses in Other Disciplines		
HEA 135	Safety and First Aid	3
KIN 200	Concepts of Lifetime Fitness	2
KIN 260	Introduction to Strength and Conditioning	3
KIN 280	Introduction to Athletic Training	3
KIN 360	Statistics and Measurements in Kinesiology*	3
<i>*Prerequisite: MAHD 099 Intermediate Algebra or acceptable placement score</i>		
KIN 370	Biomechanics	3
KIN 340	Exercise Physiology	4
KIN 349	Exercise Prescription	4
PSY 405	Counseling Psychology*	3
<i>*Prerequisite: PSY 100 Introduction to Psychology</i>		
Credits in Other Disciplines		28
Additional Prerequisite Credits		15
TOTAL CREDITS		77

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 261	Computer Applications for Health and Kinesiology	2
KIN 320	Motor Learning and Performance *	3
<i>*Prerequisite: BIO 208/208L Human Anatomy and Physiology I with Laboratory</i>		
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
Credits in Kinesiology and Health		26
Courses in Physical Education		
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
Credits in Physical Education		28

Core Courses in Other Disciplines		
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: 2.5 or above overall GPA; composite score of 21 or higher on the ACT or 990 or above on the SAT; 60 or more credit hours completed		
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
Credit in Other Disciplines		31
Additional Prerequisite Credits		4
TOTAL CREDITS		89

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 non-certification program.

Students must complete the core and one of the two tracks.

Requirements for Minor: Health Education

Core Courses in Kinesiology and Health		Credits
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
Credits in Kinesiology and Health		20
Core Courses in Other Disciplines		
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		
Credits in Other Disciplines		6-11
TOTAL CORE CREDITS		26-31

Health Education Track leading to P-12 Health Education Teacher Certification		Credits
KIN 261	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
TOTAL TRACK CREDITS		31
Total Core Credits		26-31
TOTAL CREDITS		57-62

Health Education Track (Non-Certification)		Credits
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
BIO 126	Human Nutrition	3
BIO 208/208L	Human Anatomy and Physiology I with Laboratory (required for exercise science or athletic training majors who want this non-certification health education track)	4
BIO 209/209L	Human Anatomy and Physiology II with Laboratory (required for exercise science or athletic training majors who want this non-certification health education track)	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, exercise science or athletic training major; "BIO 121 Disease and the Systems They Affect" is not required for physical education, exercise science, or athletic training.		3
TOTAL TRACK CREDITS		26-31
Total Core Credits		26-31
TOTAL CREDITS		52-62

Minor in Physical Education

The minor in physical education is offered as an option for students interested in the field of physical activity. The courses provide an initial level of training appropriate for an academic minor at NKU. The physical education minor does not result in certification to teach physical education in the schools. Students must achieve 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.

Requirements for Minor: Physical Education		Credits
KIN 125	Introduction to Physical Education, Fitness, and Sport	3
HEA 135	Safety and First Aid	3
KIN 200	Concepts of Lifetime Fitness	2
PHE 234	Team Sports	3
PHE 235	Individual and Dual Sports	3
KIN 330	Motor Development	3
KIN 360	Statistics and Measurement in Kinesiology*	3
<i>*Prerequisite:</i>	<i>MAHD 099 Intermediate Algebra or acceptable placement score</i>	
KIN 340	Exercise Physiology*	4
<i>*Prerequisites:</i>	<i>BIO 208/208L Human Anatomy and Physiology I with Laboratory</i>	

KIN 349	Exercise Prescription	4
Program Credits		28
Additional Prerequisite Credits		4
TOTAL CREDITS		32

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 Trey Morgan, ATEP director at 859-572-1399 or send him an email (morgant@nku.edu).

Requirements for Minor: Sports Medicine		Credits
KIN 280	Introduction to Athletic Training	3
Select 18 credits from the following*:		
ATP 333	Lower Extremity Evaluation	
ATP 334	Upper Extremity Evaluation	
ATP 335	Head and Spine Evaluation	
ATP 420	General Medical for Athletic Training	
ATP 425	Therapeutic Modalities	
ATP 440	Rehabilitation of Athletic Injuries	
ATP 435	Administration of Athletic Health Care	18
KIN 260	Introduction to Strength and Conditioning	
KIN 280	Introduction to Athletic Training	
KIN 370	Biomechanics	
KIN 340	Exercise Physiology	
KIN 349	Exercise Prescription	
TOTAL CREDITS		21
*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.		

Kinesiology and Health Certificate

The department offers P-12 teaching certification in health education for those who have already earned teaching certification in another content area. The health education certificate requires 31 credits in KIN, HEA, BIO, and EDU.

Department of Teacher Education

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<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, Rachele Bruno, Hannah Chai, Kimberly Code, Chris Cook, Steve Crites, Denise Dallmer, Sara Eisenhardt, Shawn Faulkner, Doug Feldmann, Jaesook Gilbert, Helene Harte, John Huss, Cathy Ingram, Missy Jones, Sarah Kasten, Steve Kerlin, Lenore Kinne, Ellen Maddin, Rachel Noll, Bianca Prather-Jones, Sara Runge, Tammie Sherry, Lynne Smith, 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)

Business Education (5-12)

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 International Teaching Fellows 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 2.50 on a 4.00 scale (2.75 beginning fall 2012).
4. Earned a minimum of 45 semester hours of coursework.
5. Achieved the minimum score required by state regulations on an admission test (current options are a 21 composite on the ACT; 1470 combined [three parts] on the SAT; OR the following scores on the PPST: Reading 173; Writing 172; and Math 173).

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 2.50 on a 4.00 scale (2.75 beginning fall 2012).
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.

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 2.50 (2.75 beginning fall 2012).
2. Pedagogy (EDU and EDS courses) GPA of 2.50 (2.75 beginning fall 2012).
3. Content course GPA of 2.50 (2.75 beginning fall 2012).

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 2.50 (2.75 beginning fall 2012) 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 2.50 (2.75 beginning fall 2012) overall to graduate.

Degree Requirements: B.A. – Early Childhood 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 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
Core Credits in Teacher Education		51
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
Core Credits in Other Disciplines		19
TOTAL CORE CREDITS		70

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
TOTAL IECE CERTIFICATION TRACK CREDITS		Varies

Non-Certification Track		Credits
EDU 490	Non-certification Final Practicum	6
ENTP 150	Overview of Accounting	3
SWK 510	Child Abuse	3
Electives		Varies
TOTAL NON-CERTIFICATION TRACK CREDITS		Varies

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	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 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
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
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	3
<i>*Prerequisite: Math ACT 19 or MAHD 095</i>		
MAT 141	Mathematics for Elementary and Middle Grades Teachers II*	3
<i>*Prerequisite: Math ACT 20 or MAHD 091 and MAT 140</i>		
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		
Core Credits in Other Disciplines		39
TOTAL CREDITS		89

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 specializations: 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	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 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
Core Credits in Teacher Education		44
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
Core Credits in Other Disciplines		6
TOTAL CORE CREDITS		50
<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.

English/Communications Specialization		Credits
ENG 291	Advanced College Writing	3
ENG 208	Survey of American Literature I	3
OR		
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 213	Global Perspectives in Literature	
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	
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	3
OR		
CMST 310	Argumentation	
ENG 371	Traditional Grammar	3
TOTAL SPECIALIZATION CREDITS		24
Total Core Credits		50
TOTAL CREDITS		74

Social Studies Specialization		Credits
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	3
OR		
SOC 100	Introduction to Sociology	
TOTAL SPECIALIZATION CREDITS		24
Total Core Credits		50
TOTAL CREDITS		74

Mathematics Specialization		Credits
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	3
OR		
STA 212	Statistics for Business Applications I	

Select two mathematics courses from the following:		
MAT 109	Algebra for College Students	
MAT 112	Applied Calculus	
MAT 114	Finite Mathematics	
MAT 115	Mathematics for Liberal Arts	
MAT 119	Pre-Calculus Mathematics	6
MAT 128	Calculus A	
MAT 129	Calculus I	
MAT 185	Introductory Discrete Mathematics	
MAT 227	Calculus B	
TOTAL SPECIALIZATION CREDITS		24
Total Core Credits		50
TOTAL CREDITS		74

Science Specialization (All courses except elective must include a lab component)		Credits
BIO 120/120L	Understanding the Living World with Laboratory	4
CHE 105	Discovering Chemistry with Laboratory OR	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)	
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)	
<i>PHYSICAL SCIENCES:</i>		
PHY 211	General Physics I with Laboratory (5)	
PHY 213	General Physics II with Laboratory (5)	
CHE 396	Practicum: Chemistry Laboratory (1-2)	
<i>EARTH & SPACE SCIENCE:</i>		
GLY 120/120L	This Dangerous Earth with Laboratory (4)	
GLY 220	History of the Earth (3)	
AST 115	Stars, Galaxies, and Cosmology with Laboratory (4)	3-4
TOTAL SCIENCE CREDITS		24 or 28
Total Core Credits		50
TOTAL CREDITS		74 or 78
**Science Electives: If credit hour total for emphasis area is less than 24 hours, select additional elective hours from the list above.		
Special Education Specialization		Credits
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
Core Credits in Education		38-41
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
KIN 200	Concepts of Lifetime Fitness	2
PHE activity course or dance		1
Core Credits in Other Disciplines		9
TOTAL CORE CREDITS		47-50

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)	
Business Education (5-12)	
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)	
TOTAL CONTENT CREDITS	Varies

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
Credits in Special Education	15

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
Credits for Professional Semester III		11
Professional Semester IV – Student Teaching		
Select one of the following courses		
EDU 492	Student Teaching in Elementary School with Special Education Endorsement	
EDU 493	Student Teaching in Middle Grades with Special Education Endorsement	12
EDU 497	Student Teaching in Secondary School with Special Education	
Credits for Student Teaching		12
TOTAL CORE CREDITS		38

Additional Courses if Middle Grades Education with Special Education			Credits
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		3
MUS 260	Music Fundamentals and Skills for Classroom Teachers		3
Additional Credits if Middle Grades Education with Special Education			9
Total Core Credits			38
TOTAL CREDITS			47

Additional Courses if Secondary Education with Special Education			Credits
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		3
MUS 260	Music Fundamentals and Skills for Classroom Teachers		3
EDU 304	Reading and Writing Across the Curriculum: Middle Grades		3
Additional Credits if Secondary Education with Special Education			12
Total Core Credits			38
TOTAL CREDITS			50

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

Core Courses in Teacher Education (elementary pre- or in-service teachers)		Credits
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	
Credits in Teacher Education		6
Core Courses in Other Disciplines		
Complete required content courses for middle grades certification. Required courses will be determined by a review of the student's transcript.		
Other Credits		Varies
TOTAL CORE CREDITS		Varies

CORE COURSES IN TEACHER EDUCATION (Secondary pre- or in-service teachers)		Credits
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	
Credits in Teacher Education		9
CORE COURSES IN OTHER DISCIPLINES		
Complete required content courses for middle grades certification. Required courses will be determined by a review of the student's transcript.		
Other Credits		Varies
TOTAL CORE CREDITS		Varies

COLLEGE OF HEALTH PROFESSIONS

Location: Albright Health Center 206

Telephone: 859-572-5249

Fax: 859-572-1934

Email Address: healthprofessions@nku.edu

Web Address: <http://healthprofessions.nku.edu>

Dean: 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

Allied health department – alliedhealth@nku.edu

Advisors:

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.

Centers

Northern Kentucky Nursing Research Collaborative

Location: Albright Health Center 354

Telephone: 859-572-1939

Email Address: nknrc@nku.edu

Web Address: <http://www.nknrc.com/>

Director: Judi Frerick

Co-director: Kim Dinsey-Read

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

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

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
 Department 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)

Major:

Health Science (Bachelor of 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. When it comes to being part of a patient-care team attempting to diagnose or rule out disease or injury, it's easy to see that the role of the radiologic technologist is essential.

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."

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.

To be admitted, a student must have a minimum GPA of 2.50 for all college work attempted. Students accepted to the radiologic technology program must successfully pass a criminal background check prior to final admission.

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 specific technical standards related to physical and intellectual abilities.

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.

Some of the affiliated hospitals in the Northern Kentucky/Greater Cincinnati area are: 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).

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
Credits Required for Admission		14
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
Credits In Radiologic Technology		54
Courses in Other Disciplines		
BIO 209/209L	Human Anatomy and Physiology II with Laboratory	4
CSMT 101	Public Speaking	3
General Education: Self and Society Category		3
General Education: Culture and Creativity or Global Viewpoints Category		3
Credits in Other Disciplines		13
TOTAL CREDITS		81

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 physician, 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 physician's 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.
- Completion of a criminal background check upon acceptance into the program.

Applications completed prior to **February 15** are given priority. Conditional acceptance into the program can be given to students enrolled in any prerequisite course by the priority application date of **February 15**. Successful completion of these courses must be documented at the end of the term for final program admission. Students will be notified of their admission status in writing. Students who want to major in respiratory care but do not yet meet the above criteria should declare pre-respiratory care (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
Credits Required for Admission	10
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
Credits in Respiratory Care	42

Courses in Other Disciplines		
BHS 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
Credits in Other Disciplines		23
TOTAL CREDITS		75

Health Science Major

Bachelor of Science with a major in Health Science

The Bachelor of Science in Health Science degree is an interdisciplinary 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 at 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 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 no later than 6 months after completing the associate degree.

Special graduation requirements:

- A minimum grade of C or better for successful completion of major requirements.

- Verification of registry with appropriate professional organization.

You should also know: The Bachelor of Science in Health Science is delivered completely in the online format. Even the application for admission and the registration process are handled 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.

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.

Degree Requirements: B.S. – Health Science		Credits
HSC 410	Health Care Management	3
HSC 413	Aging in Today's Society	3
HSC 421	Healthcare Research*	3
<i>*Prerequisite: STA 205 Introduction to Statistical Methods or STA 212 Statistics for Business Applications I</i>		
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 305	Human Relations in Organizations	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 308	Leadership in Organizations OR	9
LDR 382	Organizational Change OR	
LDR 381	Organizational Ethics	
PSY 302	The Human Side of Work OR	
PSY 333	Abnormal Psychology*	
<i>*Prerequisite: PSY 100 Introduction to Psychology</i>		
CMST 303	Organizational Communication OR	
CMST 355	Cross-Cultural Communication	
Program Credits		30
Additional Prerequisite Credits		3
TOTAL CREDITS		33

Department of Nursing

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: Louise Niemer

ABS N Program Director: Kim Dinsey-Read

RN to BSN Program Director: Ann Keller

Advisors: Sallie Parker Lotz, Shane Talbott

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, Billie Jean Kosak, Caron Martin, Carrie A. McCoy, Louise Niemer, Catherine Pence, Kris Pfenndt, 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 500, 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 and 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 peer mentoring programs. 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: 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 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.

Applicants whose native language is other than English must demonstrate an established level of English proficiency by taking the Internet-based TOEFL (iBT) 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 2 years of application to the program.

Admission to nursing is provisional based on successful passage of the criminal background check administered through NKU's Department of Public Safety and minimum score on the TOEFL, if required.

Those with an RN degree should see the program requirements for the RN to BSN degree. Those 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.

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. These include 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 BN and ABSN students are required to 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, 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.

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.

Elective course "NRS 413: Aging in Today's Society" 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.

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 and 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, students 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 Advanced Nursing Studies. 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 GPA of 3.00 on a 4.00-point scale.
- 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). This requirement applies to BIO 120/120L, BIO 121, 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 208/298L, BIO 209/209L, CHE 115/115L or CHE 120/120L and CHE 121/121L. Grades of C- are not accepted for prerequisites 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) 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 2 years of application to the program.

- 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 interview may be requested by the nursing admission/readmission committee.

Acceptance into the nursing program is provisional pending successful completion of the criminal background check and TOEFL test, if applicable.

Licensed practical nurses are eligible to apply to the BSN program if they have graduated from a practical nursing program 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. 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 admission/readmission/promotion and 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.
- **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. Students may repeat only one semester of nursing. 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.
- **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 of \$100 will be assessed each semester 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 basis. Students must submit an application for readmission to the admission, progression, and graduation committee. A letter supporting the request for readmission must be attached to the application. This letter should outline strategies for success in the program. Students applying for readmission may be required to have an interview with the program director or faculty advisor. To be considered for readmission, the student must have 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 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." Students who have been dismissed from the nursing program are not eligible for readmission. (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.

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	2

	Practicum	
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
Credits in Nursing		69
Courses in Other Disciplines		
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 *	
OR		
STA 212	Statistics for Business Applications I*	3
PSY 220	Lifespan Development*	3
Credits in Other Disciplines		31
TOTAL CREDITS		100
*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
Credits in Nursing		71
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	
	OR	
STA 212	Statistics for Business Applications I	3
PHI 220	Health Care Ethics	3
PSY 220	Lifespan Development	3
Additional Prerequisite Credits		31
TOTAL CREDITS		102

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 ABSN program are advised to contact an advisor regarding admission requirements. Students admitted to the ABSN 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 ABSN 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 ABSN classes.
- 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.
- 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).
 - 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).

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 the past 4 years makes an applicant ineligible for the ABSN 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 of \$100 will be assessed each semester for this service.

Progression:

- Students admitted to the ABSN program are subject to the program requirements of the catalog in effect at the time of entry.
- Upon matriculation into the ABSN 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 B.S. 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	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
TOTAL CREDITS		69

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: Sallie Parker Lotz

Advisor: Shane Talbott

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.
- Hold current 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.

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.
- Maintain the minimum GPA required for progression (see RN to BSN handbook).

NKU College of Health Professions policy:

- **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 offered in a fully online format. Even the application for admission and the registration process are handled online. The format and timeline are flexible in consideration of the working practitioner.

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
Credits in Nursing		45
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
STA 212	Statistics for Business Applications I	3
PSY 220	Lifespan Development	3
PHI 200	Ethics	3
PHI 220	Health Care Ethics	3
Credits in Other Disciplines		45
TOTAL CREDITS		90

COLLEGE OF INFORMATICS

Location: Griffin Hall 500

Telephone: 859-572-5668

Fax: 859-572-6176

E-mail Address: informatics@nku.edu

Web Address: <http://informatics.nku.edu>

Interim Dean: Kevin Kirby

Other Key Personnel:

Associate Dean: Gaut Ragsdale

Executive Assistant: Sue Murphy

Welcome to the College of Informatics, home to a growing and energetic community of students, faculty, and staff. This community is guided by the philosophy that computing, human communication, information systems, and mass media are becoming more integrated and prominent in an increasingly digital world. While the list that follows is not inclusive, it reveals a variety of leading-edge topics spanning the four categories just mentioned: web development, software engineering, human-computer interaction, animation and digital video, online journalism, wireless and mobile computing, database management, software and network security, strategic communication, and project management.

At NKU, students can study and explore these topics in a single college – one of the few in the country like it – and in a new LEED-certified building filled with state-of-the-art laboratories and classrooms. The real brilliance of the college, though, is the ongoing nature and quality of interaction between faculty and students. Put simply, this unique college has a first-rate faculty who love what they do. They are accessible and eager to share their knowledge with students in a variety of contexts, including, but not limited to, classes, internships, co-ops, student organizations, research projects and academic conferences. Also, the college has an advising center to help students navigate successfully through their undergraduate career.

College Advising Center

Location: Griffin Hall 404 A-F

E-mail Address: Informaticsadvising@nku.edu

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

Faculty:

Business Informatics: Jim Hughes

Communication: Mark Miller

Computer Science: Jill Bruins

The advising center provides a full array of academic services to prospective and declared majors and minors in the college.

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

Web Address: <http://cai.nku.edu/>

Director: Tim Ferguson

The Center for Applied Informatics (CAI) serves as the college's community outreach organization. CAI's mission is to impact the learning of the college's students via applied learning with real-world projects. Through student-based projects, CAI assists organizations throughout the world with their technology needs and emerging information technology challenges. CAI promotes collaboration between organizations as a way to find innovative solutions to emerging challenges. CAI provides an entry point for the private sector to access not only student majors, but also the entire range of intellectual and physical resources available at the university in the area of informatics. CAI offers expertise in the following areas: web, mobile and application development, IT governance and assessment, multimedia and communication programs.

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:

Library Informatics Program Coordinator: Leslie Hammann

MBI Program Director: Vijay Raghavan

MHI Program Director: Hasan Sapci

MHI Program Coordinator: Vacant

Department Coordinator: Marilyn McGinley

Academic Advisor: Jim Hughes

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 analytics and developing dashboards.

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 edge they will need to capture the top jobs and start their careers in business, government institutions, educational organizations, health-care facilities, and other production and service organizations.

Systems careers (for example, business analysts) are projected to be 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*	3
<i>*Prerequisite: MAT 109 or ACT >23</i>	
CMST 101 Public Speaking	3
ACC 200 Principles of Accounting I*	3
<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
Credits for Selective Admission	30

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
Credits for Business Core		30
Courses in Business Informatics		
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	9
BIS 382	Principles of Information Security (Prerequisite: BIS 300)	
BIS 394	Topics: Information Systems	
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	
BIS 494	Topics: Information Systems	
Credits in Business Informatics		33
Additional Prerequisite Credits		3-6
TOTAL CREDITS		96-99

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 professional 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 more information more

effectively. Examples of specific course topics include the subject classification systems, metadata programs, information policy, information entrepreneurship, preservation of original sources, and the unique organizational demands of multiple media materials.

- **Accessing information:** Coursework will guide students in the development of effective and efficient information retrieval and will build skills to devise effective search strategies for a wide variety of database structures and search engine protocols. Examples of specific course topics include the use of tertiary reference guides to streamline information seeking; publication and dissemination cycles; the structure of information searches to retrieve specific information characteristics; cost-benefit analyses of information searches; and ethical and legal issues in using information.
- **Assessing information:** Course content centers on evaluating usability, reliability, and sufficiency of information sources. Specific study would include applying critical thinking skills to the analysis of resources; matching information sources to specific audience needs; judging the relative value of various information packages; and evaluating decision-making models using data and opinion sources.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite, 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 *	3
<i>*Prerequisites: STA 205 Introduction to Statistical Methods OR STA 212 Statistics for Business Applications I</i>		
Select three courses from the following:		
LIN 305	Government Information	9
LIN 394	Topics	
LIN 405	Intellectual Property and Information Rights	
LIN 420	Management in Library and Information Centers	
PHI 210	Ethics of Information Technology	
JOU 385	Mass Communication Law	
JOU 440	Media Ethics	
BIS 410	Advanced Analysis and Design	
BIS 420	Knowledge Management and Enterprise Applications	
BIS 435	Database Management Systems	

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
Program Credits	66
Additional Prerequisite Credits	3
TOTAL CREDITS	69

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*	3
<i>*Prerequisite: STA 212 Statistics for Business Applications I</i>	
Select one course from the following:	
INF 186 Media Web Coding	
INF 284 Introduction to Networks and Data Communication	3
INF 286 Introduction to Web Development	
Select 9 credits from the following:	
BIS 305 Advanced Business Programming	
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	9
BIS 420 Knowledge Management and Enterprise Applications	
BIS 430 Workflow Design and Management	
BIS 435 Database Management Systems	
BIS 440 Global Information Technology Management	
Program Credits	21
Additional Prerequisite Credits	3
TOTAL CREDITS	24

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
TOTAL CREDITS			12

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
TOTAL CREDITS			18

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 *		3
<i>*Prerequisite: STA 212 Statistics for Business Applications I</i>			
BIS 330	IT Project Management		3
BIS 440	Global Information Technology Management		3
BIS 485	Strategic Information Systems Management		3
Program Credits			15
Additional Prerequisite Credits			3
TOTAL CREDITS			18

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: Rachel Lyon

Other Key Personnel:

Vice Chair and Director of Norse Media: Christopher Strobel

Undergraduate Studies Director: Andrea South

Graduate Studies Director: Jimmie Manning

Department Coordinator: Randy Little

Academic Assistant: Christa Kilvington

Academic Advisor: Mark Miller

Full-Time Faculty: Wesley Akers, Matthew Baker, Tony Chowning, Mary Cupito, Michele Day, Gregory De Blasio, Sara Drabik, John Gibson, Zachary Hart, Renee Human, Stephanie Klatzke, Yasue Kuwahara, Mark Leeman, Jimmie Manning, Jacqueline McNally, Russell Proctor, Vicki Ragsdale, Bradford Scharlott, J. Michael Skaggs, Karen Slawter, Andrea South, Christopher Strobel, Penelope Summers, Ann Taylor, David Thomson, Leesha Thrower, Steven Weiss, Stephen Yungbluth

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
CMST 340	OR Strategies of Persuasion	
CMST 355	Cross-Cultural Communication	3
CMST 370	Advanced Public Speaking	3
CMST 410	Rhetorical Theories	3
CMST 430	OR Communication Theories	
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	
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	6
INF 186	Media Web Coding	
MIN 221	Visual Design for Digital Media	
MIN 240	Introduction to Interactive Media	
JOU 321	Digital Publishing	
TOTAL CREDITS		39
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	
	OR	3
EMB 265	Broadcast News Writing	
EMB 396	Internship: Electronic Media and Broadcasting	
	OR	3
EMB 397	Projects	

EMB 400	Media Criticism	3
	OR	
EMB 435	Media Studies	
Conceptual Studies Courses – select two of the following courses:		
CMST 220	Interpersonal Communication	
CMST 303	Organizational Communication	6
CMST/	Communication Theories	
EMB 430/		
PSY 304	Consumer Psychology	
Practical Courses – select two of the following courses:		
EMB 305	Multicamera Video Production	
EMB 320	Advanced Sound Production	
EMB 421	Advanced Narrative Production	6
EMB 422	Advanced Digital Video Editing	
EMB 423	Documentary Production	
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	6
JOU 385	Mass Communication Law	
JOU 440	Media Ethics	
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
TOTAL CREDITS		48

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)	3
JOU 396 Internship (3 credits)	
CEP 300 Cooperative Education (1-3 credits)	
Select four courses from the following:	
JOU 321 Digital Publishing	12
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	
TOTAL CREDITS	
39	

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 Design for 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	9	
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)		
TOTAL CREDITS		
45		

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
	OR	
EMB 100	Media Literacy	
JOU 220	News Writing	3
	OR	
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
	OR	
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
	OR	
JOU 492	Mass Communication Research Methods	
PRE 377	Public Relations Case Studies and Campaigns	3
PRE 394	Topics in Public Relations	3
	OR	
Any 300- or 400-level elective in CMST, EMB, JOU, MIN or POP		
Applied Experiential Credit from PRE 396 Internship		
	OR	3
PRE 499	Independent Study in Public Relations	
TOTAL CREDITS		42

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
TOTAL CREDITS		21
EMB minors must earn a grade of C 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
TOTAL CREDITS		21
JOU minors must earn a grade of C or above or a GPA of at least 2.50 or above in all courses for the minor.		

Minor in Media Informatics

Requirements for Minor: Media Informatics		Credits
INF 186	Media Web Coding	3
MIN 221	Visual Design for 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	
TOTAL CREDITS		21

Department of Computer Science

Location: Griffin Hall 400

Telephone: 859-572-6930

Fax: 859-572-5398

E-mail Address: compsci@nku.edu

Web Address: http://cs.nku.edu

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: Maureen Doyle
 Academic Advisor: Jill Bruins
 Computing Laboratory Manager: Lee Weiner
 Department Coordinator: Connie Eblin

Full-Time Faculty: Alina Campan, Scot Cunningham, Maureen Doyle, Richard Fox, Charles Frank, Wei Hao, Yi Hu, Hetal Jasani, Kevin Kirby, 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 a 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. Informatica, 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 mathematics ACT score of at least 22 for computer information technology majors and 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, nontraditional 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	3
Core Credits in Informatics		6-9
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
Core Credits in Computer Information Technology		15
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

Core Credits in Other Disciplines		9- 12
TOTAL CORE CREDITS		30- 36
*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 competency tests in these subjects. Students who pass these tests will not be required to take "INF 120: Elementary Programming."		
**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.		

Network / Security Track		Credits
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
TOTAL TRACK CREDITS		21
Total Core Credits		30-36
TOTAL CREDITS		51-57

Database / Web Track		Credits
MIN 221	Visual Design for Digital Media	3
INF 260	Object-Oriented Programming I	3
CSC 360	Object-Oriented Programming II OR	3
CIT 483	Scripting II	
CSC 301	Web Programming	3
CIT 436	Web Server Administration	3
CIT 472	Database Server Administration	3
CSC 456	Advanced Web Application Development OR	3
One additional 300- or 400-level CIT course		
TOTAL TRACK CREDITS		21
Total Core Credits		30-36
TOTAL CREDITS		51-57

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

Courses in Informatics		Credits
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 OR	3
CIT 247	Networking Fundamentals	
INF 286	Introduction to Web Development	3
Credits in Informatics		12-15
Courses in Computer Science		
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
Credits in Computer Science		33
Courses in Other Disciplines		
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
Credits in Other Disciplines		15-21
TOTAL CREDITS		60-69
*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 competency tests in these subjects. Students who pass these tests will not be required to take INF 120 (Elementary Programming).		
**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 earned at least a C- in MAT 109 or 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 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.

Requirements for Minor: Information Technology		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 271	Windows Administration	3
CIT 371	Unix Systems	
One additional CIT course at the 300 or 400 level		3
6 credit hours of INF, CIT, or CSC courses not counted above		6
TOTAL CREDITS		18-24
*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 competency tests in these subjects. Students who pass these tests will not be required to take INF 120 (Elementary Programming).		

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
TOTAL CREDITS		27-33

*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 competency tests in these subjects. Students who pass these tests will not be required to take INF 120 (Elementary Programming).

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	Data Structures and Algorithms	
6 credit hours of CSC courses not counted above		6
TOTAL CREDITS		15-24
*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 earned at least a C- in MAT 109 or 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 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 competency tests in these subjects. Students who pass these tests will not be required to take INF 120 (Elementary Programming).		

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 OR	3
STA 250	Probability and Statistics I	
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	
TOTAL CREDITS		27-33
*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 competency tests in these subjects. Students who pass these tests will not be required to take INF 120 (Elementary Programming).		

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.

Requirements for Certificate: Software Development		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	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	
TOTAL CREDITS		18-27
*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 earned at least a C- in MAT 109 or 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 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 competency tests in these subjects. Students who pass these tests will not be required to take INF 120 (Elementary Programming).		

PRE-PROFESSIONAL AND INTERDISCIPLINARY PROGRAMS

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	4 or 3
MAT 112	Applied Calculus (biology only)	
Gen Ed:	Written Communication	3
BIO 150/150L	Introduction to Biology I with Lab	4
TOTAL		14 or 15

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
TOTAL		14 or 16

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.
- 1 year of university 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 (biochemistry track). However, regardless of the major a student chooses, the requirements for entry into medical school are met by completing the courses listed below. It is recommended that non-science majors complete several electives at the 300 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
	OR	
MAT 112	Applied Calculus (biology only)	
Gen Ed:	Written Communication	3
BIO 150/150L	Introduction to Biology I with Lab	4
TOTAL		14 or 15

Spring Semester		
CHE 121/121L	General Chemistry II with Lab	4
MAT 229	Calculus II (chemistry)	5 or 3
	OR	
STA 205	Introduction to Statistical Methods (biology)	
Gen Ed:	Oral Communication	3
BIO 151/151L	Introduction to Biology II with Lab	4
TOTAL		14 or 16

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
TOTAL		15 or 14

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
TOTAL		14

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
TOTAL		17

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
TOTAL		16

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
TOTAL		15 or 14

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
TOTAL		14

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	
	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
TOTAL		14 or 15

Spring Semester		
CHE 121/121L	General Chemistry II with Lab	4
MAT 229	Calculus II (chemistry)	
	OR	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
TOTAL		14 or 16

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 153

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,

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	3
	<i>*Prerequisite: ENG 101 College Writing or ENG 151H Honors College Writing</i>	
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	3
	Directed research	
	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
	Program Credits	76-82
	Additional Prerequisite Credits	3
	TOTAL CREDITS	79-85

Integrative Studies

Location: Steely Library 410 and Founders Hall 330

Telephone: 859-572-5494; 859-572-1450

Fax: 859-572-1444

E-mail Address: IST@nku.edu

Web Address: <http://ist.nku.edu>

Program Director: Bill Attenweiler

Faculty 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.
- Free 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 OR	3
PSC 103	International Politics	
PSC 470	The Post-Cold War World	3
Credits in Political Science and Criminal Justice		6
Core Courses in Other Disciplines		
ANT 100	Cultural Anthropology	3
ECO 200	Principles of Macroeconomics	3
GEO 101	World Regional Geography OR	3
GEO 103	Geography of the Third World	
Core Credits in Other Disciplines		9
TOTAL CORE CREDITS		15

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.

African Option		Credits
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
TOTAL OPTION CREDITS		21
Total Core Credits		15
TOTAL CREDITS		36

Asian Option		Credits
ANT 385	Peoples of East and Southeast Asia	3
ARTH 104	Survey of Asian Art	3
GEO 410	Geography of Asia	3
HIS 330	Jewish History	3
HIS 331	History of Japan	3
PHI 250	Eastern Philosophy	3
POP 345	Japanese Popular Culture	3
TOTAL OPTION CREDITS		21
Total Core Credits		15
TOTAL CREDITS		36

Business Option		Credits
Select seven courses from the following:		
ACC 200	Principles of Accounting I - Financial	
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	21
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	
TOTAL OPTION CREDITS		21
Total Core Credits		15
TOTAL CREDITS		36

European Option		Credits
Select seven courses from the following:		
ANT 370	Celtic Europe	
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	
HIS 308	Modern Europe 1870-1920	21
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	
TOTAL OPTION CREDITS		21
Total Core Credits		15
TOTAL CREDITS		36

Latin American Option		Credits
Select seven courses from the following:		
ANT 245	Latin American Societies	
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	21
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	
TOTAL OPTION CREDITS		21
Total Core Credits		15
TOTAL CREDITS		36

Social Science Option		Credits
Select seven courses from the following:		
ANT 201	World Cultures	
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	21
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 250	Religion and Ethics	
REL 305	Islam	
TOTAL OPTION CREDITS		21
Total Core Credits		15
TOTAL CREDITS		36

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
TOTAL CORE CREDITS		6

Classics and Near Eastern Track		Credits
LAT 201	Intermediate Latin I*	3
<i>*Prerequisite: LAT 102 Elementary Latin II or equivalent</i>		
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	

HIS 365	Death of Constantine European Military History: Ancient World to the Renaissance	9	
HIS 494	Topics: History (if a classics or Near East topic)		
HIS 594	Special Topics in History (if a classics or Near East topic)		
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 181	Survey of the Hebrew Bible/Old Testament		
REL 182	Survey of the New Testament		
REL 185	Survey of Christianity		
REL 186	Introduction to Judaism		
REL 301	Ancient Religions		
TAR 346	History of the Theatre and Dramatic Literature I		
TOTAL TRACK CREDITS			15
Total Core Credits			6
TOTAL CREDITS			21

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 181	Survey of the Hebrew Bible/Old Testament	
REL 182	Survey of the New Testament	
REL 185	Survey of Christianity	
REL 186	Introduction to Judaism	
REL 301	Ancient Religions	
TAR 346	History of the Theatre and Dramatic Literature I	
TOTAL TRACK CREDITS		15
Total Core Credits		6
TOTAL CREDITS		21

World Civilizations Track		Credits
Select 15 credits from the following. Courses must come from at least two different disciplines.		
ANT 110	Introduction to Archaeology	15
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	
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)	

General Track		Credits
Select 15 credits from the following. Courses must come from at least two different disciplines.		
ANT 110	Introduction to Archaeology	15
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	
PSC 370	Ancient Political Theory	
PSC 394	Topics: Politics (if an ancient civilizations topic)	
REL 181	Survey of the Hebrew Bible/Old Testament	
REL 182	Survey of the New Testament	
REL 185	Survey of Christianity	
REL 186	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	
TOTAL TRACK CREDITS		15
Total Core Credits		6
TOTAL CREDITS		21

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: (vacant)

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 496	Practicum: History (when topic is applicable)	
HIS 499	Independent Study: History (when topic is applicable)	
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)	
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 322	Philosophy of Race	
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 (when topic is applicable)	
Select one additional course from the three sets of options above		
TOTAL CREDITS		24

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 (if Celtic Studies topic)	
ANT 372	Peasant Societies	
ANT 376	Irish Society Through Film	
ANT 394	Topics: Anthropology (if Celtic Studies Topic)	
ANT 594	Topics: Anthropology (if Celtic Studies Topic)	
ENG 200	Understanding Literature (if Celtic Studies Topic)	
ENG 201	Ideas in Literature (if Celtic Studies Topic)	
HIS 353	British History to 1485	
HIS 486	History of Modern Ireland	
HIS 494	Topics: History (if Celtic Studies Topic)	
HIS 594	Special Topics in History (if Celtic Studies Topic)	
REL 301	Ancient Religions	
PHI 394	Topics: Philosophy	
PSC 330	Politics of Europe	
PSC 394	Topics: Politics (if Celtic Studies Topic)	
Other appropriate courses (with permission, if Celtic Studies emphasis)		9
TOTAL CREDITS		21

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 250	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 250	Religion and Ethics	
PHI 350	Philosophy of Religion	
PSC 410	International Political Economy	
TOTAL MINIMUM CREDITS		23

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)	
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	
JUS 319	Criminal Justice in Film	
PSC 320	American Politics in Film	
TOTAL CREDITS		21

Environmental Studies

Location: Herrmann Science Center 153
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	
	OR	
ENV 110	Introduction to Environmental Science and Issues	3
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>		
ENV Electives		12
Program Credits		22
Additional Prerequisite Credits		3
TOTAL CREDITS		25

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 for 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*	3
<i>*Prerequisite: BIO 120/120L Understanding the Living World with Laboratory</i>		
GLY 225	Prehistoric Life	3
PSY 301/ HNR 301	Evolutionary Psychology*	3
<i>*Prerequisite: PSY 100 Introduction to Psychology</i>		
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	6
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**	
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
Program Credits		25
Additional Prerequisite Credits		7
TOTAL CREDITS		32
**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: David Emery

Administrative Specialist: Rita Thomas

Full-Time Faculty: Jodi Ferner, Ali Godel, 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	3
PSC 102	Comparative Politics	
OR		
PSC 103	International Politics	3
PSC 470	The Post-Cold War World	
6 semester hours of elective courses chosen in consultation with the chair of the Department of Political Science and Criminal Justice		6
TOTAL CREDITS		21

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 350	Methods of Teaching Japanese		
JPN 380	Topics in Advanced Japanese		
GEO 410	Geography of Asia		
HIS 331	History of Japan		
PHI 250	Eastern Philosophy		
PSC 394	Topics: Politics (Japanese Topic)		
REL 250	Religion and Ethics		
POP 394	Topics: Popular Culture		
TOTAL CREDITS			26

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		
TOTAL CREDITS			21

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 Director: 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	3
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)	
HIS 499	Independent Study: History (if medieval or Renaissance topic)	15
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 185	History of Modern and Contemporary Philosophy	
PSC 370	Ancient Political Theory	
TOTAL CREDITS		21

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	
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	23
<i>*Prerequisite: PSC 100, 101, 102, 103, 110 or 111</i>		
PSC 486	Conflict and Security	
<i>*Prerequisite: PSC 100, 101, 102, or 103</i>		
PSC 394	Topics: Politics (Middle Eastern topic)	
<i>*Prerequisite: PSC 100, 101, 102, or 103</i>		
REL 181	Survey of the Hebrew Bible/Old Testament	
REL 182	Survey of the New Testament	
REL 186	Introduction to Judaism	
REL 305	Islam	
TOTAL CREDITS		23

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>		
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	
HIS 329	History of the Middle East and North Africa	6
PSC 394	Topics: Politics (if international focus)	
REL 305	Islam	
Program Credits		30
Additional Prerequisite Credits		6
TOTAL CREDITS		36

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/	World Patterns of Race and Ethnicity	
SOC 301		
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
TOTAL CREDITS		21

Neuroscience

Location: Mathematics Education Psychology Center 337

Telephone: 859-572-5591

Fax: 859-572-6085

Email Address: bardgett@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	3
CSC 325	Introduction to Neural Networks and Artificial Intelligence	
PSY 338	Cognitive Processes	
Select four courses from the following*:		
ANT 202	Introduction to Physical Anthropology	12
ANT 275	Language and Culture	
ANT 363	Language and Thought	
ANT 371	Psychological Anthropology	
BIO 245	Neurobiology	
BIO 349	Genetics	
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
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

OR

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 **OR**
- MKT 308 Integrated Marketing Communication
- PSY 315 Psychology of Human Sexuality
- PSY 304 Consumer Psychology
- PSY 340 Social Psychology **OR**
- SOC 303 Social Psychology
- PSY 345 Human Factors Psychology **OR**
- 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 **OR**
- 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

TOTAL CREDITS 21

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.

Requirements for Minor: Pre-Law		Credits
JUS 210	Legal Research	3
PHI 165	Intro to Logic	3
ECO 301	Intermediate Microeconomics	3
ENG 331	Persuasive Writing	3
OR		
ENG 340	Business Writing	
Select one of the following courses:		
ENG 301	American Novel	3
ENG 306	Multicultural American Literature	
ENG 315	Bible as Literature	
Select one of the following courses:		
HIS 311	The War for Independence and the Constitution 1763-1789	3
HIS 312	Federalist United States, 1789-1828	
HIS 589	Anglo-American Legal History	
JUS 302	Criminal Law*	3
<i>*Prerequisite: JUS 101 or 203</i>		
JUS 303	Criminal Procedure*	3
<i>*Prerequisite: JUS 101 or 203</i>		
OR		
JUS 313	Rights of the Convicted*	3
<i>*Prerequisite: JUS 101 or 201</i>		
PHI 320	Social and Political Philosophy	3
OR		
PHI 330	Philosophy and the Law	
PSC 304	Introduction to the Law*	3
<i>*Prerequisite: PSC 100, 101, 102, 103, 110 or 111</i>		
PSC 305	The Judicial Process	3
<i>*Prerequisite: PSC 100, 101, 102, 103, 110 or 111</i>		
PSC 307	Constitutional Law*	3
<i>*Prerequisite: PSC 100, 101, 102, 103, 110 or 111</i>		
OR		
PSC 308	Civil Liberties*	3
<i>*Prerequisite: PSC 100, 101, 102, 103, 110 or 111</i>		
Select one of the following courses:		
PCS 480	International Law*	3
<i>*Prerequisite: 6 semester hours of introductory political science courses.</i>		
PSC 309	Law of Mass Communication*	3
<i>*Prerequisite: PSC 100, 101, 102, 103, 110 or 111</i>		
PSC 394	Topics: Politics (with coordinator approval)	

PSY 340	Social Psychology	3
OR		
SOC 303	Social Psychology	3
SOC 305	Criminology	
OR		
SOC 381	Deviance and Social Control	
Program Credits		45
Additional Prerequisite Credits		6
TOTAL CREDITS		51

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
Program Credits		12
Additional prerequisite requirements (PSC 100)		3
TOTAL CREDITS		15

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 181	Survey of the Hebrew Bible/Old Testament	6
REL 182	Survey of the New Testament	
REL 185	Survey of Christianity	
REL 186	Introduction to Judaism	
REL 200	World Religions and Cultures	
REL 305	Islam	
REL 394	Topics: Religious Studies (when topic applies)	6
PHI 250	Eastern Philosophy	
PHI 304	Zen	
Category B: Philosophical, Ethical, and Theological Perspectives – select 3 credits from the following:		
REL 250	Religion and Ethics	3
REL 260	Human Religious Experience	
REL 330	Contemporary Religious Thought	
REL 325	African-American Religious Experience in America	
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 325	African-American Religious Experience 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	3
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.		9
TOTAL CREDITS		21

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
HIS 557	History of Indians of the United States	
ANT 330	Women, Gender, and Culture	3
WGS 250	Introduction to Gender Studies	
SOC 300	Race and Ethnic Relations	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	6
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	
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	
JUS 231	Race, Gender, and the Law	

PHI 323	Peace and War	
PHI 325	Philosophy of Nonviolence	
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	
Total Credits		21

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: Mary Bucklin, Department of History and Geography

Other Key Personnel:

Department Coordinator: Janice Rachford

Secretary: Lou Stuntz

Women's and Gender Studies Minor

The women's and gender studies program offers both an undergraduate minor and an area of concentration. Through a cohesive curriculum grounded in feminist theory, students earning a minor in women's and gender studies will explore the intersections among sex/gender and other social and cultural identities, including, but not limited to, sexuality, race, ethnicity, class, and religion; critically examine traditional disciplines through the lens of gender; and engage in integrative scholarship using feminist concepts and perspectives. The women's and gender studies program is multidisciplinary, with its faculty drawn from diverse programs throughout the university, offering students a rich variety of disciplinary approaches to feminism and gender studies.

The minor in women's and gender studies requires a total of 21 semester hours, at least 12 of which must be completed at the 300 level or above

Students must achieve a C or better in all courses that apply to the minor.

Requirements for Minor: Women's and Gender Studies		Credits
Select two courses from the following:		
WGS 150	Introduction to Contemporary Gender Issues	6
WGS 494	Seminar: Women's and Gender Studies	
WGS 499	Independent Study: Women's and Gender Studies	
Select five courses from the following. No more than two courses in the same discipline (i.e., with the same prefix) may count toward the minor.		
ANT 330	Women, Gender, and Culture	
ARTH 349	Women and Art	
EDU 316	Racism and Sexism in Educational Institutions	
ENG 211	Survey of Women's Literature I	
ENG 212	Survey of Women's Literature II	

ENG 300	American Women Poets	
ENG 305	American Women Writers	
ENG 465	Southern Women Writers	
HIS 444	History of Women in the United States to 1900	
HIS 445	History of Women in the United States since 1900	
HIS 546	History of the American Family	
JUS 231	Race, Gender, and the Law	
JUS 429	Women in Criminal Justice	
PHI 170	Philosophy and Sexuality	
PHI 311	Philosophy of Women	
PHI 360	Topics in Environmental Philosophy (when offered as Environmental Feminism)	
PSY 201	Psychology of Race and Gender	
PSY 205	Psychology of Human Sexuality	
SOC 110	Introduction to Race and Gender	
SOC 315	Marriage and the Family	
SOC 350	Women and Crime	
SWK 307	Human Behavior and the Social Environment II	
SWK 520	Services to Women	
WGS 211	Survey of Women's Literature I	
WGS 212	Survey of Women's Literature II	
WGS 250	Introduction to Gender Studies	
WGS 310	Women, Wages, and Work	
WGS 311	Philosophy of Women	
WGS 317	Gender and Communication	
WGS 350	Perspectives in Feminist Theory	
WGS 381	Women in Literature	
WGS 382	Women and Society	
WGS 383	Women and World Cultures	
WGS 384	Women, Nature, and the Inner Self	
WGS 387	Women and the Arts	
WGS 388	African-American Women's History and Culture	
WGS 444	History of Women in the United States to 1900	
WGS 445	History of Women in the United States since 1900	
TOTAL CREDITS		21

15

Other courses may apply toward the minor or area of concentration in women's and gender studies at the discretion of the program director.

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. At least two of the courses must be WGS courses; others may be from the set of approved courses listed above for the minor. Students completing the area of concentration should note that "WGS 150: Introduction to Contemporary Gender Issues" and "WGS 250: Introduction to Gender Studies" are likely to be prerequisites for 300-level courses. 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 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	3
GEO 518	Geographic Information Analysis	
CIT 352	Geographic Databases	
GEO 552	Spatial Databases	
Two of the following courses not counted above:		
GEO 314	Maps and Map Interpretation	6
GEO 419	Remote Sensing of the Environment	
GEO 518	Geographic Information Analysis	
CIT 352	Geographic Databases	
CSC 440	Software Engineering	
CSC 450	Database Management Systems	
CSC 480	Computer Graphics	
CIT 472	Database Administration	
BIS 330	IT Project Management	
TOTAL CREDITS		15

COURSE DESCRIPTIONS

Accounting Courses (ACC)

ACC 150 Overview of Accounting (3 credits)

Taught: Variable, check with department
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. Not open to students with credit for ACC 200 or ACC 201. Same as ENTP 150.

ACC 200 Principles of Accounting I - Financial (3 credits)

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)

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)

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)

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)

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 pronouncements 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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

Prerequisites: ACC 600.

Taught: Fall and spring
Principles, standards, and procedures in conduct of an audit by CPA; functions and responsibilities; internal control; statistical sampling, audit report; special problems of auditing electronic data processing systems; account verification; ethics. Open only to students certified as majoring in business or by consent of instructor. Assessment test is given.

ACC 520 Tax Planning (3 credits)

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.

ACC 530 Accounting for Non-Profit Institutions (3 credits)

Prerequisites: Admission to the MACC program, ACC 301 or graduate equivalent, or permission of the MACC director.

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 nonprofit (including governmental) organization.

Anthropology Courses (ANT)

ANT 100 Introduction to Cultural Anthropology (3 credits)

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

General education credit: Cultural Pluralism

ANT 100H Honors Introduction to Cultural Anthropology (3 credits)

Taught: Spring only
Definition and nature of culture, its content and structure (e.g., kinship, politics, and religion); basic field methods; emphasis on non-Western cultures.

General education credit: Individual and Society

General education credit: Global Viewpoints

ANT 110 Introduction to Archaeology (3 credits)

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 (3 credits)

Taught: Summer only
Great archaeological sites and discoveries around the world and their significance to global heritage.

General education credit: Global Viewpoints

ANT 201 World Cultures (3 credits)

Taught: Fall and spring
Survey of world cultures, primarily non-literate, using various anthropological approaches; development from simple to more complex cultural systems.

General education credit: Cultural Pluralism

ANT 202 Introduction to Physical Anthropology (3 credits)

Corequisites: 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)

Corequisites: 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)*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)*Taught: Summer only*

Archaeological excavation methods; excavation at an archaeological site; excavation, recording, mapping, analysis. Three semester hours if taught during intersession; 4 if taught during 5-week session.

ANT 230 North American Indians (3 credits)*Taught: Fall only*

Origin; traditional ways of life; current position in American society.

General education credit: Cultural Pluralism

ANT 231 Modern American Indians (3 credits)*Taught: Spring only*

Current problems faced by Indian populations in North America; history of Indian-white and Indian-black relations; relations to federal government.

General education credit: Cultural Pluralism

ANT 245 Peoples of Latin America and the Caribbean (3 credits)*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.

General education credit: Cultural Pluralism

ANT 270 Native Australia and Oceania (3 credits)*Taught: Spring only*

Origin; traditional ways of life of native peoples of Australia, Polynesia, Micronesia, and Melanesia; modern conditions.

General education credit: Cultural Pluralism

ANT 273 Race, Gender, and Culture (3 credits)

Taught: Fall, winter, spring and summer
French Major Race and gender as complex historical and cultural

constructs; focus on the legacy of slavery involving racialized, sexualized, gendered and class-based identities. Develop understanding of contemporary racial/gender identities and interrelationships.

ANT 275 Language and Culture (3 credits)*Prerequisites: ANT 100.**Taught: Fall 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)*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)*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)*Prerequisites: ANT 210.**Taught: Spring only-even years*

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 310 African Arts (3 credits)*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 312 Social Organization (3 credits)*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)*Prerequisites: ANT 100.**Taught: Spring only-odd years*

Examines the modern contributions of cultural ecology, ethneology, and evolutionary ecology towards understanding ecosystem and cultural connections between human populations and their environment.

ANT 318 Prehistoric Ecology (3 credits)*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)*Prerequisites: ANT 100 or ANT 201.**Taught: Spring only-even years*

Anthropological approaches to the study of religion, religious beliefs, and practices of selected non-Western and western cultures.

ANT 325 Applied Anthropology (3 credits)*Prerequisites: ANT 100.**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)*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)

Prerequisites: 3 hours of anthropology or consent of instructor.

Taught: Spring only-odd years

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)

Prerequisites: ANT 215.

Taught: Summer only

Further experience in excavation, recording, mapping; excavation at an archaeological site. Three semester hours if taught during intersession; 4 if taught during 5-week session.

ANT 336 Historical Archaeology (3 credits)

Prerequisites: 3 hours of anthropology or history.

Taught: Spring only-odd years

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 (3 credits)

Prerequisites: ANT 100, junior standing or consent of instructor.

Corequisites: ANT 339.

Taught: Spring only

Each student conducts an individual ethnographic research project to be completed during the semester.

ANT 342 Quantitative Methods in Anthropology (4 credits)

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)

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)

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)

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)

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)

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)

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)

Prerequisites: ANT 100 and junior standing.

Taught: Spring only-even years

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)

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)

Prerequisites: ANT 100.

Taught: Spring only-even years

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)

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)

Prerequisites: 3 semester hours of anthropology.

Taught: Spring only-odd years

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)

Prerequisites: ANT 100.

Taught: Spring only-odd years

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)

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)

Taught: Spring only-even years

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 385 Peoples of East and Southeast Asia (3 credits)

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 392 Research: Archaeology (1-6 credits)

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)

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)

Prerequisites: ANT 312.

Taught: Spring only-odd years

Development of the discipline; major theoretical and anthropological contributions.

ANT 410 Archaeological Theory (3 credits)

Prerequisites: ANT 210.

Taught: Spring only-even years

Theoretical bases of archaeological research; research design, analysis, and interpretation; socio-cultural reconstruction.

ANT 460 Research Practicum Preparation (1 credit)

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)

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)

Taught: Variable, check with department

Continuation of ANT 391. Same as SOC 491.

ANT 499 Independent Study in Anthropology (1-6 credits)

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)

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)

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 (3 credits)**

Taught: Fall only

Fundamentals; introduction to the Arabic alphabet and development of skills in grammar, pronunciation, conversation, and reading.

General education credit: Culture and Creativity

ARI 102 Elementary Arabic II (3 credits)

Taught: Spring only

Continuation of Arabic 101.

ARI 201 Intermediate Arabic I (3 credits)

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)

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)

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)

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)

Prerequisites: ARI 380 or equivalent.

Taught: Variable, check with department
Various literary, linguistic, cultural, and ped-agogical topics. May be repeated for credit when topic varies.

Art Courses (ART)

ART 100 Art Appreciation (3 credits)

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 123 Foundations: Studio I (3 credits)

Prerequisites: ART 210.

Enrollment restricted to ART MAJORS ONLY.

Taught: Fall, spring, and summer
Introduction and investigation of elementary aspects of making and understanding visual art, both 2 & 3 dimensionally. Development of personal articulation both visually and verbally through research, documentation, critical thinking, and utilization of the "Design Process. Outside research will lend context to studio activity.

ART 124 Foundations: Studio II (3 credits)

Prerequisites: ART 123, ARTD 210.

Corequisites: ART 111.

Taught: Fall, spring, and summer
Continuation of ART 123; addressing issues of expression, interpretation; use of narrative and symbolism; investigations include experimental forms of art.

ART 131 Basic Drawing (3 credits)

Corequisites: ART 132.

Enrollment restricted to ART majors only.

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.

ART 132 2-Dimensional Studies/Visual Art (3 credits)

Corequisites: ART 131.

Enrollment restricted to ART majors only.

Taught: Fall, spring, and summer

This course is an intro 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 will provide the foundation for subsequent studio course work and the development of artistic practice.

ART 133 3-Dimensional Studies/Visual art (3 credits)

Prerequisites: ART 131 and ART 132.

Corequisites: ART 134.

Taught: Fall, spring, and summer

Intro and investigation of 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)

Prerequisites: ART 131 and ART 132.

Corequisites: ART 133.

Taught: Fall, spring, and summer

This course is an introduction and investigation of 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)

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 (3 credits)

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)

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)

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)

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.

ART 331 Digital Design (3 credits)

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)

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)

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)*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)*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)*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)*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)*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)*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.

Ceramics Courses (ARTC)**ARTC 240 Ceramics I (3 credits)***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. Prerequisites waived for non-majors.

ARTC 340 Wheel Throwing (3 credits)*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)*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)*Prerequisites: ARTC 240.**Taught: Fall only*

Advanced studio credit in Raku and primitive firing techniques.

ARTC 440 Advanced Ceramics (3 credits)*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 expressive 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)*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)*Prerequisites: ARTC 340.*

Taught: Variable, check with department
Theory and practice; experimentation with methods and materials.

Drawing Courses (ARTD)**ARTD 310 Intermediate Drawing (3 credits)***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)*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.

Education Courses (ARTE)**ARTE 280 Art for Elementary Education (3 credits)***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)*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)

Prerequisites: ARTE 281.

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)

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.

Graphic Design Courses (ARTG)

ARTG 224 Introduction to Computer Graphic Design (3 credits)

Prerequisites: ART 123 and ART 210;

Corequisites: ART 124, ART 111.

Taught: Spring only

Integration of the computer as a tool in the design process to produce painted, drafted, and drawn imagery for print applications. May be substituted by CEP 300 with consent of instructor or academic adviser.

ARTG 225 Introduction to Graphic Design (3 credits)

Prerequisites: ART 131, ART 132, ART 133 and ART 134.

Taught: Fall only

Principles and theory of graphic design aesthetics; introduction to materials and processes.

ARTG 226 Introduction to Typography (3 credits)

Prerequisites: ARTG 224.

Corequisites: ARTG 225 and ARTG 283.

Taught: Fall only

Principles and theory of type for communication; design aesthetics of typography.

ARTG 283 Graphic Design Admittance Review (0 credits)

Prerequisites: ARTG 224.

Corequisites: ARTG 225, ARTG 226;

Taught: Fall only

Admittance review into the graphic design program. Students present their work from previous design and foundation level courses to the graphic design faculty for consideration in naming graphic design as their major.

ARTG 317 Intermediate Typography (3 credits)

Prerequisites: ARTG 224, ARTG 225, ARTG 226, ARTG 283.

Taught: Spring only

The practical application of typographic design and typographic systems as they relate to graphic design; aesthetics, history, form and functionality of typography.

ARTG 323 Intermediate Graphic Design (3 credits)

Prerequisites: ARTG 225, ARTG 226 and ARTG 283.

Taught: Fall only

Principles of information design; the computer as a tool for design of advanced print and sequential graphic materials.

ARTG 325 Production for Graphic Designers (3 credits)

Prerequisites: ARTG 225, ARTG 226, ARTG 283 and ARTG 323.

Taught: Spring only

Development of preparatory art for utilization of industrial printing techniques and processes; copy preparation and mechanical. May be substituted by CEP 300 with consent of instructor or academic adviser.

ARTG 326 Illustration (3 credits)

Taught: Spring only

Techniques of creative rendering.

ARTG 330 Interaction Design for Visual Communication (3 credits)

Prerequisites: ARTG 283, ARTG 317.

Taught: Fall and spring

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.

ARTG 417 Advanced Typography (3 credits)

Prerequisites: ARTG 225, ARTG 226, ARTG 283, ARTH 321, ARTG 317 and ARTG 325.

Taught: Fall only

Design of the printed page; design considerations in varied formats; principles of information design; exploration of the grid as format for design of sequential graphics.

ARTG 421 Special Topics in Graphic Design (3 credits)

Prerequisites: ARTG 283, ARTG 325, ARTG 327.

Taught: Spring only

Topics in graphic design. Topics listed in Schedule of Classes as topics change. Repeatable to 9 semester hours toward major in graphic design.

ARTG 425 Advanced Graphic Design Fall (3 credits)

Prerequisites: ARTG 283, ARTG 323, ARTG 317 and ARTG 325.

Taught: Fall only

Comprehensive graphic designing in project form; analysis and agency skills directed toward individual areas of specialization and professionalism. Repeatable once for a total of six credit hours.

ARTG 426 Advanced Graphic Design Spring (3 credits)

Prerequisites: ARTG 283, ARTG 323, ARTG 317 and ARTG 325.

Taught: Spring only

Comprehensive graphic designing in project form; analysis and agency skills directed toward individual areas of specialization and professionalism. Although this course cannot be repeated, students are not required to take ARTG425 and ARTG426 in sequential order.

ARTG 428 Senior Project in Graphic Design (3 credits)

Prerequisites: ARTG 327, ARTG 425.

Taught: Fall and spring

Development of a single, comprehensive, student project reflecting cumulative knowledge in graphic design; furthering of organizational skills necessary to direct a design project from concept through production; development of professional practice skills, personal portfolio, and show.

**ARTG 496 Graphic Design
Experiential Component (3 credits)**

Prerequisites: ARTG 323, ARTG 325, ARTG 283.

Taught: Fall and spring

Experiential Component for Graphic Design majors. Students arrange a graphic design internship or similar experience that acclimates them to the profession of graphic design before graduation. Students must make arrangements with instructor before beginning this course. This course is repeatable up to 6 hrs.

History Courses (ARTH)

ARTH 101 Survey of Western Art I (3 credits)

Taught: Fall and spring

Examination of significant art and architecture from prehistory through Medieval Period.

ARTH 102 Survey of Western Art II (3 credits)

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)

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)

Taught: Fall and spring

Major styles of architecture, sculpture, printmaking, painting, and ceramics of India, South Asia, China, and Japan.

ARTH 321 History of Graphic Design (3 credits)

Prerequisites: ARTH 103, ARTG 225, and ARTG 226, and ARTG 283.

Taught: Fall and spring

Survey of history of design fields; influences of graphic, fashion, industrial, and interior design; implications of typography and advertising on history.

ARTH 349 Women and Art (3 credits)

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)

Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH 104.

Taught: Variable, check with department
Painting, Sculpture and Architecture of Egypt, Greece and Rome.

ARTH 351 Medieval Art (3 credits)

Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH 104.

Taught: Variable, check with department
Evolution of Medieval art from late Antiquity to the end of the Gothic period.

ARTH 352 Northern European Art/Renaissance (3 credits)

Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH 104.

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)

Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH 104.

Taught: Variable, check with department
European painting, sculpture, and architecture from 1600 to 1750.

ARTH 354 Art of the Nineteenth Century (3 credits)

Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH 104.

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)

Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH 104.

Taught: Variable, check with department
Major art styles in Europe and America.

ARTH 356 American Art (3 credits)

Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH 104.

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)

Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH 104.

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)

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)

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)

Taught: Variable, check with department

This course will examine the art of African Americans within an historic, social, cultural and religious framework. Influences and connections will be sought from an examination of African traditions, rituals and design as well as contemporaneous trends in music and the performing arts.

ARTH 452 Arts of South Asia (3 credits)

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)

Prerequisites: 6 credit hours of ART Survey courses (ART 101, ART 102, ART 103, or ART 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)

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)

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)

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)

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. Prerequisites waived for non-majors.

ARTM 450 Advanced Video Installation and Sound (3 credits)

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)

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)

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 Basic Photography for Graphic Designers (3 credits)

Prerequisites: ARTG 224, ARTG 225, and ARTG 226.
Taught: Fall and spring
This photo class teaches graphic design students the basics of digital photography including camera controls, shooting techniques, editing and lighting. Students will also incorporate their photos into design pieces. Students are required to supply a digital SLR camera as well as an external hard drive.

ARTO 218 Study Abroad Beginning Photography (3 credits)

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)

Prerequisites: ARTO 210.
Taught: Fall and spring
Continuation of ARTO 210 with addition of color, introduction to current software for photo editing and fine printing.

ARTO 311 Intermediate Photography (3 credits)

Prerequisites: ARTO 310.
Taught: Fall and spring
Advanced visual, technical, and conceptual problems initiated by students; in-depth investigations of historical and contemporary work. Can be repeated for a total of 6 semester hours.

ARTO 315 Photo-Documentary (3 credits)

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)

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)

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 410 Advanced Photography (3 credits)

Prerequisites: ARTO 311.
Taught: Fall and spring
Student is expected to work towards a personal visual statement; relationship of student's work with past and contemporary photographs; final development of a body of work suitable for exhibition as a one-person show. To be repeated a minimum of 6 semester hours or a maximum of 12 semester hours.

ARTO 411 Summer Workshop in Photography (3 credits)

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)

Prerequisites: ARTO 311 and ARTO 315.

Taught: Spring only

Overview of commercial photography; studio illustration and architecture.

ARTO 414 Applied Photography: Studio and Location (3 credits)

Prerequisites: ARTO 311 and ARTO 315.

Taught: Fall only

Commercial photography techniques, studio portraits, environmental portraiture, fashion, color and industrial photography.

ARTO 418 Study Abroad Photography III (3 credits)

Taught: Variable, check with department
Advanced photography course for students traveling abroad. Instruction in exposure, composition, and traditional photographic techniques with self-directed projects. Students are encouraged to shoot digitally although film-based cameras acceptable. Critiques while traveling and finished project of artist book or album at completion of trip.

Painting Courses (ARTP)**ARTP 230 Painting I (3 credits)**

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)

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 333 Materials and Techniques in Painting (3 credits)

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)

Prerequisites: ARTP 330.

Taught: Fall and spring

Individual problems in painting; specialization in techniques suited to personal expression; independent painting under staff guidance; development of a consistent body of work suitable for a graduating senior show. To be repeated a minimum of 6 semester hours or a maximum of 12 semester hours.

Printmaking Courses (ARTR)**ARTR 272 Introduction to Printmaking (3 credits)**

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)

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)

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)

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)

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)

Prerequisites: consent of instructor.

Taught: Fall and spring

Independent study in advanced printmaking. Repeatable to 12 hours.

Sculpture Courses (ARTS)**ARTS 262 Sculpture I (3 credits)**

Prerequisites: ART 122.

Taught: Fall and spring

Introduction to sculpture concepts, media, and techniques. Prerequisites: ART 123 and ARTD 210 or consent of instructor for non-majors.

ARTS 360 Techniques in Sculpture (3 credits)

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)

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)

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)

AST 110 Solar System Astronomy with Laboratory (4 credits)

Taught: Fall, spring, and summer
Integrated lecture and laboratory; survey of the solar system with emphasis on application of scientific method; current thought on structure, dynamics, origin, and evolution of sun and planets; laboratory activities on observational techniques and astrophysical problems. Knowledge of elementary algebra is helpful.

General education credit: Natural Science

AST 115 Stars, Galaxies, and Cosmology with Laboratory (4 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

Prerequisites: AST 394.
Taught: Variable, check with department
Directed projects for advanced students.

AST 492 Directed Research: Astronomy (1-3 credits)

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 280 Pre-Athletic Training (2 credits)

Prerequisites: Pre Athletic Training major (XATH) or permission of ATEP Director
Corequisites: 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.

ATP 296 Athletic Training Clinical I (2 credits)

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)

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 (3 credits)

Prerequisites: BIO 208, BIO 208L, BIO 209, BIO 209L and KIN 280.

Taught: Spring only

Knowledge, skills, and values required for an entry level certified athletic trainer to assess lower extremity injuries associated with athletes and the physically active. The course will focus on pathology, etiology, clinical skills for assessment, proper care, and referral to other health care personnel when necessary.

ATP 334 Upper Extremity Evaluation (3 credits)

Prerequisites: ATP 333, BIO 208, BIO 208L, BIO 209, BIO 209L and KIN 280.

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 335 Head and Spine Evaluation (3 credits)

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 394 Athletic Training Practicum II (2 credits)

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)

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, ATP 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)

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 provide appropriate care and referral of general medical (non orthopedic conditions commonly seen by sports medicine specialists).

ATP 425 Therapeutic Modalities (4 credits)

Prerequisites: BIO 208, BIO 208L, BIO 209, BIO 209L, KIN 280. and PHY 100.

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 430 Pharmacology for Athletic Training (3 credits)

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)

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 (4 credits)

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. The course has a one hour mandatory lab.

ATP 455 Current Issues in Athletic Training (3 credits)

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)

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)

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 (4 credits)

Prerequisites: A minimum ACT score of 19 in each division (or SAT equivalent) or completion of all pre-college curriculum courses.

Corequisites: 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 (4 credits)

Prerequisites: A minimum ACT score of 24 in each division (or SAT equivalent) or accepted admission to the Honors Program.

Corequisites: BIO 120L.

Taught: Spring only

Cell biology; genetics; ecology; biological evolution and diversity. Not applicable to major or minor in biological sciences.

General education credit: Natural Science

BIO 120L Understanding the Living World Laboratory (0 credits)

Corequisites: 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 (3 credits)

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 (1 credit)

Prereq OR Coreq: BIO 121.

Taught: Fall and summer

Laboratory to accompany BIO 121.

Microscopy, anatomy, and physiology.

General education credit: Natural

Science

BIO 123 Human Ecology (3 credits)

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 (3 credits)

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 (3 credits)

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 129 Spring Flora of Kentucky (1 credit)

Prerequisites: BIO 120.

Taught: Variable, check with department
Identification and uses of Kentucky's spring flowering plants. Two weekends (Saturday and Sunday) of field work.

BIO 131 Summer Flora of Kentucky (1 credit)

Prerequisites: BIO 120.

Taught: Variable, check with department
Identification and uses of Kentucky's summer flowering plants. Two weekends (Saturday and Sunday) of field work.

BIO 150 Introduction to Biology I (4 credits)

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.

Corequisites: 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 education credit: Natural Science

BIO 150L Introduction to Biology I Laboratory (0 credits)

Corequisites: 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)

Prerequisites: BIO 150 with a C- or better.

Corequisites: BIO 151L.

Taught: Spring and summer

Population genetics and evolution; systematics and diversity of life; organismal systems anatomy and physiology; interrelationships among organisms and between organisms and their environment. Suggested only for students majoring or minoring in biological sciences.

BIO 151L Introduction to Biology II Laboratory (0 credits)

Corequisites: BIO 151.

Taught: Spring and summer

Laboratory to accompany BIO 151.

Suggested only for students majoring or minoring in biological sciences.

BIO 155 Orientation to Biology (1 credit)

Corequisites: BIO 151.

Taught: Spring and summer

Biology issues and applications, methodology, career opportunities, and postgraduate options. Classroom discussions, faculty panels, and written essays.

BIO 202 Microbiology for Health Professionals (4 credits)

Prerequisites: one semester of college biology and one semester of college chemistry (CHE 115 or above).

Corequisites: 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)

Corequisites: BIO 202.

Taught: Fall, spring, and summer

Laboratory to accompany BIO 202. Bacteriological techniques.

BIO 208 Human Anatomy and Physiology I (4 credits)

Prerequisites: Composite ACT of 19 or any college biology or chemistry course with a grade of C- or better.

Corequisites: 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 (0 credits)

Corequisites: 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)

Prerequisites: BIO 208.

Corequisites: 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)

Corequisites: 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 (3 credits)

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 (3 credits)

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)

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)

Prerequisites: BIO 150 or BIO 208.

Taught: Fall only

Derivatives, prefixes, roots, and suffixes.

BIO 291W Advanced Writing in Biology (3 credits)

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 294 Topics: Biological Sciences (1-5 credits)

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)

Prerequisites: BIO 150 and BIO 151.

Corequisites: BIO 300L.

Taught: Fall only-even years

Organs and organ systems of representative vertebrates; phylogentic relationships among vertebrate classes.

BIO 300L Comparative Vertebrate Anatomy Laboratory (0 credits)

Corequisites: BIO 300.

Taught: Fall only-even years

Laboratory to accompany BIO 300.

BIO 301 Invertebrate Zoology (4 credits)

Prerequisites: BIO 150 and BIO 151.

Corequisites: BIO 301L.

Taught: Fall only-odd years

Classification, anatomy, physiology, ecology, and preservation of invertebrate animals.

BIO 301L Invertebrate Zoology Laboratory (0 credits)

Corequisites: BIO 301.

Taught: Fall only-odd years

Laboratory to accompany BIO 301. Field trips.

BIO 302 General Microbiology (4 credits)

Prerequisites: C- or better in BIO 151 and CHE 120.

Corequisites: 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)

Corequisites: BIO 302.

Taught: Fall and spring

Laboratory to accompany BIO 302. Microbiological techniques.

BIO 303 Vertebrate Zoology (4 credits)

Prerequisites: BIO 150 and BIO 151.

Corequisites: BIO 303L.

Taught: Fall only-even years

Classification, evolution, life histories, ecology, and distribution of vertebrates.

BIO 303L Vertebrate Zoology Laboratory (0 credits)

Corequisites: 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)

Prerequisites: BIO 150 and BIO 151.

Taught: Fall, spring, and summer

Interrelationships between organisms and their environment.

BIO 304L Ecology Laboratory (1 credit)

Prereq OR Coreq: 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)

Prerequisites: BIO 150 and BIO 151.

Corequisites: BIO 305L.

Taught: Variable, check with department

Principles and mechanisms of embryonic development.

BIO 305L Vertebrate Embryology Laboratory (0 credits)

Corequisites: BIO 305.

Taught: Variable, check with department

Laboratory to accompany BIO 305.

BIO 308 Plant Systematic (4 credits)

Prerequisites: BIO 150 and BIO 151.

Corequisites: 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)

Corequisites: BIO 308.

Taught: Fall only-odd years

Laboratory to accompany BIO 308.

BIO 309 Plant Ecology (4 credits)

Prerequisites: BIO 150 and BIO 151 or consent of instructor.

Corequisites: 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)

Corequisites: BIO 309.

Taught: Variable, check with department

Laboratory to accompany BIO 309. Field trips.

BIO 310 Plant Morphology (4 credits)

Prerequisites: BIO 150 and BIO 151.

Corequisites: BIO 310L.

Taught: Variable, check with department

Structure, life history, and relationships of representative plants.

BIO 310L Plant Morphology Laboratory (0 credits)

Corequisites: BIO 310.

Taught: Variable, check with department

Laboratory to accompany BIO 310.

BIO 311 Mycology (3 credits)

Prerequisites: BIO 150.

Corequisites: BIO 311L.

Taught: Variable, check with department

Morphology, identification, evolution, ecology, and culturing techniques of fungi.

BIO 311L Mycology Laboratory (0 credits)

Corequisites: BIO 311.

Taught: Variable, check with department

Laboratory to accompany BIO 311.

BIO 312 Dendrology (3 credits)

Prerequisites: BIO 150 and BIO 151, or BIO 211.

Corequisites: 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)

Corequisites: BIO 312.

Taught: Fall only-even years

Laboratory to accompany BIO 312. Field trips.

BIO 313 General Botany (4 credits)

Prerequisites: BIO 150.

Corequisites: BIO 313L.

Taught: Spring only

Morphology; taxonomy; physiology; genetics; ecology; evolution.

BIO 313L General Botany Laboratory (0 credits)

Corequisites: BIO 313.

Taught: Spring only

Laboratory to accompany BIO 313. Field trips.

BIO 320 Entomology (4 credits)

Prerequisites: BIO 150 and BIO 151.

Corequisites: 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)

Corequisites: BIO 320.

Taught: Fall only-even years

Laboratory to accompany BIO 320.

BIO 342 Biometry (3 credits)

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)

Prerequisites: BIO 151 and CHE 121.

Corequisites: 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)

Corequisites: 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)

Prerequisites: BIO 150, BIO 151 and BIO 349.

Taught: Spring only

Mechanisms; historical and philosophical perspectives; empirical evidence; contemporary application.

BIO 360 Advanced Biology of the Cell (3 credits)

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 381 Human Nutrition and Metabolism (3 credits)

Prerequisites: BIO 150, BIO 151 and CHE 310.

Taught: Spring only-even years

Biochemistry and physiology of human nutritional requirements and deficiencies; current topics in nutrition, including food faddism, medical nutrition, and the world food crisis.

BIO 394 Externship: Biological Sciences (1-2 credits)

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)

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)

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)

Prerequisites: BIO 349, BIO 349L, CHE 310 and CHE 311.

Corequisites: 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; transgenic; contemporary bioethics issues. BIO 382 or CHE 482 recommended.

BIO 400L Advanced Molecular Biology Laboratory (0 credits)

Corequisites: 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)

Prerequisites: BIO 291W.

Corequisites: BIO 402L.

Taught: Spring only-even years

Explore the higher functions of the nervous system in terms of the molecular and cellular biology.

BIO 402L Advanced Neurobiology Laboratory (0 credits)

Corequisites: BIO 402.

Taught: Spring only-even years

Laboratory to accompany BIO 402.

BIO 404 Herpetology (4 credits)

Prerequisites: BIO 150 and BIO 151 (BIO 300 or BIO 303 recommended).

Corequisites: BIO 404L.

Taught: Spring only-odd years

Evolution, classification, anatomy, physiology, behavior, and ecology of reptiles and amphibians; identification of local species.

BIO 404L Herpetology Laboratory (0 credits)

Corequisites: BIO 404.

Taught: Spring only-odd years

Laboratory to accompany BIO 404. Field trips, including one weekend field trip.

BIO 405 Invertebrate Paleontology (4 credits)

Prerequisites: BIO 301 or GLY 302.

Corequisites: BIO 405L.

Taught: Fall only-odd years

Major phyla in the fossil record; pale biological, systematic, and evolutionary aspects; collection and identification of local fossils. Same as GLY 402.

BIO 405L Invertebrate Paleontology Laboratory (0 credits)

Corequisites: BIO 405.

Taught: Fall only-odd years

Laboratory to accompany BIO 405.

BIO 406 Ecosystem Ecology (4 credits)

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)

Prerequisites: BIO 151 with a grade of C- or better, or consent of instructor.

Corequisites: BIO 407L.

Taught: Spring only-even years

Classification, anatomy, physiology, behavior, ecology, and field identification of birds. Field trips.

BIO 407L Ornithology Laboratory (0 credits)

Corequisites: BIO 407.

Taught: Spring only-even years

Laboratory to accompany BIO 407. Field trips, including one weekend field trip.

BIO 409 Biogeography (3 credits)

Prerequisites: BIO 150 and BIO 151.

Taught: Spring only-odd years

Present and past geographical distribution of organisms.

BIO 410 Conservation Biology (3 credits)

Prerequisites: BIO 150 and BIO 151.

Taught: Spring only-even years

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 416 Field Botany (3-4 credits)

Prerequisites: C- or better in BIO 151.
Taught: Variable, check with department
Observation, identification, and distribution of flora.

BIO 421 Mammalogy (4 credits)

Prerequisites: BIO 150 and BIO 151.
Corequisites: BIO 421L.
Taught: Variable, check with department
Evolution, systematics, zoogeography, and natural history of mammals. Required field trips.

BIO 421L Mammalogy Laboratory (0 credits)

Corequisites: BIO 421.
Taught: Variable, check with department
Laboratory to accompany BIO 421.

BIO 422 Limnology (4 credits)

Prerequisites: C- or better in BIO 151 and CHE 121.
Corequisites: 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 304 and BIO 291W recommended.)

BIO 422L Limnology Laboratory (0 credits)

Corequisites: BIO 422.
Taught: Variable, check with department
Laboratory to accompany BIO 422. Field trips.

BIO 425 Mammalian Anatomy and Physiology I (4 credits)

Prerequisites: BIO 150, BIO 151, BIO 291W, CHE 120 and CHE 121; or consent of instructor.
Corequisites: 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)

Corequisites: BIO 425.
Taught: Fall only
Laboratory to accompany BIO 425.

BIO 426 Mammalian Anatomy and Physiology II (4 credits)

Prerequisites: BIO 425 or consent of instructor.
Corequisites: BIO 426L.
Taught: Spring only
Regulation of physiological processes. Continuation of BIO 425.

BIO 426L Mammalian Anatomy and Physiology II Laboratory (0 credits)

Corequisites: BIO 426.
Taught: Spring only
Laboratory to accompany BIO 426.

BIO 430 Immunology (3 credits)

Prerequisites: BIO 302 and BIO 302L.
Taught: Spring only-odd years
Biology of the immune response.

BIO 430L Immunology Laboratory (1 credit)

Corequisites: BIO 430.
Taught: Spring only-odd years
Laboratory to accompany BIO 430.

BIO 440 Animal Behavior (4 credits)

Corequisites: BIO 440L.
Prereq OR Coreq: BIO 291W.
Taught: Spring only-odd years
Nervous systems and neurophysiology; classification, genetics, evolution, and ecology of behavior; developmental and social behavior.

BIO 440L Animal Behavior Laboratory (0 credits)

Corequisites: BIO 440.
Taught: Spring only-odd years
Laboratory to accompany BIO 440.

BIO 441 Animal Physiological Ecology (4 credits)

Prerequisites: BIO 304.
Corequisites: 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)

Corequisites: BIO 441.
Taught: Fall only-odd years
Laboratory to accompany BIO 441.

BIO 445 Anatomy of Vascular Plants (4 credits)

Prerequisites: BIO 150, BIO 151 and BIO 313.
Corequisites: BIO 445L.
Taught: Variable, check with department
Structure and differentiation of cells, tissues, and organs.

BIO 445L Anatomy of Vascular Plants Laboratory (0 credits)

Corequisites: BIO 445.
Taught: Variable, check with department
Laboratory to accompany BIO 445.

BIO 446 Plant Physiology (5 credits)

Corequisites: BIO 446L.
Taught: Spring only-odd years
Photosynthesis, cellular respiration, carbohydrate and protein metabolism, mineral nutrition, hormonal controls, and related topics in physiology of green plants. REREQ: BIO 150, BIO 151, CHE 311 and CHE 311L.

BIO 446L Plant Physiology Laboratory (0 credits)

Corequisites: BIO 446.
Taught: Spring only-odd years
Laboratory to accompany BIO 446.

BIO 451 Histology (4 credits)

Prerequisites: BIO 150, BIO 151 and CHE 310.
Co-requisites: BIO 451L.
Taught: Variable, check with department
Studio Arts Major Microscopic anatomy of mammalian tissues and organs; demonstrations of and laboratory experience in basic histological techniques.

BIO 455 Scanning Electron Microscopy (3 credits)

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)

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)

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)

Prerequisites: BIO 151.
Taught: Spring only-even years
 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 and 304 recommended.)

BIO 463 Tropical Ecology Laboratory (1 credit)

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)

Prerequisites: C- or better in BIO 151 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)

Prerequisites: BIO 349 and CHE 310.
Corequisites: BIO 466L.
Taught: Spring only
 Introduction to physiological processes of animals with emphasis on mammalian systems.

BIO 466L Animal Physiology Laboratory (0 credits)

Corequisites: 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)

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)

Prerequisites: BIO 302.
Corequisites: 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)

Corequisites: BIO 470.
Taught: Fall only-even years
 Laboratory to accompany BIO 470.

BIO 474 Microbial Ecology (4 credits)

Prerequisites: BIO 302.
Corequisites: 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)

Corequisites: BIO 474.
Taught: Variable, check with department
 Laboratory to accompany BIO 474.

BIO 475 Virology (3 credits)

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 482 Biochemistry (3 credits)

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. Same as CHE 482.

BIO 482L Biochemistry Laboratory I (1 credit)

Prerequisites: grade of C or better in BIO 482 or CHE 482.
Corequisites: BIO 482 or CHE 482, or CHE 482.
Taught: Fall only
 Advanced laboratory techniques used in isolation, purification, and characterization of amino acids, peptides, and proteins; training in use of modern equipment for experimentation and of computers for data analysis. Same as CHE 482L.

BIO 483 Biochemistry II (3 credits)

Prerequisites: C or better in BIO 482 or CHE 482.
Taught: Spring only
 Metabolism, biosynthesis of cell components, nucleic acid replication, protein synthesis, DNA recombination, hormone action. Same as CHE 483.

BIO 491 Comprehensive Examination (0 credits)

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. Graded pass/fail.

BIO 492 Directed Research: Biological Sciences (1-3 credits)

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)

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)

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)

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.

Black Studies Courses (BLS)**BLS 100 Introduction to Black Studies (3 credits)**

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)

Prerequisites: Consent of instructor.

Taught: Variable, check with department
Study of selected topics. Subfields will be chosen in keeping with the interest of the instructor in charge and will be listed in the Schedule of Classes. May be repeated for credit when topics vary.

Business Courses (BUS)**BUS 101 Introduction to Business (3 credits)**

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)

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)

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)

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)

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)

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)

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)

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)

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.

Business Informatics Courses (BIS)**BIS 300 Management Information Systems (3 credits)**

Prerequisites: Junior standing, STA 212 Statistics I and demonstrated competency in Word, Excel and PowerPoint e.

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. g., completion of INF101 or equivalent transfer work or placement.

BIS 305 Advanced Business Programming (3 credits)

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)

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)

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)

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)

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)

Taught: Variable, check with department

BIS 399 Independent Study (3 credits)

Taught: Variable, check with department

BIS 402 Programming for E-Commerce (3 credits)

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)

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)

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)

Prerequisite: 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)

Prerequisites: INF 282 and certified major in business informatics or consent of chair.

Taught: Fall only

Concepts and techniques of data organization and access; basic data structures, file organization and processing, database modeling and processing, database management systems, database analysis and design, data administration, and implementing databases in a client/server architecture.

BIS 440 Global Information Technology Management (3 credits)

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)*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)*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 (3 credits)*Prerequisites: BIS 305; senior standing; certified major in business informatics; consent of instructor.*

Taught: Variable, check with department
Student investigation of a topic or completion of a project. Meeting times arranged with instructor. Open only to students certified as majoring in information systems.

Career and Technical Education Courses (CTE)**CTE 180 Foundations: Career/Technical Education (3 credits)***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)*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)*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)*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)*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)*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)*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)*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)*Prerequisites: CTE 181 or consent of instructor.*

Corequisites: curricular responsibilities as applied to career and technical education programs at all educational levels.

Taught: Spring only-odd years

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)*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)*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)*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)*Prerequisites: CTE 280.**Taught: Fall only-even years*

Problems, issues, and trends. Students will complete a paper and present findings in a seminar.

CTE 496 Instructional Internship (8 credits)*Taught: Variable, check with department*

Orientation/exploration or preparation level classroom experiences through observing, planning, and teaching under

supervision of an experienced teacher; conferences and seminars.

Cooperative Education Courses (CEP)

CEP 101 Career Development (2 credits)

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)

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)

CHE 102 Introduction to Chemistry (3 credits)

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 (4 credits)

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 (3 credits)

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 (1 credit)

Prereq OR Coreq: 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 (3 credits)

Prerequisites: high school chemistry and a minimum score of 19 on ACT math section or equivalent; or a C- or better in CHE 102.

Corequisites: 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 (1 credit)

Corequisites: CHE 115.

Taught: Fall, spring, and summer

Laboratory elucidation of chemical and biochemical principles.

General education credit: Natural Science

CHE 120 General Chemistry I (3 credits)

Prerequisites: high school chemistry and a minimum score of 22 on the ACT math section or equivalent; OR a C- or better in CHE 102.

Corequisites: 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 (1 credit)

Corequisites: 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)

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)

Prerequisites: C- or better in CHE 120L.

Prereq OR Coreq: CHE 121.

Taught: Spring and summer

Continuation of CHE 120L.

CHE 292 Introductory Chemical Research (0 credits)

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)

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)

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)

Prerequisites: or COREQ: CHE 310.
Taught: Fall and spring
 Introduction to the laboratory practice of organic chemistry; techniques and separations. *Prerequisites:* C- or better in CHE 121L.

CHE 311 Organic Chemistry II (3 credits)

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)

Prerequisites: CHE 310L.
Prereq OR Coreq: CHE 311.
Taught: Spring and summer
 Reactions of organic compounds; identification of unknowns; synthesis.

CHE 320 Inorganic Chemistry (3 credits)

Prerequisites: C- or better in CHE 310.
Corequisites: 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)

Prerequisites: C- or better in CHE 310L.
Corequisites: 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)

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)

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)

Prerequisites: C- or better in CHE 121.
Corequisites: CHE 340L.
Taught: Fall only
 Chemical and stoichiometric principles; gravimetric, volumetric, and spectrophotometric analysis.

CHE 340L Analytical Chemistry Laboratory (2 credits)

Prerequisites: CHE 121L.
Corequisites: 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)

Prerequisites: CHE 340 and CHE 340L.
Corequisites: CHE 350L.
Taught: Spring only
 Analytical techniques involving modern chemical instruments.

CHE 350L Instrumental Analysis Laboratory (2 credits)

Corequisites: 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)

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)

Prereq OR Coreq: CHE 361.
Taught: Spring only
 Experiments in thermodynamics, chemical kinetics, transport properties, spectroscopy, and elementary quantum chemistry.

CHE 365 Molecular Modeling (1 credit)

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 (3 credits)

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)

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)

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 Laboratory (1 credit)

Prerequisites: consent of instructor and completion of the designated laboratory course with a grade of B or better.

Taught: Variable, check with department
Participation in planning, teaching, and testing in a designated undergraduate chemistry laboratory 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 minor in chemistry.

CHE 399 Independent Study in Chemistry (1-3 credits)

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)

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)

Prerequisites: C- or better in CHE 310.

Taught: Spring only-odd years

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)

Prerequisites: C- or better in CHE 311 and CHE 340.

Taught: Spring only-even years

General Education: Mathematics
Chemistry as it applies to environmental problems and their solutions; analytical methods, energy needs, and biochemical application.

CHE 460 Molecular Spectroscopy (2 credits)

Prerequisites: C- or better in CHE 311, C- or better in CHE 350, C- or better in CHE 350L.

Corequisites: 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)

Corequisites: CHE 460.

Taught: Fall only-even years

Experiments using modern molecular spectroscopic techniques.

CHE 482 Biochemistry I (3 credits)

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. Same as BIO 482.

CHE 482L Biochemistry I Laboratory (1 credit)

Prereq OR Coreq: CHE 482 or BIO 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. Same as BIO 482L.

CHE 483 Biochemistry II (3 credits)

Prerequisites: C- or better in CHE 482 or BIO 482.

Taught: Spring only

Metabolism, biosynthesis of cell components, nucleic acid replication, protein synthesis, DNA recombination, hormone action. Same as BIO 483.

CHE 483L Advanced Biochemistry II Laboratory (1 credit)

Prereq OR Coreq: CHE 483 or BIO 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. Same as BIO 483L.

CHE 492 Research: Chemistry (1-3 credits)

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)

Prerequisites: CHE 310.

Taught: Variable, check with department
General Education: Written

Communication I 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)

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)

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)

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)

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 (3 credits)

Taught: Fall only

Basic skills in pronunciation, conversation, 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)

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)

Taught: Variable, check with department
Practice in Chinese language.

CHI 201 Intermediate Chinese I (3 credits)

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 subjects. A general education course (humanities or non-Western).

CHI 202 Intermediate Chinese II (3 credits)

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)

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)

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)

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)

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)

Taught: Variable, check with department

This is the capstone experience for the Undergraduate Certificate in Civic Engagement and 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 complement 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)

COM 498 Communication Proseminar (3 credits)

Prerequisites: Students must be undergraduates with early 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)

Taught: Spring only-odd years

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)

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)

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)

Taught: Spring only-odd years

Advanced seminar in the history, theory, methods and practice of rhetorical criticism.

COM 571 Critical Ethnography (3 credits)

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)

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)

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)

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)**CMST 101 Public Speaking (3 credits)**

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)

Taught: Fall only
Development of understanding of the oral communication process; aid in improving oral communication skills; idea and message development; effective delivery of ideas; Offered every semester.

General education credit: Oral Communication

CMST 110 Introduction to Communication Studies (3 credits)

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)

Prerequisites: CMST 101 or CMST 110.
Taught: Spring only
Understanding of listening behavior; methods of improving listening skills.

CMST 220 Interpersonal Communication (3 credits)

Prerequisites: CMST 101 or CMST 110.
Taught: Fall and spring
Theories and skills of dyadic interaction in professional and personal contexts; perception, self-concept, nonverbal communication, listening, assertiveness, relationships, conflict management and problem solving.

CMST 230 Small Group Communication (3 credits)

Prerequisites: CMST 101 or CMST 110.
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)

Prerequisites: CMST 101 or CMST 110.
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)

Prerequisites: CMST 101 or CMST 110.
Taught: Fall and spring
Organizational communication theories, models, and processes with practical application of these principles in organizational communication speaking exercises; management and leadership communication skills.

CMST 310 Argumentation (3 credits)

Prerequisites: CMST 101 or CMST 110.
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)

Prerequisites: CMST 101 or CMST 110.
Taught: Variable, check with department
This course will focus on principles, concepts and characteristics defining gendered communication. It is designed to enhance your knowledge and understanding of the elements key to successful communication across genders, whether they are business, personal, social, familial or intimate. Also, the role of socialization in gendered development will be explored.

CMST 320 Advanced Interpersonal Communication (3 credits)

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)

Prerequisites: CMST 101 or CMST 110.
Taught: Variable, check with department
Communication strategies and tactics employed by candidates seeking public office; political audiences, campaign phases, political debates, political language, advertising campaigns, media coverage, and campaign speeches.

CMST 335 Communication and Conflict (3 credits)

Prerequisites: CMST 101 or CMST 110.
Taught: Spring only
Theories and strategies of communication will be examined to help explain how people behave in conflict and suggest means of improving communication in order to facilitate a more collaborative process and the production of win-win outcomes.

CMST 340 Strategies of Persuasion (3 credits)

Prerequisites: CMST 101 or CMST 110.
Taught: Fall and spring
Persuasion theory practice, and ethics in preparing and presenting persuasive messages and campaigns.

CMST 345 Family Communication (3 credits)

Prerequisites: CMST 101 or CMST 110.

Taught: Fall only

Course explores the communication processes associated with families. Students will examine theories of communication and family life cycles, different family forms, understudied families, power and conflict in families, and communication and stress in families.

CMST 355 Cross-Cultural Communication (3 credits)

Prerequisites: CMST 101 or CMST 110.

Taught: Fall and spring

Theory, criticism, and practice of cross-cultural communication, individual experience in communicating interculturally, and strategies in cross-cultural communication situations.

CMST 360 Interviewing (3 credits)

Prerequisites: CMST 101 or CMST 110.

Taught: Fall and spring

Theory and principles related to a variety of interviewing settings; employment, information, and advising; role of interviewer and interviewee; use of role playing; outside class exercises such as real interviews and written reports. Same as JOU 360 and EMB 360.

CMST 370 Advanced Public Speaking (3 credits)

Prerequisites: CMST 101 or CMST 110.

Taught: Fall and spring

Organization, style and delivery of speeches for social occasions, non-classroom settings, and complex setting; speech writing.

CMST 394 Topics in Communication Studies (3 credits)

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)

Prerequisites: written consent of supervising faculty member; junior or senior standing; and a GPA of at least 2.75.

Taught: Fall, spring, and summer

Selected placement of qualified students in off-campus speech communication related professions; experience in corporate training, speech writing,

interviewing, sales, and groups, communication.

CMST 410 Rhetorical Theories (3 credits)

Prerequisites: CMST 101 or CMST 110.

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)

Prerequisites: CMST 101 or CMST 110.

Taught: Fall and spring

Theories of interpersonal, group, public, and mass communication; historical developments, paradigms, and research that shape communication theory construction. Same as JOU 430 and EMB 430.

CMST 440 Communication Training and Development (3 credits)

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 development, needs assessments, presentation skills, audio/visual aids, and evaluation procedures.

CMST 499 Independent Study (1-3 credits)

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)**

Prerequisites: ENG 101 or ENG 151 or equivalent.

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)

Prerequisites: ENG 101 or ENG 151 or equivalent.

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)

Prerequisites: ENG 101 or ENG 151 or equivalent.

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)

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)**

Prerequisites: 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)

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)

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)

Prerequisites: consent of instructor.

Taught: Variable, check with department
Directed study.

CIT 352 Geographic Databases (3 credits)

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)

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)

Prerequisites: C- or better in CIT 370.

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)

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 Intern Topics: Computer Information Technology (3 credits)

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)

Prerequisites: consent of instructor.

Taught: Variable, check with department
Directed study.

CIT 430 Computer Forensics (3 credits)

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)

Prerequisites: C- or better in CIT 271 and CIT 371.

Taught: Spring only

An applied, practical introduction to web and database administration; installing and configuring a web a 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)

Prerequisites: C- or better in INF 284.

Taught: Fall and spring

Network and transport protocols (PI, 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)

Prerequisites: C- or better in CIT 447.

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.

CIT 470 Advanced Network and System Administration (3 credits)

Prerequisites: C- or better in CIT 271, CIT 371 and CIT 383.

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)

Prerequisites: C- or better in INF 282 and CIT 370.

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)

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)

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)

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)

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)

Prerequisites: CIT major, senior standing and approval of instructor.

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.

CIT 499 Advanced Independent Study (1-3 credits)

Prerequisites: consent of instructor.

Taught: Variable, check with department

CIT 500 Information Technology Fundamentals (3 credits)

Prerequisites: permission of instructor.

Taught: Fall and spring
Fundamentals of UNIX system administration, including use of the shell, users and groups, security, logging, backups, cron, and server installation and configuration.

CIT 501 Scripting (3 credits)

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)

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)

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 536 Web Server Administration (3 credits)

Prerequisites: CIT 500 .

Prereq OR Coreq: 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)

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.

CIT 565 Storage Administration (3 credits)

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)

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)

Prerequisites: CIT 500 .

Prereq OR Coreq: 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)

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)

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)

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)

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)

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)

Prerequisites: C- or better in MAT 128 or MAT 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 299 Directed Readings/Independent Study (1-3 credits)

Prerequisites: consent of instructor.

Taught: Variable, check with department

CSC 301 Web Programming (3 credits)

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)

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)

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)

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)

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)

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)

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)

Prerequisites: consent of instructor.

Taught: Variable, check with department

CSC 402 Advanced Programming Methods (3 credits)

Prerequisites: C- or better in CSC 362 and CSC 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)

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)

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)

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)

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)

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)

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)

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)

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.

CSC 462 Computer Architecture (3 credits)

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)

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)

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)

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)

Prerequisites: C- or better in MAT 225 or CSC 362 or CSC 363.
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)

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)

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)

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)

Prerequisites: consent of instructor.
Taught: Variable, check with department

CSC 501 Intermediate Programming Workshop (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

Taught: Fall and spring

An introduction to construction occupations, terminology, delivery systems, and procedures; interpretation of working drawings, specifications, and construction contracts.

CMGT 120 Construction Materials and Processes I (3 credits)

Taught: Fall and spring

Properties and characteristics of concrete, masonry, and metal materials used in modern construction. Principles of earthwork, and methods and techniques used to construct commercial and residential structures with these materials.

CMGT 121 Construction Materials and Processes II (3 credits)

Taught: Fall and spring

Properties and characteristics of construction materials made of wood, plastics, composites, ceramics, glass, synthetics, and those associated with thermal and moisture protection.

Methods and techniques used to construct commercial and residential structures with these materials.

CMGT 122 Architectural Design and Drafting (2 credits)

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)

Prerequisites: MAT 119.

Taught: Fall and spring

Procedures; care and operation of surveying instruments and equipment; generation and interpretation of field data; computation and site layout.

CMGT 222 Architectural CAD (2 credits)

Prerequisites: CMGT 122.

Taught: Fall and spring

Introduction to Architectural CAD AEC software; drawing, dimensioning editing, layering, setting defaults, 3D pictorials, and plotting. Students will generate a complete set of architectural drawings as their project.

CMGT 301 Cooperative Construction Management (3 credits)

Prerequisites: CMGT 222.

Taught: Fall, spring, and summer

Supervised, objective based work experience related to a student's technology major. Coordinated by employer, faculty, coop coordinator, and student. Minimum of 20 hours on the job per week. Open to all students majoring in technology; may be repeated up to 9 semester hours. Apply to the Department of Construction Management and Organizational Leadership Office of Cooperative Education.

CMGT 303 Construction Specifications and Estimating (3 credits)

Prerequisites: CMGT 120, CMGT 122 and CMGT 301.

Taught: Fall and spring

Introduction to and interpretation of contract documents used in construction including specifications and project

manuals. An introduction to basic estimating practices, bidding procedures, and contracts are discussed.

CMGT 305 M/E/P Systems I (3 credits)

Prerequisites: CMGT 222 and CMGT 301.

Taught: Fall and spring

The study of fundamental principles and materials of electrical, plumbing, and HVAC systems are studied. The comprehension of electrical and mechanical construction plans and specifications is emphasized.

CMGT 306 M/E/P Systems II (3 credits)

Prerequisites: CMGT 305.

Taught: Fall and spring

The comprehension and selection of electrical, plumbing, and HVAC systems are studied. Principles of code, design theory, methods, and materials are applied to electrical plumbing, heating, ventilation, and air conditioning systems for buildings. The comprehension of electrical and mechanical construction plans and specifications is emphasized.

CMGT 320 Construction Estimating (3 credits)

Prerequisites: CMGT 303.

Taught: Fall and spring

Interpretation of construction drawings and specifications; estimating quantities, cost of materials, and labor costs; work methods; job planning; project scheduling and control; field administration; management procedures of contracting.

CMGT 322 Structural Design (3 credits)

Prerequisites: CMGT 222, CMGT 301 and MAT 119.

Taught: Fall only

Structural design and procedures to conform with current practice and industry recommended specifications and design standards for steel, wood, and reinforced concrete.

CMGT 323 Land Planning and Development (3 credits)

Prerequisites: CMGT 220, CMGT 222 and CMGT 303.

Taught: Spring only

Practices in land planning and subdivision design; subsurface utility systems; environmental considerations.

CMGT 324 Construction Scheduling (3 credits)

Prerequisites: CMGT 320.

Taught: Spring only

Subject matter and "simulated hands on" experiences in all phases of current construction project coordination and documentation.

CMGT 325 Construction Safety (3 credits)

Prerequisites: CMGT 120 and CMGT 301.

Taught: Fall and spring

Construction safety and regulatory agencies; understanding of 29 CFR 1926 standards; elimination of construction site hazards.

CMGT 328 Soil Technology and Foundation Design (3 credits)

Prerequisites: CMGT 220, CMGT 222, and CMGT 303.

Taught: Fall and spring

Understanding the various types of soils, their stability and strengths and with this information understanding the design of soil stabilization and the structural concepts of foundations and substructures.

CMGT 383 Advanced Technical Study (3 credits)

Prerequisites: CMGT 222.

Taught: Variable, check with department
Participation in an employer based technical study program, in a technical seminar, or in a com-pany based practicum. Supervision arranged by the instructor and the agency sponsoring the program. Application must be made with instructor in semester preceding experience. Forty hours of work for each semester hour.

CMGT 399 Independent Study in Construction Management (1-3 credits)

Prerequisites: consent of department chair.

Taught: Variable, check with department
For advanced students seeking to study selected problems.

CMGT 400 Building Codes (3 credits)

Prerequisites: CMGT 303.

Taught: Fall only

IBC/IRC, Understanding the application of the national building codes for residential (RBC) and commercial building codes (IRC).

CMGT 415 Construction Management (3 credits)

Prerequisites: CMGT 324.

Taught: Fall and spring

Principles of construction management applied to a construction project; site facilities planning, procurement, shop drawings and submittals, scheduling, coordinating and tracking subcontracts, tracking change orders, and job cost.

CMGT 420 Construction Cost Control (3 credits)

Prerequisites: CMGT 324.

Taught: Fall and spring

A study of project-level cost control and construction economics. Major emphasis is placed on labor cost control, project cash flow, and analysis of capital expenditures. Other topics include order of magnitude estimating, equipment cost control, material cost control, subcontract cost control, and construction claims.

CMGT 424 Capstone: Construction Renovation and Restoration (3 credits)

Prerequisites: CMGT 322 and CMGT 324.

Taught: Fall only

Procedures and techniques for renovating and restoring residential and commercial structures; identifying classical architecture; guidelines for historic preservation; preparation of documents, contracts, drawings, and specifications for renovation of an historic structure. Should be completed within the last 20 semester hours of CMGT program.

CMGT 426 Heavy Construction Techniques and Analysis (3 credits)

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)

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)

Prerequisites: CMGT 220, CMGT 222, and CMGT 320.

Taught: Fall and spring

Principles of civil system design, construction, and processes; including roadways, underground utilities, retention and detention structures, traffic engineering, and regulations.

CMGT 430 Design Build (3 credits)

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: Commercial and Residential (3 credits)

Prerequisites: CMGT 322, CMGT 324, CMGT 400, CMGT 429 and CMGT 430.

Taught: Spring only

Techniques used in the development of the design of a commercial and/or resident structure, civil design of site using the specifications, structural, electrical/mechanical, estimating, and project planning concept. Resident project content will parallel closely competition project requirement for the National Homebuilders Contest. community involvement stressed. Should be completed within last 20 semester hours of CMGT program.

CMGT 494 Seminar: Construction Management (3 credits)

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.).

Dance Courses (DAN)

DAN 120 Ballet I (3 credits)

Taught: Fall, spring, and summer

Introduction to technique for students with little or no dance training.

DAN 220 Ballet II (3 credits)

Prerequisites: consent of instructor or chair.

Taught: Fall and spring

Intermediate level.

DAN 221 Modern Dance I (3 credits)

Taught: Fall and spring

Beginning level.

DAN 222 Jazz Dance I (3 credits)

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)

Taught: Fall only

Introduction to tap dance technique. No previous training necessary.

DAN 226 Foundation Seminar (2 credits)

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)

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)

Prerequisites: DAN 221 or consent of instructor or chair.

Taught: Spring only

Intermediate level.

DAN 322 Jazz Dance II (3 credits)

Prerequisites: DAN 222 or consent of instructor or chair.

Taught: Variable, check with department
Intermediate level.

DAN 323 Physiology of Dance (3 credits)

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)

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)

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)

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)

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)

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)

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.

Economics Courses (ECO)

ECO 200 Principles of Macroeconomics (3 credits)

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 (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

Prerequisites: EDS 360 or PHE 500 or permission of instructor.

Corequisites: 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)

Prerequisites: EDS 360 or PHE 500 or permission of instructor.

Corequisites: 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)

Prerequisites: EDU 360 or PHE 500 or permission of instructor.

Corequisites: 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)

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 362 Applied Behavior Analysis for Students with Disabilities (3 credits)

Corequisites: 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)

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)

Prerequisites: EDS 364.

Corequisites: 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)

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)

Corequisites: 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. Graded pass/fail.

EDS 561 Mental and Orthopedic Disabilities (3 credits)

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)

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)

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)

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)

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)

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 104H Introduction to the Education Profession (1 credit)

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 291W Advanced Writing in Education Profession (3 credits)

Prerequisites: ENG 101 and sophomore standing.

Taught: Variable, check with department

Practice in a variety of expository forms; writing formal analytical essays; developing strong research skills; writing for several audiences and purposes;

forms of writing common to needs of the education profession.

EDU 294 Special Topics in Education (1-3 credits)

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 295 Introduction to Education for Honors (3 credits)

Taught: Variable, check with department

Introduction to Education for Honors

EDU 300H Human Growth and Development Honors (3 credits)

Prerequisites: PSY 100.

Taught: Fall and spring

Life-span human development; physical, cognitive, social, and personal development especially as these relate to children in school and to the adults who influence them; individual study focusing on student development at specific levels of instruction.

EDU 301 Interpersonal Interaction and Guidance (3 credits)

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)

Prerequisites: admission to the teacher education program.

Corequisites: 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)

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)

Corequisites: 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)

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 306 Teaching Elementary School Mathematics (3 credits)

Prerequisites: MAT 140 and MAT 141, each with minimum grade of C; satisfactory completion of professional semester I; admission to the teacher education program.
Corequisites: 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)

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)

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.
Corequisites: 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)

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)

Prerequisites: ENG 291 or ENG 151H; successful completion of the admissions practicum; admission to the teacher education program.
Corequisites: 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)

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)

Prerequisites: 6 semester hours of history/geography; successful completion of Professional Semester I; admission to the teacher education program.
Corequisites: EDU 306, EDU 308, EDU 315, and EDU 392.
Taught: Fall and spring
Objectives, curricula, and instructional materials.

EDU 313 Instructional Technology (2 credits)

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)

Prerequisites: admission to the teacher education program.
Corequisites: 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)

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 316H Racism and Sexism in Educational Institutions (3 credits)

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 317 Teaching of Phonics in Elementary/Middle School (3 credits)

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)

Prerequisites: Admission to the teacher education program.

Corequisites: 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)

Prerequisites: Admission to Teacher Education program.

Corequisites: EDU 393, EDU 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)

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)

Prerequisites: admission to the teacher education program.

Corequisites: 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)

Prerequisites: Admission to the Teacher Education Program.

Corequisites: 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)

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)

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)

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)

Prerequisites: Admission to Teacher Education program.

Corequisites: 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)

Prerequisites: admission to the teacher education program.

Corequisites: 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)

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)

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)

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)

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)

Prerequisites: admission to the teacher education program; successful completion of EDU 307.

Corequisites: 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)

Prerequisites: successful completion of EDU 309; admission to the teacher education program.

Corequisites: 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)

Prerequisites: successful completion of Elementary Practicum I.

Corequisites: 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)

Prerequisites: admission to the teacher education program.

Corequisites: 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)

Prerequisites: successful completion of Middle Grades Practicum I.

Corequisites: 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)

Prerequisites: Admission to the teacher education program.

Taught: Fall and spring

Application of learning theory to early childhood settings. Graded pass/fail.

EDU 396 Secondary Practicum II (2 credits)

Corequisites: 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)

Prerequisites: Successful completion of IECE Practicum I.

Taught: Fall and spring

Practice in planning and implementing instructional strategies in early childhood settings. Graded pass/fail.

EDU 399H International Admissions Practicum Honor (1 credit)

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)

Prerequisites: Overall 2.5 GPA and senior standing.

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.

EDU 491 Student Teaching with Early Childhood Endorsement (12 credits)

Prerequisites: admission to early childhood education student teaching program.

Taught: Fall and spring

Classroom experience through observation, planning and teaching supervised by an experienced teacher; eight-week assignment to an elementary classroom grades K-4; eight-week assignment to a special education program grades K-12.

EDU 492 Student Teaching in Elementary School with Special Education Endorsement (12 credits)

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 (12 credits)

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 (12 credits)

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 (12 credits)

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 (12 credits)

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 (12 credits)

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)

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)

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)

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)

Prerequisites: Admission to teacher education program and EDS 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)

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)

Prerequisites: Admission to Teacher Education and EDS 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)

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)

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)

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)

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)

Prerequisites: EDS 562 or equivalent.

Taught: Variable, check with department

This course will provide for preservice and inservice 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.

EDU 568 Administration and Supervision in Early Childhood Education (3 credits)

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 childcare 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)

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)

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)

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)

Prerequisites: COEHS Advising Center permission.

Taught: Variable, check with department Objectives, curricula, and instructional materials appropriate for the middle grades teacher.

EDU 599 Selected Problems in Education (1-3 credits)

Taught: Variable, check with department Individual or group indepth study of selected education topics.

EDG 630 Language and Learning Across the Curriculum (3 credits)

Taught: Fall, spring, and summer Current views of literacy; theories of literacy; approaches, methods, and materials of reading assessment, planning, and instruction. Required for standard elementary certification.

EDG 644 Aquatic Ecology for Teachers (3 credits)

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 645 Fundamentals of Environmental Education (3 credits)

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)

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)

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)

Corequisites: 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)

Corequisites: 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)

Taught: Variable, check with department Individual or group in depth study.

Engineering Technology Courses (EGT)**EGT 110 Introduction to Engineering/Technology (3 credits)**

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)

Taught: Fall and spring

Fundamentals of materials, processing methods, tools, and equipment used to produce metallic and nonmetallic products; destructive and nondestructive testing.

EGT 161 D.C. Circuit Analysis (3 credits)

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)

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)

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)

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)

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)

Prerequisites: 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)

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 (3 credits)

Prerequisites: ENG 101.

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 300 Statistics and Strength of Materials (1-3 credits)**

Prerequisites: MAT 128 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)

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)

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 316 Materials Processing and Fabrication (3 credits)

Prerequisites: consent of instructor.

Taught: Variable, check with department

Theory and application of surface treatment, casting, fabrication, separating, joining, shaping, and reducing using a variety of industrial materials.

EGT 318 Introduction to Nanotechnology (3 credits)

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)

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)

Prerequisites: MAT 119 and EGT 211.

Taught: Fall only-even years

The integration of systems required to improve work flow through the system, scheduling and coordination of projects. Systems of time management and work simplification; analysis of manufacturing and production problems including purchasing, work methods, inventory, material handling, production planning, and cost analysis.

EGT 340 Applied Dynamics (3 credits)

Prerequisites: 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)

Prerequisites: EGT 321.

Taught: Spring only-odd years

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)

Prerequisites: EGT 161 and MAT 119.

Taught: Spring only-odd years

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)

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)

Prereq OR Coreq: EGT 161.

Taught: Fall only-even years

Digital circuits; logic, registers, counters, arithmetic circuits, and memories.

EGT 348 Electric Cad (3 credits)

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)

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)

Prerequisites: EGT 212 and EGT 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)

Prerequisites: EGT 345.

Taught: Fall only-even years

Architecture and instruction sets; programming, interfacing, and designing with microprocessors.

EGT 380 Machine Design (3 credits)

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)

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)

Prerequisites: consent of adviser.

Taught: Variable, check with department

For advanced students seeking to study selected problems.

EGT 404 Signals and Systems (3 credits)

Prerequisites: EGT 343 and MAT 227.

Taught: Spring only-odd years

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)

Prerequisites: EGT 211 and EGT 212.

Taught: Spring only-even years

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)

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)

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)

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)

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)

Prerequisites: EGT 212.

Taught: Spring only-even years

Planning, estimating, designing, and modeling industrial facilities; management, personnel, production, aesthetics, and the environment.

EGT 448 Network Hardware (3 credits)

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)

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)

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)

Prerequisites: EGT 320 and EGT 365.

Taught: Spring only-odd years

Integrated manufacturing automation including CIM/FMS, system controls, fixed systems, robotics, and economics of automation.

EGT 467 Advanced Microprocessors (3 credits)

Prerequisites: EGT 345.

Taught: Spring only-even years

Advanced architectures, multitasking, virtual memory, networking, assembly language.

Electronic Media Broadcasting (EMB)

EMB 100 Media Literacy (3 credits)

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 (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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 360 Interviewing (3 credits)

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 JOU 360 and CMST 360.

EMB 361 Advanced Broadcast Newswriting (3 credits)

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)

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)

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)

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)

Prerequisites: written consent of the supervising faculty member; junior or senior standing; GPA of at least 2.75.

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.

EMB 397 Projects (3 credits)

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)

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)

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)

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)

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)

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)

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)

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 430 Communication Theories (3 credits)

Prerequisites: Completion of EMB 110 with a C or better.
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 JOU 430 and CMST 430.

EMB 435 Media Studies (3 credits)

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)

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)

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)

Prerequisites: Junior or senior standing; minimum GPA of 2.50; written consent of instructor.

Taught: Variable, check with department
Individually supervised work involving reading, research and/or production in a specified area of interest. Topic selected before registration in conference with instructor. May be repeated for a maximum of 6 semester hours.

English Developmental Courses (ENGD)

ENGD 080 Writing Laboratory (1 credit)

Corequisites: 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)

Corequisites: 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 (3 credits)

Prerequisites: English and Reading ACT/SAT/COMPASS scores as announced in current Schedule of Classes; OR placement test; OR, depending upon placement, ENG 090 and/or LAP 091.

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 (3 credits)

Prerequisites: 26 or above on the current ACT or comparable score on the enhanced ACT, or equivalent; evidence of writing proficiency; approval of department.

Taught: Fall and spring
Advanced study and practice of writing with attention to both narrative and rhetorical writing strategies; attention to audience, purpose, and conventions appropriate to writing situations; reading, writing, and analyzing a variety of texts, including written, digital, or visual.

General education credit: Written Communication II

General education credit: Written Communication I

ENG 200 Understanding Literature (3 credits)

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)

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)

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)

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)

Prerequisites: ENG 101 or ENG 151.

Taught: Fall only

An introduction to the study of written communication with an emphasis on histories and models of writing, textual analysis, and technologies of writing. Students will investigate a variety of genres in professional writing, public writing, personal and autobiographical writing, writing for new media, and persuasive writing.

ENG 205 Contemporary Issues in Writing Studies (3 credits)

Prerequisites: ENG 101 or ENG 151 or equivalent.

Taught: Spring only

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)

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)

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)

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)

Prerequisites: ENG 101 or 151 or equivalent.

Taught: Fall and spring

Civil War to the present.

ENG 211 Survey of Women's Literature I (3 credits)

Prerequisites: ENG 101 or ENG 151 or equivalent.

Taught: Fall, winter, spring and summer

Writing from many genres by women of many cultures from antiquity through the 19th century.

ENG 213 Global Viewpoints in Literature (3 credits)

Prerequisites: ENG 101 or ENG 151H or equivalent.

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 (3 credits)

Prerequisites: ENG 101 or ENG 151H or equivalent.

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)

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)

Prerequisites: ENG 101, 151 or equivalent.

Taught: Fall only

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)

Prerequisites: ENG 101, 151 or equivalent.

Taught: Spring only

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)

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)

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 (3 credits)

Prerequisites: ENG 101.

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)

Prerequisites: 3 semester hours of literature.

Taught: Variable, check with department
Lives and works of selected poets, including African-Americans. IDENTITIES.

ENG 301 American Novel (3 credits)

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 (3 credits)

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)

Prerequisites: 3 semester hours of literature.

Taught: Fall only-odd years

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.

ENG 305 American Women Writers (3 credits)

Prerequisites: 3 semester hours of literature.

Taught: Variable, check with department
Works representing a variety of literary forms by American women writers, from the 17th through the 20th century. IDENTITIES.

ENG 306 Multicultural American Literature (3 credits)

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)

Prerequisites: 3 semester hours of literature.

Taught: Fall and spring

The early period, the English histories, the comedies, and Hamlet. TRADITIONS (PRE-1800, PRE-1900).

ENG 309 Shakespeare II (3 credits)

Prerequisites: 3 semester hours of literature.

Taught: Fall and spring

Plays not studied in ENG 308, including the romances, satires, and tragedies. TRADITIONS (PRE-1800, PRE-1900).

ENG 313 Middle Eastern Literature (3 credits)

Prerequisites: 3 semester hours of literature.

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.

ENG 315 The Bible as Literature (3 credits)

Prerequisites: 3 semester hours of literature.

Taught: Variable, check with department
Nonsectarian presentation of biblical history, ideas and literary forms and techniques. GENRES.

ENG 316 Social Issues in Literature (3 credits)

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)

Prerequisites: 3 semester hours of literature.

Taught: Variable, check with department
An historical, critical, and evaluative study of the short story as a distinct literary genre. GENRES.

ENG 320 Satire (3 credits)

Prerequisites: 3 semester hours of literature.

Taught: Variable, check with department
Techniques of the satirist and the development of satire, especially in prose. GENRES.

ENG 322 Literature and Sexuality (3 credits)

Prerequisites: ENG 101, ENG 151H or equivalent.

Taught: Spring only-odd years

Literature and theory by writers who identify as lesbian, gay, bisexual, and/or

trans-gendered or who represent these identities in literature. IDENTITIES.

ENG 324 Holocaust Literature (3 credits)

Prerequisites: ENG 101, ENG 151H or equivalent.

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.

ENG 326 Literature and the Environment (3 credits)

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.

ENG 331 Persuasive Writing (3 credits)

Prerequisites: ENG 291 or equivalent.

Taught: Variable, check with department
Theory and practice of contemporary and classical persuasion analysis of professional writing and student themes. WRITING STUDIES.

ENG 332 Fiction Writing (3 credits)

Prerequisites: ENG 231.

Taught: Fall only

Techniques of short story, novelette, novel, and drama in-class analysis of student work and the subsequent revision, reevaluation, and marketing of student writing. CREATIVE WRITING.

ENG 334 Poetry Writing (3 credits)

Prerequisites: ENG 231.

Taught: Spring only

Practice in techniques of writing poetry in-class analysis of student poems and the subsequent revision, reevaluation, and marketing of student work. CREATIVE WRITING.

ENG 336 Creative Non-Fiction Writing (3 credits)

Prerequisites: ENG 231.

Taught: Spring only

Students hone craft and voice while writing and workshopping creative nonfiction.

ENG 338 Writing for Social Change (3 credits)

Prerequisites: ENG 291, 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.

ENG 340 Business Writing (3 credits)

Prerequisites: ENG 291 or equivalent.

Taught: Fall and spring

Practical experience in business writing proposals, resumes, letters, reports, and memoranda. For students majoring in business as well as other students who anticipate professional careers involving on-the-job writing tasks. WRITING STUDIES.

ENG 345 Legal Writing (3 credits)

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.

ENG 347 Technical Writing (3 credits)

Prerequisites: ENG 291 or equivalent.

Taught: Fall and spring

Principles and techniques of technical writing, including proposals, lab reports, job applications, graphics, and feasibility studies. Recommended for students in sciences, public administration, social services, industry, and health and computer fields. Prepares students for cooperative writing internships in industries or agencies. WRITING STUDIES.

ENG 348 Professional Editing in the Workplace (3 credits)

Prerequisites: ENG 291 or equivalent with C or better.

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.

ENG 349 Web Writing for the Professions (3 credits)

Prerequisites: ENG 291 or equivalent.

Taught: Fall only

Theoretical and practical grounding in analyzing, planning, and implementing web-based publications, including integration of textual/visual materials and use of industry standard Internet publishing tools. Students will learn to assess client needs and test site usability by creating several web pages, including a multi-layer website for a real-world client. WRITING STUDIES.

ENG 350 Literary Criticism (3 credits)

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)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department

Themes and techniques of particular importance in contemporary American novels. GENRES.

ENG 357 Biographical Writing (3 credits)

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. WRITING STUDIES/CREATIVE WRITING.

ENG 358 Writing in Creative Genres (3 credits)

Prerequisites: ENG 231.

Taught: Variable, check with department

Principles and techniques of creative writing in a specialized genre such as children's creative non-fiction, fantasy, dramatic, etc. in-class analysis of student work with subsequent revisions. May be repeated for credit when genre changes. CREATIVE WRITING.

ENG 359 Writing in Workplace Genres (3 credits)

Prerequisites: ENG 291 or equivalent.

Taught: Variable, check with department

Principles and techniques of workplace writing in a specialized genre, such as business report writing, manual writing, grant writing, proposal writing, etc. In-class analysis of student work with

subsequent revisions. Repeatable for 3 credit hours when genre changes. WRITING STUDIES.

ENG 362 Studies in Dramatic Literature (3 credits)

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)

Prerequisites: 3 semester hours of literature.

Taught: Fall and spring

Study of the use of folklore in American literature. GENRES.

ENG 366 Studies in Literary Genres (3 credits)

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.

ENG 368 The Graphic Novel (3 credits)

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.

ENG 371 Traditional Grammar (3 credits)

Prerequisites: ENG 101 or ENG 151H with a grade of C or better.

Taught: Fall and spring

This course provides an understanding of sentence parts and patterns, punctuation, usage, and sensitivity to style. Such instruction in traditional grammar can help students (a) write correctly and effectively, (b) apply logical thinking, (c) become wise analysts of texts, and (d) teach others conventional uses of language. WRITING STUDIES.

ENG 380 Studies in Literature and Other Arts (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Spring only-odd years

Literary works compared with musical compositions, with paintings, or with both music and painting. May be repeated for credit when topics vary. GENRES.

ENG 381 Introduction to Linguistics (3 credits)

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)

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.

ENG 384 Modern Poetry (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Prosodic theory practice in interpretation of poetic texts. GENRES.

ENG 385 Teaching of English I (3 credits)

Prerequisites: admission to teacher education program or valid secondary teaching certificate.

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)

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)

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)

Prerequisites: ENG 291 or equivalent.

Taught: Variable, check with department

Introduction to evaluation of manuscripts, proofreading, 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)

Prerequisites: 6 hours semester hours of literature.

Taught: Variable, check with department
Study of Geoffrey Chaucer's poetry, including the Canterbury Tales and possibly Troilus and Criseyde, the shorter poems, and/or postmedieval transmissions of Chaucer's works. TRADITIONS (PRE-1800, PRE-1900).

ENG 402 Middle English Literature (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Language and literature of Anglo Saxon England. TRADITIONS (PRE-1800, PRE-1900).

ENG 403 Old English (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Language and literature of Anglo Saxon England. TRADITIONS (PRE-1800, PRE-1900).

ENG 404 Arthurian Legend (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Advanced study of medieval origins of the legend of King Arthur. May also consider post-medieval transmission of the Arthurian tradition in literary texts, film, etc. TRADITIONS (PRE-1800, PRE-1900).

ENG 411 Elizabethan Literature (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
The period of Marlowe, Sidney, Spenser, and Shakespeare. TRADITIONS (PRE-1800, PRE-1900).

ENG 412 Seventeenth Century Literature (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department

Dramatic works written in Elizabethan and Jacobean England. GENRES.

ENG 414 English Renaissance Drama (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Shakespeare's predecessors and contemporaries. Pre-1800 British Literature credit.

ENG 416 Studies in Renaissance Literature (3 credits)

Prerequisites: 6 semester hours of literature.

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).

ENG 418 Gender and Early Modern Literature (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Explores constructions of femininity and masculinity in literature of the early modern period (Renaissance and/or 17th and 18th centuries). IDENTITIES.

ENG 420 Pre 1800 Exploration/Travel Literature (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Comparative study of the rhetoric, contexts, and uses of pre-1800, pre-1900 exploration and travel narratives, particularly those depicting cross-cultural encounters and non-Western landscapes. GENRES.

ENG 421 Restoration and Eighteenth Century Literature (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Significant works of literature written between 1660 and 1798; satire, comedy of manners, novel, and poetry in the context of social backgrounds. TRADITIONS (PRE-1800, PRE-1900).

ENG 422 Studies in Eighteenth Century Literature (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Ideas and themes in several works, or in a single major writer, or in a circle of writers; content varies. May be repeated for credit when content varies. TRADITIONS (PRE-1800, PRE-1900).

ENG 425 Eighteenth Century British Novel (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Critical approaches to selected novels by British authors ranging from Daniel Defoe and Samuel Richardson to Frances Burney and Jane Austen; novelistic modes such as picaresque, epistolary, gothic, and novel of manners. TRADITIONS (PRE-1800, PRE-1900).

ENG 430 Advanced Poetry Writing (3 credits)

Prerequisites: ENG 231.

Taught: Variable, check with department
Intensive advanced practice in poetry writing, concentrating on form and poetics. CREATIVE WRITING.

ENG 431 Screenwriting (3 credits)

Prerequisites: ENG 231 or equivalent.

Taught: Variable, check with department
Analysis of professional and student screenplays completion of a script for feature length film, episode of a contemporary TV show, adaptation of a novel or short story, docudrama, or documentary film. CREATIVE WRITING.

ENG 432 Novel Writing (3 credits)

Prerequisites: ENG 231.

Taught: Fall only
Explores the particular requirements of the novel form. Examines the creation of effective characterization, setting, themes and plots. Demands substantial reading, writing, and outside research. CREATIVE WRITING.

ENG 433 Novel Writing II (3 credits)

Prerequisites: ENG 432.

Taught: Spring only
Continuation of Novel Writing I focusing on issues specific to writing the middle and ending of a novel. CREATIVE WRITING.

ENG 442 Studies in British Literature (3 credits)

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.

ENG 446 British Novel (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Selected novels from various periods narrative technique, historical context, and social implications. GENRES. A general education course (literature or humanities).

ENG 451 Romantic Literature (3 credits)

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)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Poetry, fiction, prose, and myth in the age of Tennyson, Hardy, Carlyle, and Eliot. TRADITIONS (PRE-1900).

ENG 454 Nineteenth Century British Novel (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Aesthetic and analytical approach to major British novels of the 19th century. GENRES.

ENG 456 The Gothic in Literature and the Arts (3 credits)

Prerequisites: 6 semesters of literature.

Taught: Variable, check with department
Study of the Gothic mode in literature and other arts, such as architecture, film, and the visual arts. GENRES.

ENG 461 Nineteenth Century American Literature (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Major authors of 19th century American fiction, essays, and poetry. May be

repeated once for credit when topics vary. TRADITIONS (PRE-1900).

ENG 462 Modern American Literature (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Trends in form and content in 20th century American writing. May be repeated once for credit when topics vary. TRADITIONS (POST-1900).

ENG 463 Studies in Regional American Literature (3 credits)

Prerequisites: 6 semester hours of literature or consent of instructor.

Taught: Variable, check with department
Various regional literatures, e.g., those of Kentucky and southern Appalachia. May be repeated for credit when topics vary. IDENTITIES.

ENG 464 Studies in American Literature (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Works reflecting a common theme, genre, era, or literary movement. May be repeated for credit when topics vary. TRADITIONS.

ENG 465 Southern Women Writers (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Selected fiction by southern women writers, especially focusing on issues of race, class, gender, and regional identity. IDENTITIES.

ENG 467 Studies in African-American Literature (3 credits)

Prerequisites: 3 semester hours of literature.

Taught: Variable, check with department
Various periods and kinds of African American literature issues of ethnicity race and sex gender; cultural, political, economic, and social issues. May be repeated when topics vary. IDENTITIES.

ENG 468 Gender in 19th-Century American Literature (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Investigates ways in which gender informs literature in 19th century American society and how literature reflects gender. IDENTITIES.

ENG 470 Twentieth Century British Novel (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Aesthetic and analytical approach to major British novels of the 20th century. GENRES.

ENG 472 Studies in British Modernism (3 credits)

Prerequisites: 6 semester hours of literature.

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).

ENG 473 Studies in Contemporary British Literature (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Post-1950 British Literature by selected authors, reflecting aesthetic, social, political, intellectual, and economic trends. TRADITIONS (POST- 1900).

ENG 474 Studies in Postmodern Literature (3 credits)

Prerequisites: 6 semesters of literature.

Taught: Variable, check with department
Twentieth-century literature written primarily after WWII and representing a conscious attempt to move beyond the modes and thematics of the High Modernists. May be repeated once for credit when topics vary. TRADITIONS (POST-1900).

ENG 475 Post-Colonial Literature and Theory (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Development of major themes, techniques, and theories of post-colonial writing, including issues of appropriation, literary hybridity, cultural hegemony, and Otherness. IDENTITIES.

ENG 477 Irish Literary Renaissance (3 credits)

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department
Works associated with the Irish Literary Renaissance (1880-1939), a movement dedicated to creating a literature based

on Irish history, legend, and folklore. Writers may include Yeats, Joyce, Synge, Gregory, O'Casey. IDENTITIES.

ENG 485 Feminist Literary Theory (3 credits)

Prerequisites: 3 semester hours of literature.

Taught: Variable, check with department
A particular theoretical approach, issue, or problem. May be repeated for credit when content varies. TRADITIONS (POST-1900).

ENG 494 Senior Seminar (3 credits)

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)

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)

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)

Prerequisites: 6 semester hours of literature and consent of instructor.

Taught: Variable, check with department
Open to outstanding students.

ENG 500 Poetry (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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 560 American Literature Before 1865 (3 credits)

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 565 American Literature After 1865 (3 credits)

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)

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)

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 581 Major Authors (3 credits)

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)

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.

ENGI 080 Writing Laboratory for International Students (1 credit)

Corequisites: ENGI 099.

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)

Corequisites: ENGI 080.

Taught: Fall and spring
Practice in a variety of writing forms, selecting topics, working through the writing process. For international students needing additional preparation for ENG 101. Not applicable toward graduation.

Entrepreneurship Courses (ENTP)**ENTP 150 Overview of Accounting (3 credits)**

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)

Taught: Variable, check with department

Overview course using applied learning to introduce students to entrepreneurship. Open to students not certified as business majors.

ENTP 300 Principles of Entrepreneurship (3 credits)

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)

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)

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)

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)

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)

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)

Prerequisites: ENTP 150 and ENTP 300.

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)

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 advise's approval may be repeated up to three times for elective credit when topics change.

ENTP 396 Entrepreneurial Internship (3 credits)

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)

Prerequisites: ENTP 150 or ACC 200 and ACC 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)

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 (3 credits)

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 (3 credits)

Prerequisites: minimum score of 24 on ACT.

Taught: Variable, check with department
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)

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 (3 credits)

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 (1 credit)

Corequisites: 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 (3 credits)

Prerequisites: ENG 101 or ENG 151, and ENV 110.

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. A general education course (Written Communication).

General education credit: Written Communication II

ENV 350 Environmental Toxicology (3 credits)

Prerequisites: BIO 304, BIO 304L and CHE 311.

Taught: Variable, check with department

A non-laboratory course designed for the junior year covering the principles of environmental toxicology. The content focuses on properties of toxic chemicals that influence their distribution and transformation in the environment; action of environmental forces that affect toxicant breakdown, movement, and accumulation; sources and occurrences of major classes of environmental toxicants, and risk assessment.

ENV 380 Field Laboratory Methods in Environmental Sciences (2 credits)

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)

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)

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)

Prerequisites: ENV 255 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 (1 credit)

Taught: Variable, check with department

Discussion and analysis of current environmental problems. For junior and senior students major/minor in environmental science.

ENV 578 Environmental Issues for Educators (3 credits)

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)

Prerequisites: Sophomore standing.

Taught: Fall only

Practical and realistic methods to manage the basic concepts of personal finances effectively; covers the basics related to managing your personnel assets, credit, insurance, investments, retirement and estate planning.

FIN 305 Principles of Finance (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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 (3 credits)**

Taught: Fall and spring

Basic principles; development of skills in reading, writing, pronunciation, and conversation.

General education credit: Culture and Creativity

FRE 102 Elementary French II (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

Prerequisites: FRE 202 or equivalent.
Taught: Variable, check with department
Survey of films produced in the French language. Emphasizes both the aesthetic aspects of the films as well as their historical, political, social and cultural content. May be repeated as topics vary.

FRE 340 Business French (1 credit)

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)

Prerequisites: 6 semester hours of French at the 300 level or above.
Taught: Spring only-even years
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)

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)

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)

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)

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)

Prerequisites: consent of instructor.
Taught: Variable, check with department
Readings in language and literature; readings in scientific literature.

FRE 520 Readings: French (3 credits)

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 (3 credits)

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)

Taught: Fall and spring
The world's regions; settlements, resource use, culture groups, and political patterns.

GEO 101H Honors World Regional Geography (3 credits)

Prerequisites: ACT Comp 24 or greater; SAT Total 1110 or greater.
Taught: Variable, check with department
The world's regions; settlements, resource use, culture groups, and political patterns.

GEO 103 Geography of the Third World (3 credits)

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)

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 (3 credits)

Taught: Fall and spring
Acquaints students with the integration of key physical, chemical, and biological processes that produce the climate, soil, vegetation, and landform patterns on the Earth's surface.

General education credit: Natural Science

GEO 301 Urban Geography (3 credits)

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)

Taught: Spring only-odd years
Impact of various cultures on landscape; distribution of culture traits; development of culture areas.

GEO 303 Economic Geography (3 credits)

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)

Prerequisites: 3 hours of Geography 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)

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)

Taught: Spring only-odd years
Physical basis of climate and weather; distribution of climatic types.

GEO 309 Historical Geography of the U.S. (3 credits)

Taught: Spring only-odd years
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)

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)

Prerequisites: 3 semester hours of geography.
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 316 Computer Cartography (3 credits)

Taught: Variable, check with department
Introduction to use of computers in geography; thematic mapping; graphic display of geographic information; employment of current cartographic software packages; application of computer mapping to geographic problems.

GEO 327 Field Mapping in Geography (3 credits)

Prerequisites: 3 semester hours of geography.
Taught: Variable, check with department
Field mapping and field exploration in the geography of Kentucky; overview of primary mapping techniques such as Surveying, Global Positioning System (GPS) and Remotely Sensed data. Ground truthing of image data and classification results and introduction to techniques of sampling, observation and spatial location procedures. Class includes a weekend field trip.

GEO 330 Geography of Religion (3 credits)

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)

Taught: Spring only-even years
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)

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 352 Spatial Data Bases (3 credits)

Taught: Spring only-odd years

GEO 370 Geography Methods and Applications (1 credit)

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)

Prerequisites: 3 hours of geography 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)

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)

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)*Taught: Spring only-even years*

Physical, cultural, economic, and political patterns of Africa, primarily south of the Sahara.

GEO 406 Geography of Latin America (3 credits)*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)*Taught: Spring only-odd years*

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)*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)*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)*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)*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)*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)*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)*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)*Prerequisites: consent of instructor.*

Taught: Variable, check with department
Individually supervised readings on a selected area of geography.

GEO 502 Geography of Kentucky (3 credits)*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)*Prerequisites: 3 semester hours of Geography or consent of instructor.*

Taught: Spring only-odd years
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)*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)*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)*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)*Prerequisites: A 100-level GEO course or consent of instructor.*

Taught: Spring only-even years
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)*Prerequisites: GEO 410 or consent of instructor.*

Taught: Spring only-even years
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)*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)

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)

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)

GER 101 Elementary German I (3 credits)

Taught: Fall and spring

Fundamentals; development of skills in grammar, pronunciation, conversation, and reading.

General education credit: Culture and Creativity

GER 102 Elementary German II (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

Prerequisites: GER 202 or equivalent.

Taught: Variable, check with department
Survey of films produced in the German language. Emphasizes both the aesthetic aspects of the films as well as their historical, political, social and cultural content. May be repeated as topics vary.

GER 340 Business German (3 credits)

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)

Prerequisites: GER 202 or appropriate placement score.

Taught: Spring only-odd years
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)

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)

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)

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)

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)

Prerequisites: consent of instructor.

Taught: Variable, check with department
Readings in language and literature; readings of scientific literature.

GER 520 Readings: German (3 credits)

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 (4 credits)

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 (3 credits)

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 (1 credit)

Corequisites: 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.

General education credit: Natural Science

GLY 150 Introduction to Field Paleontology (3 credits)

Taught: Summer only

Introduction in methods of field paleontology. This will include safety procedures, collection and documentation of samples and methods of scientific protocol for sample preservation.

GLY 220 History of the Earth (3 credits)

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)

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 (3 credits)

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)

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)

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 294 Topics: Geology (1-3 credits)

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)

Prerequisites: GLY 110.

Taught: Variable, check with department
Primary and secondary structures of the earth's crust.

GLY 316L Geologic Field Trip (1 credit)

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)

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)

Prerequisites: GLY 110.

Taught: Variable, check with department

Description and interpretation of land forms.

GLY 335 Earth Materials (4 credits)

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)

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)

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)

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 392 Directed Research: Geology (1-4 credits)

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)

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)

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)

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)

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)

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)

Prerequisites: Six hours of geology courses.

Taught: Variable, check with department

Physical and biological bases of stratigraphy; processes of formation and environments of deposition of sedimentary rocks.

GLY 435 Sedimentary Petrology and Petrography (4 credits)

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)

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)

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)

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)

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)

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)

Prerequisites: Geology GPA of at least 3.00, junior standing and consent of instructor.

Taught: Fall, spring, and summer
Participation in planning, setting up, teaching, conducting reviews, and testing in an undergraduate laboratory course. For students majoring in geology. Up to 6.0 semester hours may be earned in this course.

GLY 496 Externship: Geology (1-3 credits)

Prerequisites: Six hours of geology courses.

Taught: Fall, spring, and summer
Off-campus learning at institutions, universities or businesses conducting geologic studies. Course may be repeated for new externship projects; up to 4 semester hours total may be earned in this course. For students majoring or minoring in Geology or Environmental Science.

Health Education Courses (HEA)**HEA 125 Introduction to Health Education (3 credits)**

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)

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)

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)

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)

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)

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)

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)

Corequisites: 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)

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. *Prerequisites:* (undergraduates): admission to teacher education and 9 semester hours in health education or consent of instructor.

HEA 599 Topics: Health Education (1-3 credits)

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)**

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 (3 credits)

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)

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)

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)

Prerequisites: Health Science major or consent of instructor.

Prereq OR Coreq: 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)

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)

Prerequisite: Health Science major or consent of instructor.

Taught: Fall and spring

Role development as a health care provider with respect to patient care in the clinical setting; patient management to include scopes of practice, ethical/legal issues, patient assessment and response, managing the critical care and special needs patient, and emergency preparedness.

HSC 480 Senior Seminar (3 credits)

Prereq OR Coreq: 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)

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)

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)

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)**

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)

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 (3 credits)

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 (3 credits)

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)

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)

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)

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)

Taught: Fall and spring

Political, social, economic and cultural development of major world societies in the modern era.

HIS 111 Global Viewpoints in History (3 credits)

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)

Prerequisites: a composite score of 24 on current ACT or equivalent; or HNR GPA of 3.25 or higher.

Taught: Variable, check with department

Research methods and materials of the historian; usefulness of historical analysis to students in many disciplines. An alternative to the 100 level survey courses for students who have demonstrated outstanding potential in history.

HIS 291W Advanced Historical Writing (3 credits)*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)*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)*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)*Taught: Fall only*

Developments from the 4th through the 15th centuries.

HIS 304 Renaissance Europe (3 credits)*Taught: Spring only*

Developments from Petrarch to the Treaty of Westphalia; significant cultural and religious trends.

HIS 305 Reformation Europe (3 credits)*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)*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)*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)*Taught: Fall only*

Origins and development of the English colonies.

HIS 311 Independence and Constitution 1763-1789 (3 credits)*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)*Taught: Spring only-odd years*

Successful consolidation of the U.S. as a modern nation-state.

HIS 313 Expansion and Conflict 1828-1861 (3 credits)*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)*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)*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)*Taught: Variable, check with department*

Major political and social changes since 1939.

HIS 317 History of the New South (3 credits)*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 1950s, 60s, and 70s.

HIS 318 Current Events: Historical Perspective (3 credits)*Taught: Variable, check with department*

Historical background of significant recent events in U.S. history.

HIS 319 Conflicting Historical Viewpoints (3 credits)*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)*Taught: Fall and spring*

The "Third World" nations; problems resulting from conflicting dynamics of independence and modernization.

HIS 322 History of Naval Warfare (3 credits)*Taught: Variable, check with department*

Development of fighting ships in western culture; interaction between social and technological factors and warfare on the high seas.

HIS 323 United States Military History (3 credits)*Taught: Variable, check with department*

U.S. military history from colonial times to the present; operations; interaction between war and society.

HIS 325 Early Latin American History (3 credits)*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)*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 327 Anglo-American Legal History (3 credits)*Taught: Variable, check with department*

Origin and development of the Common Law from Norman beginnings to the present; emphasis on U.S.

HIS 329 History of the Middle East and North Africa (3 credits)

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)

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 331 History of Japan (3 credits)

Taught: Fall only-odd years

Traditional and modern Japan; cultural, political, religious and philosophical survey.

HIS 332 World Civilizations to 1550 (3 credits)

Prerequisites: A 100-level history course or consent of instructor.

Taught: Variable, check with department
Economic, social, political, and cultural aspects of major western and non-Western civilizations prior to the era of western world dominance.

HIS 333 Contemporary History (3 credits)

Prerequisites: A 100-level history course or consent of instructor.

Taught: Variable, check with department
The major western and non-Western civilizations' economic, social, political and cultural evolution in the modern era.

HIS 335 History of Ancient Africa (3 credits)

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)

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 340 History of Imperial China (3 credits)

Prerequisites: A 100-level history course or consent of instructor.

Taught: Variable, check with department
Intro to Chinese history of the Imperial era from 5000 B.C. to the Ming Dynasty in the mid 17th century, emphasizing the driving forces, formative movements and ideas that have shaped the Middle Kingdom until the early-modern era. It assumes no prior knowledge of Chinese history or language.

HIS 341 History of Revolutionary China (3 credits)

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)

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)

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)

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)

Taught: Spring only-even years

From the founding of the Tudor dynasty to the accession of George III.

HIS 355 British History 1760 - Present (3 credits)

Taught: Fall only-even years

From the accession of George III to the present.

HIS 362 History of Germany to 1870 (3 credits)

Taught: Variable, check with department
From the Holy Roman Empire to emergence of modern nationalism and the Industrial Revolution.

HIS 363 History of Germany since 1870 (3 credits)

Taught: Variable, check with department
Cultural, political, and social developments since founding of the German Empire.

HIS 365 European Military History: Ancient World to the Renaissance (3 credits)

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)

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)

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)

Prerequisites: 3 hours of history.

Taught: Spring only-odd years
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)

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)

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)*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 385 Art and Method of History (3 credits)*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 409 The French Revolution (3 credits)*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)*Taught: Spring only-even years*

Origins, dimensions, and downfall of Hitler's fascist state.

HIS 414 The Holocaust (3 credits)*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 416 Plains Indians (3 credits)*Taught: Variable, check with department*

A history of the Sioux, Cheyenne, Comanche, Nez Perce, and Apache, concentrating on the post Civil War era and especially on the fate of these peoples at the hands of white civilization.

HIS 417 Civil War and Reconstruction, 1860-1877 (3 credits)*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)*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)*Taught: Spring only-even years*

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)*Taught: Variable, check with department*

U.S. life and thought as reflected in Puritanism, in the Enlightenment, in Jacksonian nationalism, and in social and political reform movements in the mid-19th century.

HIS 422 Cultural and Intellectual History of the US since 1875 (3 credits)*Taught: Variable, check with department*

Exploration of the U.S. mind and character in the last 100 years; influences of Darwinian thought, reformism, urbanization, cultural nationalism, and contemporary social tensions.

HIS 423 Diplomacy and Foreign Policy of the United States (3 credits)*Taught: Variable, check with department*

Principles, historical evolution, and particular nuances of U.S. foreign policy.

HIS 424 American Diplomacy to 1900 (3 credits)*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)*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)*Taught: Spring only-odd years*

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 427 Urban History of the United States (3 credits)*Taught: Variable, check with department*

Origins and growth of cities; impact of cities upon U.S. development; contemporary urban problems.

HIS 431 Historical Themes in African-American History (3 credits)*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)*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)*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)*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)

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)

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)

Prerequisites: HIS 103.

Taught: Spring only-odd 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.

HIS 454 Early American Frontier (3 credits)

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)

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, sociological degradation, economic/social development and modernization.

HIS 470 History of Flight (3 credits)

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)

Taught: Variable, check with department
Representative battles from Hastings to the Alamo; reveals the interaction between western civilization and its military conflicts.

HIS 474 Battles and Behavior II: 1854-1984 (3 credits)

Taught: Variable, check with department
Representative battles from the Crimea to Star Wars; reveals the interaction between western civilization and its military conflicts.

HIS 475 The First World War (3 credits)

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)

Taught: Spring only-even years
Origins and prosecution of the war; military and diplomatic aspects from an international perspective.

HIS 485 History of Terrorism (3 credits)

Prerequisites: 3 hours of history.

Taught: Spring only-odd years
A global examination of the historical evolution and significance of terrorism.

HIS 486 History of Modern Ireland (3 credits)

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)

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)

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)

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)

Prerequisites: HIS 329 and HIS 330 or consent of instructor.

Taught: Spring only-even years
Political, social, diplomatic, and military aspects of the history of Palestinian/Israeli conflict in the context of the Cold War.

HIS 513 The French Revolution (3 credits)

Taught: Variable, check with department
Political, economic, and cultural background of the French Revolution, emphasizing the changing character of the Revolution as it moved in phases from moderate and middle class to radical and violent.

HIS 515 Introduction to Public History (3 credits)

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 522 Introduction to Historic Preservation (3 credits)

Prerequisites: A 100 level HIS course and consent of instructor.

Taught: Spring only-even years
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 533 Causes of the Civil War (3 credits)*Taught: Spring only-odd years*

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)*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)*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)*Taught: Spring only-even years*

Social and political developments from 1939 to contemporary society including the Civil Rights Movement.

HIS 541 History of Kentucky (3 credits)*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 543 History of the American Frontier (3 credits)*Taught: Spring only-even years*

The westward movement and its effect on national character; expansionism; Indian and land policies; cattle and mining frontiers.

HIS 546 History of American Family (3 credits)*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)*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)*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)*Prerequisites: 3 hours of history or consent of instructor.**Taught: Spring only-odd years*

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)*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)*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)*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 556 African Americans in U.S. Culture, Education, and Politics (3 credits)*Taught: Variable, check with department*

African Americans and their interactions within and their contributions to cultural,

educational, and political development of the U.S.

HIS 557 History of Indians in the United States (3 credits)*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)*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)*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)*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)*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)*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)*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)

Taught: Variable, check with department
Lecture class in topic not included in regular history curriculum. May be repeated for credit when topics vary.

HIS 596 Internship: History (3 credits)

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)

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)

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)

HNR 101 Honors First-Year Seminar (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

Taught: Fall and spring

HNR 491 Honors Capstone Project (0-3 credits)

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)

HSR 100 Orientation to Mental Health/Human Services (3 credits)

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)

Prerequisites: consent of instructor.

Corequisites: 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)

Corequisites: HSR 102.

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)

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)

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)

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)

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 shaving particular expertise in various issues.

HSR 302 Rehabilitation of the Geriatric Patient (3 credits)

Prerequisites: HSR 306 or consent of instructor.

Taught: Variable, check with department

Service stating geriatric patients; impediments blocking continued independent living; use and maintenance of mechanical and prosthetic devices facilitating the rehabilitative process; instruction in making home visits, using effective rehabilitation teaching methods, and activities of daily living.

HSR 303 Multicultural Issues in Human Services (3 credits)

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)

Prerequisites: HSR 207.

Corequisites: 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)

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)

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)

Taught: Spring only

Practice oriented approach to understanding and working with individuals and families experiencing immediate crisis; dynamics of the crisis experience; recognizing the crisis situation; interviewing clients in crisis; developing and implementing coping strategies; utilizing resource and support systems; and referral.

HSR 314 Death, Dying, and Grief (3 credits)

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 321 Mental Health and Aging (3 credits)

Prerequisites: HSR 306 or consent of instructor.

Taught: Variable, check with department

Psychological, biological, and social factors affecting mental and emotional functioning in old age; strategies for assessment of and intervention in behavioral disorders; methods to identify and utilize family, community, medical, and long term care support systems.

HSR 326 Behavior Problems of Children (3 credits)

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)*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)*Prerequisites: HSR 304 or consent of instructor.**Corequisites: 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 410 Psychosocial Forces in Late Life (3 credits)*Prerequisites: HSR 306 or consent of instructor.**Taught: Variable, check with department*

Analysis of theory and research on psycho social aspects of aging; age stratification and patterns of interaction among cohorts; influences of family on individual life cycle; implications of retirement demographics after 60; impact of major institutions on older adults.

HSR 412 Leadership Skills for Small Groups (3 credits)*Prerequisites: HSR 216, junior standing, or consent of instructor.**Corequisites: 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)*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)*Prerequisites: PAD 300 or consent of instructor.**Corequisites: 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)*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)*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)*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)*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, com-munication/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)*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)**HRM 300 Introduction to Labor Relations (3 credits)***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)*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)

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)

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)

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)

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)

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)

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)**

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)

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)

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 (3 credits)

Prerequisites: C- or better in MAHD 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)

Prerequisites: CMST 101 and one of the following INF 101, INF 110, or INF 120.

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)

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)

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)

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)

Corequisites: 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)

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)

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)

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. 09 (or higher and INF 110 or INF 120).

INF 294 Topics: Informatics (3 credits)

Prerequisites: varies with topic (see Schedule of Classes).

Taught: Variable, check with department

Various topics in Informatics.

INF 299 Introductory Independent Study (3 credits)

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)

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)

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)

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)

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)

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)

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 credit)**

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)

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)

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.

IST 594 Interdisciplinary Seminar (1-3 credits)

Taught: Variable, check with department

This seminar provides graduate students and advanced undergraduate students with opportunities for in-depth study of important interdisciplinary topics or issues. 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 (3 credits)

Taught: Fall only

Fundamentals; development of skills in grammar, pronunciation, conversation, and reading.

General education credit: Culture and Creativity

ITA 102 Elementary Italian II (3 credits)

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)

Prerequisites: ITA 102 or equivalent.

Taught: Fall only

Review and extension of basic language skills acquired in ITA 101 and ITA 102; reading and discussion of cultural and literary subjects.

ITA 202 Intermediate Italian II (3 credits)

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)

JPN 101 Elementary Japanese I (3 credits)

Taught: Fall and spring

Oral-aural approach to Japanese language, pronunciation, vocabulary, grammar; kana syllabary writing system.

General education credit: Culture and Creativity

JPN 102 Elementary Japanese II (3 credits)

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)

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)

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)

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)

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)

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)

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)

Prerequisites: Consent of instructor.

Taught: Variable, check with department
Readings in language, literature and culture.

JPN 520 Readings in Japanese (3 credits)

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)

JOU 110 Introduction to Mass Communication (3 credits)

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)

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)

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)

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 Student Media Workshop (1-3 credits)

Prerequisites: JOU 220.

Taught: Fall and spring

Interview, write, edit, take photos, produce video or audio on deadline for campus media.

JOU 297 Advanced Student Media Workshop (1-2 credits)

Prerequisites: JOU 296.

Taught: Fall and spring

Interview, write, edit, take photos, produce video or audio on deadline for campus media. Advanced students may be selected to serve as student managers or editors.

JOU 321 Digital Publishing (3 credits)

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)

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)

Prerequisites: JOU 230.

Taught: Spring only-even years

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

Prerequisites: JOU 296.

Taught: Fall and spring

Work at newspapers, online sites, public relations or advertising agencies, or other employers of communication professionals, in addition to some class meetings.

JOU 421 Mass Communication History (3 credits)

Prerequisites: JOU 110 or junior standing.

Taught: Spring only-odd years

Explore social, political, economic and technological factors that have affected the evolution of U.S. media.

JOU 430 Communication Theories (3 credits)

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)

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)

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)

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.

Criminal Justice Courses (JUS)

JUS 101 Introduction to Criminal Justice (3 credits)

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)

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)

Taught: Fall and spring

An interdisciplinary examination of all areas of corrections in the United States informed by law, psychology, sociology, and public policy. Topics explored include history and philosophy of punishment, prisons and jails, institution programming, management of various offender populations, incarceration trends, intermediate sanctions, and parole.

JUS 203 The Criminal Court Systems (3 credits)

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)

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)

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)

Taught: Fall only

Methods of research in establishing authoritative legal opinion and the processing of legal activities.

JUS 215 Private Sector Security (3 credits)

Prerequisites: JUS 101.

Taught: Spring only

Overview of the American private police system; historical development, trends in private security; organizational structure; career opportunities, and philosophical differences between security and policing.

JUS 231 Race, Gender, and the Law (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

Prerequisites: JUS 101 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)

Prerequisites: JUS 101 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)

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)

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)

Prerequisites: JUS 101 and sophomore standing.

Taught: Variable, check with department

Overview of various career options and career planning in criminal justice.

JUS 339 Applied Corrections (3 credits)

Prerequisites: JUS 101 and sophomore standing.

Taught: Spring only

This course is designed to provide the students with experience in providing correctional options for offenders. Specific topics will include: the assessment of offenders, what works and what doesn't in reducing recidivism among offenders, and examining substance abusing offenders in a correctional context.

JUS 351 Financial Investigations (3 credits)

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)

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)

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)

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)

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)

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)

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)

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 409 Alternative Dispute Resolution (3 credits)

Prerequisites: JUS 101 and sophomore standing.

Taught: Spring only

Victim/offender mediation and related strategies; principles of restorative justice including restitution, reconciliation, and empowerment; negotiation techniques and mediator styles; history and organization of mediation programs.

JUS 428 Crime Across the Life Course (3 credits)

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)

Prerequisites: JUS 101 and sophomore standing.

Taught: Fall only

This course will address women in the criminal justice system. Topics covered include: explanation of patriarchy and feminist theories, history of and women as employees in the criminal justice system, female crime theories, female crime and victimization, the response to their crime and victimization by the criminal justice system including programs intended to prevent violence and treat victims and offenders of crime.

JUS 494 Seminar: Justice Studies (3 credits)

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)

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)

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 toward the major or minor in criminal justice.

Kinesiology Courses (KIN)

KIN 125 Introduction to Physical Education, Fitness, and Sport (3 credits)

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)

Taught: Fall, spring, and summer

Health related problems associated with a modern sedentary society; benefits of regular exercise; individual psychomotor and physiological developmental patterns.

KIN 205 Introduction to Personal Training (3 credits)

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)

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 261 Computer Applications for Health and Kinesiology (2 credits)

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 280 Introduction to Athletic Training (3 credits)

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)

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 320 Motor Learning and Performance (3 credits)

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)

Prerequisites: Junior standing.

Taught: Fall and spring

Motor development from birth through maturity; factors influencing the development and performance of motor skills; application of assessment and intervention strategies to improve motor performance for preschoolers through the elderly. Includes 5-7 hours of an on-campus intervention clinical experience with preschool children.

KIN 340 Exercise Physiology (4 credits)

Prerequisites: BIO 208, KIN 200.

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)

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)

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)

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)

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)

Prerequisites: MAT 099 or acceptable placement score.

Taught: Fall and spring

Designed to provide knowledge and practical experience in the study of statistical techniques, motor ability tests, motor fitness tests, physical fitness tests, and skill tests applicable to physical education.

KIN 365 Exercise Prescription and Programming for Special Populations (3 credits)

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)

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)

Prerequisites: KIN 340 and KIN 349.

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)

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)

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)

Prerequisites: KIN 380.

Taught: Fall and spring

Application of theory to practice by assisting in various activities associated with the field of exercise science (e.g., fitness instruction, weight management, strength and conditioning, sports medicine, wellness, nutrition).

KIN 496 Internship in Exercise Science (9 credits)

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)

Prerequisites: Department approval, PHE 492 and PHE 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)

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 (3 credits)**

Taught: Variable, check with department
Basic skills in pronunciation, conversation, reading and writing.

General education credit: Culture and Creativity

KOR 102 Elementary Korean II (3 credits)

Prerequisite: KOR 101 or equivalent.
Taught: Variable, check with department
Continuation of KOR 101 additional practice in pronunciation, conversation, reading and writing. A general education course (humanities or non-Western).

Learning Assistance Program Courses (LAP)**LAP 201 Tutoring in Learning Assistance Center (1 credit)**

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 Program.

Latin Courses (LAT)**LAT 101 Elementary Latin I (3 credits)**

Taught: Fall only

Introduction to language and culture of ancient Rome designed for beginning students.

LAT 102 Elementary Latin II (3 credits)

Prerequisites: LAT 101 or equivalent.

Taught: Spring only

Continuation of LAT 101.

LAT 201 Intermediate Latin I (3 credits)

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)

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)

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)**

Taught: Fall, spring, and summer

Functions of supervision; planning, organizing, directing, staffing, controlling, and delegating.

LDR 300 Foundations of Leadership (3 credits)

Taught: Fall, spring, and summer

This course introduces fundamental concepts of leadership and foundational tenets of leadership theories. The course focuses on development of reflective leaders noting complex organizations diverse, multicultural environments communication and skills and competencies associated with an introductory study of leadership theories and applications.

LDR 301 Cooperative Education (1-3 credits)

Prerequisites: restricted to Organizational Leadership majors; junior standing; prior approval of Co-op Coordinator before registration.

Taught: Fall, spring, and summer

Supervised application based work experience related to the Leadership major. Educational component coordinated among employer, student, and faculty. Minimum of 20 hours on the job per week for 3 credit hours. May be repeated up to 9 credit hours.

LDR 305 Human Relations in Organizations (3 credits)

Taught: Fall, spring, and summer

Interpersonal skills regarding behavior, attitudes, value, communication, motivation, networking, team dynamics, organizational culture, and diversity.

LDR 308 Leadership in Organizations (3 credits)

Prerequisites: junior standing.

Taught: Fall, spring, and summer

Dynamics of leadership; how successful leaders think, act, make decisions, interact with people, and communicate.

LDR 310 Research Methods in Leadership (3 credits)

Taught: Fall, spring, and summer

This course focuses on the study of leadership through theoretical and empirical explorations of social interaction. It provides a focused study of the application in social science research methods, program evaluation, qualitative analysis and methods, and basic quantitative methods and analysis specific to Organizational Leadership. It also addresses written and oral communication skills and competencies and developing critical analysis and thinking skills needed to be a good consumer of social science research.

LDR 381 Organizational Ethics (3 credits)

Prerequisites: Junior standing.

Taught: Fall, spring, and summer
Fundamental role of ethics in leadership and decision making. Influence of personal morals, values, and beliefs in the organizational relationship between leaders and followers. Emphasis on personal ethical development, ethical theories in organization decisions, and application of ethical principles.

LDR 382 Organizational Change (3 credits)

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)

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)

Taught: Fall, spring, and summer

Dynamics of teamwork; roles of team leaders and qualities of team players, attributes and behavior of teams, and problem solving in a team environment. Studies include one or more real world team projects.

LDR 399 Independent Study: Organizational Leadership (1-3 credits)

Taught: Fall, spring, and summer

Individualized study of a special topic under supervision of a faculty member. May be repeated.

LDR 480 Organizational Leadership Capstone (3 credits)

Prerequisites: restricted senior Organizational Leadership majors or by special faculty agreement.

Taught: Fall, spring, and summer
Classical and contemporary theories of organizations and organizational behavior. Organizational purpose; how and why people in organizations respond to their environment. Highly interactive; emphasis on experiential discussion,

life-centered workshops, student presentations, and case analysis.

Library Informatics Courses (LIN)

LIN 175 Information Literacy (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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 444 Information Literacy Curricular Design (3 credits)

Prerequisites: LIN 414.

Taught: Variable, check with department

This course examines the effectiveness and best practices in information literacy curricular design. Topics include student-centered learning, online tutorials, information literacy competencies, the development of assessment tools based on definitions, guidelines and standards for information literacy and fluency; and an overview of the information literacy / computer literacy connection.

LIN 496 Senior Practicum (3 credits)

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)

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)

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)

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 (4 credits)

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 (3 credits)

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)

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)

Prerequisites: C- or better in MAHD 094 or MAHD 095 or MAHD 099 or placement.

Taught: Fall, spring, and summer

Enumeration techniques and probability theory.

MAT 112 Applied Calculus (3 credits)

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 (3 credits)

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 (3 credits)

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 (3 credits)

Prerequisites: C- or better in MAHD 095 or MAHD 099 or placement.

Taught: Fall only

Appreciation of mathematical ideas applied to problems from the real world; scheduling, voting schemes, apportionment, descriptive statistics, shape and symmetry, fractals, and population growth. For students of the liberal arts.

General education credit: Mathematics

MAT 119 Pre-Calculus Mathematics (3 credits)

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 (3 credits)

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 (4 credits)

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)

Prerequisites: C- or better in MAHD 095 or MAHD 099 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)

Prerequisites: C- or better in MAT 140 and (C- or better in MAHD 091 or placement).

Taught: Fall, spring, and summer
Elements of geometry. Open only to students majoring in elementary or middle grades education.

MAT 185 Introductory Discrete Mathematics (3 credits)

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)

Prerequisites: MAT 128 or MAT 129.

Corequisites: 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)

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)

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)

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)

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)

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)

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)

Prerequisites: consent of instructor.

Taught: Variable, check with department

MAT 302 Introduction to Higher Mathematics (3 credits)

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)

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)

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)

Prerequisites: C- or better in MAT 228 or MAT 229.

Taught: Spring only

Ordinary differential equations, with applications.

MAT 329 Calculus III (4 credits)

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)

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)

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)

Prerequisites: C- or better in MAT 302.

Taught: Fall only

Axiomatic Euclidean geometry; introduction to non-Euclidean geometries.

MAT 360 Numerical Analysis (3 credits)

Prerequisites: C- or better in MAT 234 and (CSC 270 or INF 260).

Taught: Spring only-odd years

Numerical integration, solution of nonlinear equations by iterative processes; functional approximation and interpolation; initial value problems.

MAT 375 Applied Mathematical Models (3 credits)

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)

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)

Prerequisites: varies with topic (see Schedule of Classes).

Taught: Variable, check with department
Topics vary.

MAT 399 Directed Readings/Independent Study (1-3 credits)

Prerequisites: consent of instructor.

Taught: Variable, check with department

MAT 410 Abstract Algebra I (3 credits)

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)

Prerequisites: C- or better in MAT 410.

Taught: Spring only-odd years

Extensive study of one or more of the topics considered in MAT 410.

MAT 420 Real Variables I (3 credits)

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)

Prerequisites: C- or better in MAT 420.

Taught: Spring only-even years

Sequences and series of functions; integration.

MAT 430 Complex Variables (3 credits)

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)

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)

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)

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)

Prerequisites: consent of instructor.

Taught: Variable, check with department

MAT 584 Cryptography (3 credits)

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)

Prerequisites: varies with topic (see Schedule of Classes).

Taught: Variable, check with department

Topics in mathematics and mathematics education. Topics vary.

Medieval Studies Courses (MDS)**MDS 494 Seminar: Medieval Studies (3 credits)**

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 topics. Required for medieval studies minor.

Management (MGT)**MGT 205 Business Management Principles (3 credits)**

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)

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)

Prerequisites: ENG 101, CMST 101 and sophomore standing.

Taught: Variable, check with department
Writing managerial documents: memoranda; letters; e-mail; short formal special reports; executive summaries and informal notes to superiors, peers and subordinates. Speaking as a manager through formal and informal addresses, business meetings, news conferences. Prepares students to write and speak effectively when solving problems managers face. Open only to pre-management majors.

MGT 300 Behavior in Organizations: Understanding Organizational Life (3 credits)

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 and MGT 305; 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)

Prerequisites: MGT 300 and MGT 305; junior standing.

Taught: Variable, check with department
An upper level undergraduate elective designed to familiarize the student with the scope of supply chain management in organizations. Exposure to key dimensions of effective supply chain management, including those related to logistics, purchasing, information systems, asset management, and strategic supply chain configuration will be provided. Focus will be on the key managerial decisions required to effectively design and operate a supply chain.

MGT 310 Managerial Behavior (3 credits)

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)

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)

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)

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)

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 (3 credits)

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 three for elective credit if topics differ.

MGT 406 Leadership Assessment and Development II (3 credits)

Prerequisites: MGT 206, 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 410 Managing Organizational Change (3 credits)

Prerequisites: MGT 300 and senior standing.

Taught: Variable, check with department

Application of theories of organizational change to a variety of business organizations; planning and implementing of organizational change as well as its behavioral aspects; use of simulations, cases, and/or projects to blend theory and practice. Open only to students certified as majoring in business disciplines.

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)

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)

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.

Media Informatics Courses (MIN)

MIN 221 Visual Design for Digital Media (3 credits)

Prereq OR Coreq: 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 Photoshop and Dreamweaver. Basic Mac Platform computer skills required.

MIN 240 Introduction to Interactive Media (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

Prerequisites: Junior standing, permission of supervising faculty.

Taught: Fall and spring

Selected placement for majors in businesses and non-profit organizations. Internships may involve content design, web and mobile applications, digital advertising, animation, game design, production writing or other areas within field. Repeatable once for full credit if different responsibilities.

MIN 420 Business of Media Informatics (3 credits)

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)

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)

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)

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)

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)

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)

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)**MKT 305 Principles of Marketing (3 credits)**

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 Management (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

Prerequisites: C or better in MKT 305, consent of supervising faculty member, GPA of at least 2.75.

Taught: Fall, spring, and summer

Supervised professional work and learning experience in an approved marketing-related professional position.

MKT 480 Strategic Decision Making in Marketing (3 credits)

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)

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)

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 (3 credits)

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 (3 credits)

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)

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)

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)

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 (3 credits)

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)

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)

Corequisites: 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)

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)

Prerequisites: C- or better in MUS 122.
Taught: Fall and spring
Continuation of MUS 122. Introduction to chromatic functions; secondary dominants and modulation.

MUS 124 Aural Skills I (1 credit)

Taught: Fall and spring
Sight singing, dictation, and keyboard harmony.

MUS 125 Aural Skills II (1 credit)

Taught: Fall and spring
Continuation of MUS 124.

MUS 126 Aural Skills III (1 credit)

Prerequisites: C- or better in MUS 125.
Taught: Fall and spring
Continuation of Aural Skills sequence.

MUS 127 Aural Skills IV (1 credit)

Taught: Fall and spring
Continuation of Aural Skills sequence.

MUS 130 Introduction to Music Literature (2 credits)

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)

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)

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)

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)

Taught: Fall and spring
Continuation of MUS 140.

MUS 142 Class Piano III (1 credit)

Prerequisites: C- or better in MUS 141.
Taught: Fall and spring
Continuation of MUS 141.

MUS 143 Class Piano IV (1 credit)

Taught: Fall and spring
Continuation of MUS 142.

MUS 146 Group Voice (1 credit)

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)

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)

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)

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)

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)

Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1

permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 184 Applied Music: Tuba (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 185 Applied Piano (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 186 Applied Organ (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 187 Applied Voice (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 188 Applied Guitar (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1

sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 189 Applied Percussion (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 195 Music: Experimental (1 credit)

Taught: Variable, check with department

MUS 196 Recital Review (0 credits)

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)

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)

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)

Taught: Fall and spring

Twentieth-century musical techniques approached through analysis and composition.

MUS 224 Aural Skills V (1 credit)

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)

Taught: Fall and spring

Continuation of MUS 224, with chromatic materials.

MUS 226 Aural Skills VII (1 credit)

Prerequisites: C- or better in MUS 225.

Taught: Fall and spring

Continuation of Aural Skills sequence.

MUS 227 Aural Skills VIII (1 credit)

Taught: Fall and spring

Continuation of Aural Skills sequence.

MUS 228 Applied Composition I (1-2 credits)

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)

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)

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)

Taught: Fall only

Music in western civilization from ca. 1680 to ca. 1850.

MUS 235 Jazz Harmony/Piano I (1 credit)

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)

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)

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)

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)

Taught: Fall only

Class instruction in performance and pedagogy.

MUS 243 Applied Methods and Materials: Woodwinds (1 credit)

Taught: Spring only

Class instruction in performance and pedagogy.

MUS 245 Applied Methods and Materials: Strings (1 credit)

Taught: Fall only

Class instruction in performance and pedagogy.

MUS 247 Applied Methods and Materials: Percussions (1 credit)

Taught: Spring only

Class instruction in performance and pedagogy.

MUS 249 Instruments for Singers, Pianists, and Guitarists (1 credit)

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)

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)

Prerequisites: C- or better in MUS 143.

Taught: Fall and spring

Continuation of Class Piano sequence.

MUS 262 Class Piano VI (1 credit)

Taught: Fall and spring

Continuation of MUS 261.

MUS 263 Class Piano VII (1 credit)

Prerequisites: C- or better in MUS 262.

Taught: Fall and spring

Continuation of Class Piano sequence.

MUS 264 Class Piano VIII (1 credit)

Taught: Fall and spring

Continuation of MUS 263.

MUS 268 Applied Harp (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 269 Applied Harpsichord (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 270 Applied Piano Accompanying (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 271 Applied Violin (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2

semester hours. Fees assessed according to contact hours.

MUS 272 Applied Viola (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 273 Applied Cello (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 274 Applied String Base (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 275 Applied Flute (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 276 Applied Oboe (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be

repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 277 Applied Bassoon (1-2 credits)

Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 278 Applied Clarinet (1-2 credits)

Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 279 Applied Saxophone (1-2 credits)

Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 280 Applied Trumpet (1-2 credits)

Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 281 Applied French Horn (1-2 credits)

Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 282 Applied Trombone (1-2 credits)

Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 283 Applied Euphonium (1-2 credits)

Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 284 Applied Tuba (1-2 credits)

Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 285 Applied Piano (1-2 credits)

Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1

semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 286 Applied Organ (1-2 credits)

Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 287 Applied Voice (1-2 credits)

Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 288 Applied Guitar (1-2 credits)

Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 289 Applied Percussion (1-2 credits)

Taught: Fall and spring
Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 291W Advanced Writing in the Music Profession (3 credits)

Prerequisites: ENG 101, MUS 122.

Taught: Spring only
Practice in a variety of expository forms common to the field of music; concert review, musical analysis, program notes,

press release, journal article, research paper; and development of strong research skills. A general education course (Written Communication II. Open to non-music majors and music majors who have not completed MUS 122 with consent of instructor.

MUS 296 Piano Proficiency (0 credits)

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)

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)

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)

Prerequisite: audition.

Taught: Fall and spring

A select choral ensemble specializing in a variety of the best choral literature. For music students, voice students. May be repeated for credit. All music majors and minors must fulfill their ensemble credit requirements prior to opting for the 0 cr.

MUS 303 Women's Ensemble (0-1 credits)

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)

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)

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)

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)

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)

Prerequisites: 48 semester hours as specified in the curriculum contract; at least 2.50 GPA; completion of pre-music curriculum required.

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.

MUS 310 Chamber Music Ensembles (0-1 credits)

Prerequisite: audition.

Taught: Fall and spring

Participation in an ensemble to study and perform chamber music literature. May be repeated for credit. All music majors and minors must fulfill their ensemble credit requirements prior to opting for the 0 cr.

MUS 311 Accompanying and Chamber Music (1 credit)

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)

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)

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)

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)

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)

Prerequisites: auditions.

Taught: Fall and spring

Preparation and 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)

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)

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)

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)

Taught: Variable, check with department

MUS 321 Jazz Arranging I (2 credits)

Prerequisites: MUS 123, MUS 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)

Prerequisites: MUS 321.

Taught: Spring only-even years

Advanced concepts of jazz theory, composition, and arranging.

MUS 323 Analytic Techniques (3 credits)

Taught: Variable, check with department

MUS 324 Orchestration I (3 credits)

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)

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)

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)

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)

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)

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)

Taught: Variable, check with department

MUS 331 Keyboard Literature I (2 credits)

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)

Prerequisites: MUS 331.

Taught: Spring only-even years

Keyboard literature and its development from the middle classical period to the present; performance practices, interpretation, and styles.

MUS 333 Vocal Literature (3 credits)

Prerequisites: MUS 230-MUS 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)

Taught: Variable, check with department

MUS 335 Symphonic Literature (3 credits)

Taught: Variable, check with department

MUS 336 Choral Literature (3 credits)

Prerequisites: MUS 231 or consent of instructor.

Taught: Spring only-odd years

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)

Prerequisites: MUS 230-MUS 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)

Prerequisites: MUS 130.

Taught: Spring only-odd years

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)

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)

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)

Prerequisites: MUS 352 or consent of instructor.

Taught: Spring only-even years

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)

Prerequisites: MUS 122- MUS 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.

MUS 345 Keyboard Skills I (1 credit)

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)

Prerequisites: MUS 345.

Taught: Spring only-even years

Continued principles and techniques of sight reading, transposition, harmonization, playing by ear, and improvisation.

MUS 347 Harpsichord for Pianists II (2 credits)

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)

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)

Prerequisites: consent of instructor.

Taught: Spring only-odd years

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)

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)

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)

Prerequisites: MUS 123, MUS 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)

Prerequisites: MUS 354.

Taught: Spring only-odd years

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)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 369 Applied Harpsichord (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 370 Applied Piano Accompanying (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 371 Applied Violin (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 372 Applied Viola (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2

semester hours. Fees assessed according to contact hours.

MUS 387 Applied Voice (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 388 Applied Guitar (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 389 Applied Percussion (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 394 Special Topics in Music (1-3 credits)

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)

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)

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)

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)

Prerequisites: MUS 238, MUS 322, MUS 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)

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)

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)

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)

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)

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)

Prerequisites: consent of instructor.

Taught: Spring only-even years

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)

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. 1/2 hr. contact = 1 semester hour; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 469 Applied Harpsichord (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 470 Applied Piano Accompanying (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be

repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 485 Applied Piano (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 486 Applied Organ (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 487 Applied Voice (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 488 Applied Guitar (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 489 Applied Percussion (1-2 credits)

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring

or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 497 Senior Recital (0 credits)

Prerequisites: consent of instructor.

Taught: Fall and spring

Students majoring in applied music must give a one hour senior recital prior to graduation. A recital jury audition must be passed at least one month prior to the public performance.

Neuroscience Courses (NEU)

NEU 493 Cognitive Neuroscience Seminar (1 credit)

Prerequisites: PSY 311 or consent of instructor.

Taught: Fall only

Serves as a capstone experience for students in the neuroscience minor. Readings and discussions directed at large-scale issues in neuroscience, typically achieved through review of the current literature. Intended to stimulate critical thinking and integration of material learned in earlier courses in the neuroscience minor.

Nursing Registered Professional Courses (NRP)

NRP 316L Evaluation of Clinical Performance (6 credits)

Prerequisites: admission to RN-BSN program.

Corequisites: 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)

Prerequisites: Admission to RN-BSN program.

Corequisites: 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)

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)

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)

Prerequisites: STA 205.

Prereq OR Coreq: 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)

Corequisites: NRP 413L and NRP 415L.

Prereq OR Coreq: 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)

Corequisites: 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)

Corequisites: 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)

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)

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)

Corequisites: 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)

Prerequisites: NRP 401, NRP 410, NRP 411, NRP 413L, NRP 415L, NRP 434 and NRP 435/435L.

Corequisites: 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 441L Nursing Leadership Practicum (6 credits)

Prerequisites: NRP 401, NRP 410, NRP 411, NRP 413L, NRP 415L, NRP 434 and NRP 435/435L.

Corequisites: 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)

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)

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)

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 514 Issues in Gerontology (2 credits)

Taught: Variable, check with department
Issues of significance to nurses and health professionals responsible for care of older adults; aging theories; legal/ethical issues, administration, evaluating learning theories, care and service delivery, environment, and common health problems of older adults. Open to Registered Nurses only.

Nursing Baccalaureate Courses (NRS)

NRS 210L Development of Clinical Nursing Skills (2 credits)

Prerequisites: BIO 209, BIO 209L, BIO 126, CHE 115, CHE 115L and PSY 220.

Corequisites: NRS 215, NRS 215P, NRS 220 and NRS 220L.

Prereq OR Coreq: 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)

Prerequisites: BIO 209, BIO 209L, BIO 126, CHE 115, CHE 115L, PSY 100 and PSY 220.

Corequisites: NRS 210L.

Taught: Fall and spring

Fundamental Concepts of Professional Nursing Practice (3,0,3) 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)

Prerequisites: BIO 209, BIO 209L, BIO 126, CHE 115, CHE 115L, PSY 100 and PSY 220.

Corequisites: 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)

Prerequisites: BIO 209, BIO 209L, BIO 126, CHE 115, CHE 115L, PSY 100 and PSY 220.

Corequisites: 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)

Prerequisites: BIO 209, BIO 209L, BIO 126, CHE 115, CHE 115L, PSY 100 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)

Prerequisites: NRS 215 and NRS 220.

Corequisites: 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)

Corequisites: 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)

Prerequisites: NRS 215 and NRS 220.

Corequisites: 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)

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)

Corequisites: 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)

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)

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)

Prerequisites: NRS 304, NRS 305, NRS 332, NRS 396.

Corequisites: 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)

Prerequisites: NRS 250.

Corequisites: 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 (0 credits)

Corequisites: 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)

Prerequisites: NRS 250.

Corequisites: 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)

Prerequisites: NRS 250, NRS 255, STA 205 or STA 212.

Corequisites: 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)

Prerequisites: NRS 206, NRS 207, NRS 296, NRS 297, NRS 298, BIO 202.

Corequisites: NRS 304, NRS 305, NRS 306, NRS 398, NRS 396.

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)

Prerequisites: NRS 250 and NRS 255.

Corequisites: 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)

Corequisites: 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)

Prerequisites: NRS 206, NRS 207, NRS 297, NRS 298, BIO 202.

Corequisites: NRS 304, NRS 305, NRS 396, NRS 397.

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)

Prerequisites: NRS 250.

Corequisites: 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)

Prerequisites: NRS 310, NRS 315, NRS 320.

Corequisites: 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)

Corequisites: 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 (0 credits)

Prerequisites: NRS 310 and NRS 330.

Corequisites: 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)

Corequisites: 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)

Prerequisites: NRS 310 and NRS 330.

Corequisites: 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)

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)

Corequisites: 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)

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)

Prerequisites: NRS 304, NRS 305, NRS 332, NRS 396.

Corequisites: 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)

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 404 Community and Public Health Nursing (3 credits)

Corequisites: 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)

Corequisites: 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)

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)

Prerequisites: NRS 350 and NRS 360.

Corequisites: NRS 415P, NRS 420, NRS 439L and NRS 440P.

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)

Corequisites: 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)

Prerequisites: NRS 350 and NRS 360.

Corequisites: 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 420P Nursing Leadership Practicum (2 credits)

Corequisites: NRS 420.

Taught: Fall and spring

Integration of didactic content in a practice setting; practicum experience in selected health care agencies, in leadership role.

NRS 421 Healthcare Research (3 credits)

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)

Prerequisites: NRS 350 and NRS 360.

Corequisites: 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)

Prerequisites: NRS 350 and NRS 360.

Corequisites: 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)

Prerequisites: NRS 415.

Corequisites: 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)

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)

Prerequisites: NRS 415.

Corequisites: 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)

Prerequisites: NRS 440P.

Corequisites: 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)

Corequisites: 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)

Prerequisites: NRS 404, NRS 496, NRS 421.

Corequisites: 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)

Prerequisites: admission to the RN-MSN program and consent of the MSN 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)**

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)

Taught: Variable, check with department

PAD 401 Human Resource Management (3 credits)

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)

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)

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)

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)

Prerequisites: junior standing.

Taught: Spring only

Development and characteristics of the not-for-profit organization; managerial challenges; application of relevant theories to the not-for-profit organization; organization, staffing, planning, programming, evaluating, board-staff relations; managing volunteers.

PAD 455 Urban Administration (3 credits)

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)

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)

Prerequisites: junior standing.

Taught: Variable, check with department

Topics vary from semester to semester. See Schedule of Classes for topic and prerequisites. May be repeated.

PAD 496 Internship in Public Administration (1-5 credits)

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 499 Readings: Public Administration (3 credits)

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)

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 implementation of the principles and theories and research into relevant topics.

PAD 519 Introduction to Remote Sensing (3 credits)

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)

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 102 Beginning Archery (1 credit)**

Taught: Variable, check with department

Development of skills, knowledge, strategies, and attitudes in specific

Beginning level activities. For students unskilled in the activity.

PHE 104 Beginning Badminton (1 credit)

Taught: Spring only

Development of skills, knowledge, strategies, and attitudes in specific Beginning level activities. For students unskilled in the activity.

PHE 106 Beginning Bowling (1 credit)

Taught: Variable, check with department

Development of skills, knowledge, strategies, and attitudes in specific Beginning level activities. For students unskilled in the activity.

PHE 108 Beginning Conditioning (1 credit)

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)

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)

Taught: Fall and spring

Development of skills, knowledge, strategies, and attitudes in specific Beginning level activities. For students unskilled in the activity.

PHE 116 Beginning Racquetball (1 credit)

Taught: Variable, check with department

Development of skills, knowledge, strategies, and attitudes in specific Beginning level activities. For students unskilled in the activity.

PHE 118 Beginning Swimming (1 credit)

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)

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)*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)*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)*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)*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)*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)*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)*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)*Taught: Spring only*

Development of skills, knowledge, and strategies in activities developmentally appropriate for elementary physical education programs; movement concepts, fundamental motor skills, body management, rhythmic activities and dance, game skills, and physical fitness concepts and development activities.

PHE 231 Dance and Rhythmic Activities (3 credits)*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)*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)*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 244 Swimming and Aquatic Activities (1 credit)*Taught: Variable, check with department*

Knowledge and skills in basic water safety awareness; development of basic swimming strokes and other entry level skills for lifesaving; aquatic games and aerobic water activities. For students majoring or minoring in physical education; for others, consent of instructor required.

PHE 245 Officiating Basketball (1 credit)*Taught: Variable, check with department*

Rules and techniques for officiating sports contacts.

PHE 250 Physical Education for Elementary Teachers (2 credits)*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)*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)*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)*Prerequisites: swimming proficiency test given during first class meeting.**Taught: Spring only*

Knowledge and skills designed to save own life or life of another person in event of aquatic emergency; CPR (enhanced first aid instruction) for the professional rescuer. American Red Cross certification awarded to students meeting requirements.

PHE 319 Water Safety Instructor (3 credits)

Prerequisites: must pass American Red Cross Level 4 swimming skills test.

Taught: Fall and spring

Knowledge, skills, and methodology necessary to teach swimming and water safety skills. American Red Cross Certification for water safety instructor, and first aid/CPR awarded to those students who meet requirements.

PHE 470 Teaching Methods for Physical Education (4 credits)

Prerequisites: EDU 311, PHE 200, PHE 230, PHE 231, PHE 234, PHE 235, PHE 310, PHE 330.

Corequisites: 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)

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)

Taught: Spring only

Supervised practice teaching experience in a middle school and/or high school setting. Integrated with methods course.

PHE 499 Special Topics in Physical Education (1-3 credits)

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)

Taught: Fall only

Adaptation of physical education programs for temporarily or permanently handicapped persons.

PHE 545 Sport in Modern America (3 credits)

Taught: Variable, check with department

Trends and problems in organized athletic competition in the context of contemporary society.

PHE 595 Scientific Foundations of Coaching (3 credits)

Taught: Variable, check with department

Scientifically based principles applied to effective athletic coaching; exercise physiology, biomechanics, kinesiology, and sport psychology.

PHE 599 Selected Problems in Physical Education (1-3 credits)

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 (3 credits)**

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 111 Debating Ethics (3 credits)

Taught: Spring only

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)

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.

General education credit: Culture and Creativity

PHI 150H Honors Introduction to Philosophy (3 credits)

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)

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)

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)

Taught: Fall and spring

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 170 Philosophy and Sexuality (3 credits)

Taught: Variable, check with department

Differing analyses of sexuality, love, and friendship, including historical perspectives such as Greek, Christian, Marxist, Freudian, Feminist, Existentialist, and Contemporary Analytic; contemporary discussions

concerning sexism, male chauvinism, marriage, polygamy, homosexuality, lesbianism, androgyny, pornography, and prostitution.

PHI 180 History of Classical and Medieval Philosophy (3 credits)

Taught: Variable, check with department
Western philosophical tradition from the Greeks to the 15th century; birth of scientific explanations; the role of reason; impact of Christianity; influence of seminal thinkers such as Socrates, Plato, Aristotle, the Atomists, Augustine, and Aquinas on political, ethical, religious, and other ideas.

PHI 181 Philosophers, Cultures and Creativity (3 credits)

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 185 History of Modern and Contemporary Philosophy (3 credits)

Taught: Variable, check with department
Western philosophical tradition from the 15th to the 20th century; rise of rationalism, dualism, empiricism, idealism, skepticism, and utilitarianism, and the modern reactions to them, such as positivism, dialectical materialism, existentialism, and feminism; figures such as Bacon, Descartes, Hobbes, Leibniz, Spinoza, Hume, Mill, Kant, Hegel, and others.

PHI 200 Ethics (3 credits)

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)

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)

Taught: Fall and spring
Ethical issues faced by computing professionals including those related to computing in the workplace, security, crime, privacy, property rights, risk, liability, and the internet.

PHI 220 Health Care Ethics (3 credits)

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 240 Philosophy and the Arts (3 credits)

Taught: Variable, check with department
Differing theories of the nature and importance of art in the history of aesthetics in regard to the artist, to the audience, to society; form and content within various media; the art world; artistic creativity and truth; imagination, emotion, unconscious, intellect and the artistic process; craft and art; feminist and Marxist critiques of art.

PHI 250 Eastern Philosophy (3 credits)

Taught: Variable, check with department
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 251 Critical Thinking and Moral Communication (3 credits)

Prerequisites: ENG 101 or ENG 151H or equivalent.

Taught: Fall and spring
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 (3 credits)

Prerequisites: C- or better in MAHD 095 or MAHD 099 or placement.

Taught: Fall and spring
An introduction to formal deductive logic, including its techniques and role in formalizing and systematizing existing and emerging work in mathematics and science. Syntax and semantics of sentential and quantificational logic; counterexamples; derivation or formal proof.

General education credit: Mathematics

PHI 301 Philosophy in Literature (3 credits)

Taught: Variable, check with department
Philosophical issues in literature considered historically and/or thematically; reality, nature, self, creativity, language, knowledge, community, good and evil, freedom, and God.

PHI 302 Ethics and Science (3 credits)

Prerequisites: 3 semester hours in philosophy.

Taught: Fall only-even years
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 303 Philosophy and Psychotherapy (3 credits)

Prerequisites: 3 semester hours of philosophy.

Taught: Variable, check with department
Philosophical frameworks of underlying assumptions about reality, self, time, meaning, rationality, imagination, emotion, society, unconsciousness, embodiment, and therapeutic process in various psychotherapeutic modalities, such as Freudian, Jungian, Medical Model, Existential, Logo therapeutic,

Gestalt, and Behaviorist; ethical issues of practice; social issues.

PHI 304 Zen (3 credits)

Prerequisites: 3 semester hours of philosophy.

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)

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)

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)

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)

Prerequisites: Sophomore standing.

Taught: Fall and spring

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, AIDS, Abortion, and Euthanasia.

PHI 311 Philosophy of Woman (3 credits)

Prerequisites: 3 semester hours in philosophy or women's studies.

Taught: Spring only-even years

Ideas of and about women in the history of philosophy; perennial issues that have emerged from classical times to the present.

PHI 315 Knowledge and Reality (3 credits)

Prerequisites: 3 semester hours in philosophy.

Taught: Variable, check with department

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)

Taught: Fall only-odd years

Nature and purposes of the state, grounds of political obligation, freedom and its limitations, human rights, social justice, and selected contemporary issues.

PHI 322 Philosophy of Race (3 credits)

Prerequisites: sophomore standing.

Taught: Variable, check with department

Examination of the concept of race and the way race informs identities. Topics include the reality of race, the origins of the concept; definition of racism and its reality in contemporary America; the intersection of race and gender; race and health care; politics of difference and recognition; racial justice.

PHI 323 Peace and War (3 credits)

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)

Prerequisites: sophomore standing.

Taught: Spring only-even years

Examination of cultural ideologies and traditions that unite and differentiate people of African descent. Issues discussed include slavery and colonization; mysticism, magic, witchcraft, African medicine and science; race, racism, ethnicity and identity; black power, racial justice, Afrocentricism, and Afro-feminism.

PHI 325 Philosophy of Nonviolence (3 credits)

Prerequisites: 3 semester hours in philosophy.

Taught: Variable, check with department

Reflective and evaluative study of the theory and practice of nonviolence. Topics will include the origins of nonviolence in both Western and Eastern thought; modern philosophers of nonviolence--Tolstoy, Gandhi, and King; civil disobedience; types of pacifism; women and nonviolence; recent examples of nonviolent action.

PHI 330 Philosophy and Law (3 credits)

Prerequisites: sophomore standing.

Taught: Spring only-odd years

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)

Prerequisites: 3 semester hours in philosophy.

Taught: Spring only-even years

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 345 Philosophy of Mind (3 credits)

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)

Prerequisites: 3 hours of philosophy.

Taught: Spring only-even years

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)

Prerequisites: sophomore standing or consent of instructor.

Taught: Fall only-odd years

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)

Prerequisites: 3 semester hours in philosophy.

Taught: Fall 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 Topics in Environmental Philosophy (3 credits)

Prerequisites: 3 semester hours in philosophy or consent of instructor.

Taught: Spring only-odd years

In-depth examination of a selected topic in environmental philosophy, such as environmental feminism, animal rights, technology and human nature, environmental justice, or religion and ecology. Topic will be announced in the Schedule of Classes. May be repeated as topics vary.

PHI 394 Topics: Philosophy (3 credits)

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)

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)

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)

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 511 Philosophy of Woman (3 credits)

Taught: Variable, check with department

In-depth examination of historical and contemporary conceptions of woman's nature and the impact of those views on woman's current status in society.

PHI 560 Topics: Environmental Philosophy (3 credits)

Prerequisites: Graduate standing.

Taught: Variable, check with department

In-depth examination of a selected topic in environmental philosophy, such as environmental feminism, animal rights, technology and human nature, environmental justice, or religion and ecology. Topic will be announced in the Schedule of Classes. May be repeated as topics vary.

PHI 594 Topics: Philosophy (3 credits)

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)

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)

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 (3 credits)

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 (4 credits)

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)

Prerequisites: MAHD 099.

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)

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 (5 credits)

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)

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 (4 credits)

Prereq OR Coreq: 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)

Prerequisites: C- or better in PHY 220. Prereq OR Coreq: 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)

Prerequisites: 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 294 Topics: Physics (1-3 credits)

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)

Corequisites: 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)

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)

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)

Prerequisites: C- or better in PHY 220.

Prereq OR Coreq: 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)

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)

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)

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)

Prerequisites: C- or better in PHY 224.

Prereq OR Coreq: MAT 329 Taught: Spring only
The laws of thermodynamics applied to closed systems, open systems, power cycles and refrigeration cycles; extensive use of tables and graphs of thermodynamic properties.

PHY 361 Modern Physics I (3 credits)

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)

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)

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)

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)

Taught: Variable, check with department
Current literature. Repeatable for a maximum of 6 semester hours.

PHY 410 Electromagnetic Theory (4 credits)

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)

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)

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)

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)

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)

Prerequisites: Physics GPA of at least 3.00, junior standing and consent of instructor.

Taught: Variable, check with department
Participation in planning, setting-up, teaching, conducting reviews, and testing for an undergraduate laboratory course. For students majoring in physics. Repeatable for a maximum of 6 semester hours. Not applicable to major or minor.

Popular Culture Courses (POP)**POP 205 Introduction to Popular Culture (3 credits)**

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)

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 (3 credits)

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)

Prerequisites: POP 205, JPN 101.

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)

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)

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)**

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)

Prereq OR Coreq: 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)

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)

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)

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)

Prerequisites: PRE 376.

Taught: Fall and spring

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)

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)

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)

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.

Prior Learning Courses (PRL)**PRL 101 Prior Learning (0 credits)**

Prerequisites: written permission from Educational Outreach Program Director.

Taught: Variable, check with department

Conversion of prior (job or personal) college level learning experience into college credit; assembling a portfolio document.

Political Science Courses (PSC)**PSC 100 American Politics (3 credits)**

Taught: Fall and spring

National government in the U.S.; decision making process, government structure, politics.

General education credit: Individual and Society

PSC 101 State and Local Politics (3 credits)

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 (3 credits)

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 (3 credits)

Taught: Fall and spring

Fundamental factors governing international politics.

General education credit: Global Viewpoints

PSC 103H Honors International Politics (3 credits)

Taught: Variable, check with department

Fundamental factors governing international politics.

General education credit: Global Viewpoints

PSC 110 History of Western Political Thought (3 credits)

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)

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)

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only-even years

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)

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)

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)

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)

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 309 Law of Mass Communication (3 credits)

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Fall and spring

Basic legal concepts and issues affecting mass communication, constitutional law, the First Amendment, libel, slander, invasion of privacy, copyright, the FCC and its regulation of broadcasting, legal access to the media, and the use of classified information by the media.

PSC 310 Political Behavior (3 credits)

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)

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)

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)

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 316 Data Analysis (3 credits)

Prerequisites: PSC 315.

Taught: Spring only

Applied current research techniques in, e.g., legal research, survey research, use of microcomputers, management of information, and applied governmental research.

PSC 320 American Politics in Film (3 credits)

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)

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)

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only-odd years

Organization and functioning of modern European political systems, especially Great Britain, France, Germany, and Italy.

PSC 335 Politics of Latin America (3 credits)

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only-even years

Comparative analysis of selected republics, especially Argentina, Brazil, Chile, Peru, and Venezuela.

PSC 338 U.S. Foreign Policy and the Developing World (3 credits)

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)

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 355 Comparative Revolutionary Politics (3 credits)

Prerequisites: 3 semester hours of introductory political science courses.

Taught: Variable, check with department

Comparative analysis of major western revolutions and Third World revolutions; causes and consequences of revolutionary activity.

PSC 366 Politics of Africa (3 credits)

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)

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only-odd years

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)

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only-even years

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)

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)

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)

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only-even years

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)

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only-even years

Examines the politics, governments, economy, security issues, and history of Asia; particular focus on East Asia's rapid growth.

PSC 394 Topics: Politics (3 credits)

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 additional prerequisites. May be repeated.

PSC 403 Public Policy (3 credits)

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)

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 policymaking in the United States. Emphasis on how the political process affects economic policy.

PSC 410 International Political Economy (3 credits)

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)

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 420 International Terrorism (3 credits)

Prerequisites: 3 semester hours of.

Taught: Fall, winter, spring and summer

This course is designed to acquaint students with a comprehensive introduction to the theory and practice of international terrorism. The class will focus on understanding the concept of terrorism and what role it plays in international as well as domestic politics. An attempt will also be made to explore the driving forces that motivate acts of terrorism that include religious, political, and economic components, inter alia.

PSC 425 Sex in Global Society (3 credits)

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)

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)

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)

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)

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only-odd years

Development of international organizations; recent international organizations; role of United Nations in peacekeeping and international socioeconomic and cultural development.

PSC 485 Comparative Foreign Policies (3 credits)

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only-odd years

Comparative analysis of foreign policies of selected states; decision-making and factors affecting foreign policy.

PSC 486 Conflict and Security (3 credits)

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)

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)

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 (3 credits)

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 (3 credits)

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 Psych of Personal Adjustment (3 credits)

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 Psychology of Race and Gender (3 credits)

Taught: Fall and spring

Psychological effects of racism and sexism; gender, ethnicity, culture, politics, and economic and social issues in the United States.

PSY 210 Research Methods in Psychology (3 credits)

Prerequisites: PSY 100 and STA 205.

Corequisites: 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)

Corequisites: 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 in Psychology (1 credit)

Corequisites: 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 220 Lifespan Development (3 credits)

Prerequisites: PSY 100.

Taught: Fall and spring

Psychological theory and research on physical, cognitive, personality, and social development across the life span. Students receiving credit for PSY 220 cannot also receive credit for either PSY 319 or PSY 320.

PSY 300 Personality Psychology (3 credits)

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)

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)

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)

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 (3 credits)

Prerequisites: PSY 100.

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)

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)

Prerequisites: PSY 210 or equivalent; .

Prereq OR Coreq: PSY 309 or equivalent.

Taught: Variable, check with department
Laboratory to accompany PSY 309.

PSY 311 Biopsychology (3 credits)

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)

Prerequisites: PSY 210 or equivalent and consent of instructor;

Prereq OR Coreq: PSY 311 or equivalent.

Taught: Fall and spring

Laboratory to accompany PSY 311.

PSY 315 Psychology of Human Sexuality (3 credits)

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)

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)

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 Psychology of Adult Development (3 credits)

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 330 Behavior Modification (3 credits)

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)

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)

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)

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)

Prerequisites: PSY 210 or equivalent; .

Prereq OR Coreq: PSY 338 or equivalent.

Taught: Fall only

Laboratory to accompany PSY 338.

PSY 340 Social Psychology (3 credits)

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)

Prerequisites: PSY 210 or equivalent.

Prereq OR Coreq: PSY 340 or equivalent.

Taught: Fall and spring

Laboratory to accompany PSY 340.

PSY 344 Industrial/Organizational Psychology (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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 492 Research: Psychology (1-3 credits)

Prerequisites: consent of instructor and psychology chair prior to registration.

Taught: Fall and spring

Individually supervised research in an area of faculty expertise; readings, design, data collection, analyses, report writing or presentation of findings. Specific activities assigned by instructor. Up to 3 semester hours may be earned per semester; no more than 6 semester hours of PSY 492 and/or PSY 499 may be applied toward certification of the major.

PSY 494 Topics: Psychology (1-3 credits)

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)

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)

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 PSY 499 may be applied toward certification of the major.

PSY 501 I-O Discussion Forum (2 credits)

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)

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)

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)

Prerequisites: Consent of MSIO director.

Taught: Fall only

Judgment and decision-making, heuristics, biases, persuasion, prejudice, diversity, values, and attitude measurement.

PSY 594 Topics: Psychology (3 credits)

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)

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 RSP 101.

RAD 200 Introduction to Radiography (6 credits)

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)

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)

Prerequisites: C or better in RAD 200.

Corequisites: 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)

Corequisites: RAD 208.

Taught: Fall only

Radiographic positioning of the appendicular skeleton and vertebral column using simulation and phantoms; supervised practice and film critique. Graded pass/fail.

RAD 209 Radiographic Procedures II (3 credits)

Prerequisites: RAD 208.

Corequisites: 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)

Corequisites: 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. Graded pass/fail.

RAD 214 Analysis of Radiographic Quality (3 credits)

Prerequisites: C or better in RAD 200.

Corequisites: 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)

Prerequisites: C or better in RAD 200.

Corequisites: 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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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 490 Senior Seminar (2 credits)

Prerequisites: RAD 396 or RSP 496.
Taught: Fall and spring
Discussion of current issues and problems related to health care professions.

RAD 494 Topics: Radiology (3 credits)

Taught: Variable, check with department

RAD 496 Practicum: Advanced Imaging (3-6 credits)

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)

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)

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)

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 181 Survey of the Hebrew Bible (Old Testament) (3 credits)

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 182 Survey of New Testament (3 credits)

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 185 Survey of Christianity (3 credits)

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 186 Introduction to Judaism (3 credits)

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 Chautaugua Society.

General education credit: Culture and Creativity

REL 200 World Religions and Cultures (3 credits)

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 201 Topics in Sacred Texts and Human Cultures (3 credits)

Taught: Fall and spring

Introduces students to the sacred texts and ethical or other aspects of cultures for one or more of the following religions: Indigenous Sacred Ways, Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, Judaism, Christianity, Islam. Study of specific texts, major beliefs and interactions within and between cultures will be considered. Depending on the topic this course may be taken more than once.

REL 250 Religion and Ethics (3 credits)

Taught: Fall only-odd years

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, human rights, political responsibility, and war; focus mainly upon Hinduism, Buddhism, Islam, Judaism, and Christianity.

REL 260 Human Religious Experience (3 credits)

Taught: Spring only-even years

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 301 Ancient Religions (3 credits)

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 305 Islam (3 credits)

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 320 Religion in America (3 credits)

Taught: Spring only-even years

Reading and discussion of writings of representative contemporary theologians and writers; development of awareness of basic issues and patterns in recent theological thinking.

REL 325 African American Religious Experience in America (3 credits)

Prerequisites: sophomore standing.

Taught: Variable, check with department
Religion in shaping the historical cultural and spiritual sojourn of African Americans. Topics include the roots, history, and diversity of African American religious expression; its values, norms and traditions; the role of women; and its relation to popular culture. May count toward minor in Afro-American Studies.

REL 330 Contemporary Religious Thought (3 credits)

Taught: Spring only-even years

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)

Prerequisites: sophomore standing.

Taught: Fall only-even years
Various approaches to the relationship between religion and science; historical conflict; the developing dialogue between religion and science; cosmology; evolution. The course seeks to introduce students to a wide range of concerns and does not presuppose detailed knowledge of religion or science.

REL 394 Topics: Religious Studies (3 credits)

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)

Prerequisite: consent of instructor.

Taught: Variable, check with department
Individually supervised readings and study of a selected topic. May be repeated.

REL 594 Topics In Religious Studies (3 credits)

Prerequisites: consent of instructor.

Taught: Variable, check with department
Selected topics in religious studies. May be repeated as topics vary.

REL 599 Independent Study (3 credits)

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)**

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 RAD 101.

RSP 201 Fundamentals of Respiratory Care (4 credits)

Prerequisites: admission to respiratory care program.

Corequisites: 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)

Corequisites: 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)

Corequisites: 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)

Prerequisites: RSP 201-RSP 201L.

Corequisites: 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)

Prerequisites: RSP 201-RSP 201L.

Corequisites: 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 oxygen monitoring by means of pulse oximetry and arterial puncture.

RSP 235 Respiratory Physiology and Physics (3 credits)

Prerequisites: RSP 201-BIO 201L and BIO 208-BIO 208L.

Prerequisite or corequisite: BIO 209-BIO 209L.

Taught: Spring only

Functional anatomy of respiratory systems structures; mechanics and control of ventilation; pulmonary blood flow and the matching of ventilation with perfusion; acid-balance and the interpretation of blood gases; oxygen transport and the concepts of shunting and dead space; physics of gasses applicable to respiratory care.

RSP 286 Clinical Practicum I (2 credits)

Corequisites: 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)

Prerequisites: RSP 286.

Corequisites: RSP 220-RSP 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)

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)

Prerequisites: C or better in RSP 220 and RSP 220L.

Corequisites: 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)

Prerequisites: C or better in RSP 220-RSP 220L.

Corequisites: 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)

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)

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)

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)

Prerequisites: C or better in RSP 310.

Corequisites: 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 therapeutic modalities; respiratory diseases commonly seen in pediatrics.

RSP 386 Clinical Practicum III (3 credits)

Prerequisites: RSP 296.

Corequisites: RSP 310-RSP 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)

Prerequisites: RSP 296.

Corequisites: 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)

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)

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)

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 in the skills required of an entry-level polysomnographic technologist.

RSP 452 Polysomnography II (3 credits)

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)

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)

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.

RSP 496 Clinical Practicum VI (3 credits)

Taught: Variable, check with department
Students will complete clinical competencies focused in the areas of specialization of either disease management or polysomnography.

Russian Courses (RUS)

RUS 101 Elementary Russian I (3 credits)

Taught: Fall only
Basic principles of the Russian language, including study of Cyrillic alphabet, pronunciation, and simple idioms.

General education credit: Culture and Creativity

RUS 102 Elementary Russian II (3 credits)

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)

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)

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)

Corequisites: 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)

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 (4 credits)

Prerequisites: Math ACT of 19 or placement.
Prereq OR Coreq: 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 (4 credits)

Prerequisites: Math ACT of 22 or placement ENG 101.
Prereq OR Coreq: 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 (3 credits)

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 (3 credits)

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)

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)

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)

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 210 Analysis of Racism and Sexism in the United States (3 credits)

Taught: Variable, check with department
In-depth analysis of the role of social institutions in perpetuating racism/sexism in American society; religion, science, law, political and economic order, education, and mass media.

SOC 240 Peoples of Africa (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

Prerequisites: SOC 100.
Taught: Fall and spring
Major classical and contemporary sociological theories and their exponents.

SOC 332 Collective Behavior (3 credits)

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)

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)

Prerequisites: SOC 100.
Taught: Variable, check with department
Fertility, mortality, and internal and international migration; population dynamics; interdependence of demographics and social and economic variable.

SOC 342 Sociology of Aging (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

Prerequisites: SOC 100.

Taught: Variable, check with department
Sociological examination of corporate and governmental deviance.

SOC 381 Deviance and Social Control (3 credits)

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)

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)

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)

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)

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)

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)

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)

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 488 Sociology of Law (3 credits)

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)

Taught: Variable, check with department
Continuation of SOC 391. Same as ANT 491.

SOC 494 Seminar: Sociology Senior Seminar (2 credits)

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)

Prerequisites: consent of instructor.

Taught: Variable, check with department
Specialized topics or research interest.

SOC 520 Sociology of Education (3 credits)

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)

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)

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)**

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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 (3 credits)**

Taught: Fall and spring

Basic principles; oral-aural approach; drill in Spanish intonation, special syntactical problems, and grammar/short readings.

General education credit: Culture and Creativity

SPI 102 Elementary Spanish II (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

Prerequisite: SPI 202 or equivalent.

Taught: Variable, check with department

Survey of films produced in the Spanish language. Emphasizes both the aesthetic aspects of the films as well as their historical, political, social and cultural content. May be repeated as topics vary.

SPI 340 Business Spanish (3 credits)

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)

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)

Prerequisites: 6 semester hours of

Spanish on the 300 level or above or consent of instructor.

Taught: Spring only-even years

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)

Prerequisites: 6 semester hours of Spanish on the 300 level or above or consent of instructor.

Taught: Spring only-odd years

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)

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)

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)

Prerequisites: consent of instructor.

Taught: Variable, check with department

Readings in language and literature.

SPI 520 Readings in Spanish (3 credits)

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 Introduction To Social Work (3 credits)**

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 (3 credits)

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)

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)

Prerequisites: Grade of C or better in SWK 105 and SWK 203 is required.

Corequisites: 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.

SWK 304 Human Behavior and Social Environment I (3 credits)

Prerequisites: C or better in SWK 105 and SWK 203.

Corequisites: 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)

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)

Prerequisites: Grade of C or better in SWK 105, SWK 203 is required.

Corequisites: SWK 308, SWK 310, and SWK 405.

Taught: Spring only

This course focuses on the life stages of young adulthood, middle adulthood, and later adulthood. The focus is on the interactions between and among individuals, groups, societies, and economic systems. Course content includes empirically based theories and knowledge and teaches biological and social science concepts concerning human development that are fundamental to social work practice. Special attention is given to the impact of human diversity, discrimination and oppression on the individual's ability to reach or maintain optimal health and well-being. Course restricted to social work majors accepted into the program.

SWK 308 Social Work Research (3 credits)

Prerequisites: Grade of C or better in SWK 105 and SWK 203, and STA 113, STA 205, or STA 212 is required.

Corequisites: 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.

SWK 310 Social Work Practice 2: Family and Groups (3 credits)

Prerequisites: Grade of C or better in SWK 105 and SWK 203 is required.

Corequisites: SWK 307, SWK 308, and SWK 405.

Taught: Spring only

Selected practice modalities applied to social work intervention in small systems, emphasizing families, and groups. Students learn to apply problem-solving approach, task centered casework, psychosocial model, and behavior modification to these small systems. Course restricted to Social Work majors accepted into the program.

SWK 394 Topics: Social Welfare (1-3 credits)

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)

Prerequisites: Grade of C or better in SWK 105, SWK 203, and SWK 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)

Prerequisites: C or better in SWK 105 and SWK 203.

Corequisites: SWK 307, SWK 308 and SWK 310.

Taught: Fall only

Social work intervention in groups, organizations, and large systems;

knowledge, skill, and appropriate worker role useful in working with neighborhood and community action groups and different types of organizations. Course restricted to Social Work majors accepted into the program.

SWK 406 Field Instruction I (5 credits)

Prerequisites: Grade of C or better in SWK 303, SWK 304, SWK 305, SWK 307, SWK 308, SWK 310, SWK 405, SWK 407.

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. Course restricted to Social Work majors accepted into program and consent of Field Director.

SWK 407 Social Welfare Policy (3 credits)

Prerequisites: Grade of C or better in SWK 105 and SWK 203.

Corequisites: 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.

SWK 408 Field Instruction II (5 credits)

Prerequisites: Grade of C or better in SWK 406 is required.

Taught: Fall and spring

Continuation of field placement and additional 200 hours in a community social service agency. Application to advanced knowledge and skill in social work interventions. Participation in weekly seminar. Course restricted to Social Work majors accepted into program and consent of Field Director.

SWK 411 Social Work and The Law: Part I (3 credits)

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 499 Independent Study (1-6 credits)

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)

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)

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)

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)

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)

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)

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)

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)

Prerequisites: C- or better in MAHD 095 or MAHD 099 or placement.

Taught: Fall, spring, and summer

Enumeration techniques and probability theory.

STA 113 Introduction to Probability and Statistics (3 credits)

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 (3 credits)

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)

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 (3 credits)

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)

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)

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 294 Topics: Statistics (3 credits)

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)

Prerequisites: Consent of Instructor.

Taught: Variable, check with department

STA 312 Elementary Survey Sampling (3 credits)

Prerequisites: C- or better in STA 205 or STA 212 or STA 250.

Taught: Spring only-even years
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)

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 315 Design/Analysis of Experiments II (3 credits)

Prerequisites: C- or better in STA 314.

Taught: Fall, winter, spring and summer
Random and fixed effects models; nested designs, split plot designs; multiple regression; analysis of covariance.

STA 316 Regression Analysis (3 credits)

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)

Prerequisites: C- or better in STA 213 or STA 316 or STA 341.

Taught: Spring 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)

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)

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)

Prerequisites: C- or better in STA 213 or STA 341; or corequisite: 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)

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)

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)

Prerequisites: consent of instructor.

Taught: Variable, check with department

STA 419 Applied Multivariate Statistics (3 credits)

Prerequisites: C- or better in STA 360 and (STA 314 or STA 316 or STA 341).

Taught: Spring only-even years
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)

Prerequisites: C- or better in STA 340.

Taught: Spring only-odd years
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)

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)

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)

Prerequisites: consent of instructor.

Taught: Variable, check with department

STA 594 Topics: Statistics (3 credits)

Prerequisites: varies with topic (see *Schedule of Classes*).

Taught: Variable, check with department
Topics in statistics. Topics vary.

Theatre Courses (TAR)**TAR 100 Theatre Appreciation (3 credits)**

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 101 Essentials of Theatre (3 credits)

Taught: Variable, check with department
Basic elements of theatre. Required of students majoring or minoring in theatre arts.

TAR 102 Race, Gender and Theatre (3 credits)

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)

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)

Taught: Fall and spring

Basic principles and techniques.

TAR 111 Creative Expression (3 credits)

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)

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)

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)

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)

Corequisite: TAR 160L

Taught: Fall and spring

Basic elements of scenery construction or basic sewing skills for theatrical costumes overview of theatrical production emphasizing practical application

TAR 160L Stagecraft Laboratory (1 credit)

Corequisites: TAR 160.

Taught: Fall and spring

Practical application of elements acquired in TAR 160.

TAR 165 Comparative Arts (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

Corequisites: 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)

Corequisites: TAR 262.

Taught: Fall only

Practical application of skills and techniques acquired in TAR 262.

TAR 265 Fundamentals of Theatrical Design (3 credits)

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)

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)

Prerequisites: TAR 210.

Taught: Spring only

Advanced acting techniques and considerations; detailed scene analysis and repertory building.

TAR 311 Auditions (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

Prerequisites: TAR 160.

Taught: Spring only-odd years

Introduction to commonly used graphic and rendering programs. Exploration of projections, projectors and their use in theatre productions.

TAR 365 Costume Crafts (3 credits)

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)

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)

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)

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)

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)

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)

Prerequisites: TAR 160.

Taught: Fall only

Duties and responsibilities of the theatrical stage manager.

TAR 377 Sound Design (3 credits)

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)

Taught: Fall only

Art and craft of writing dramatic material for stage presentation.

TAR 390 Production Credits (1 credit)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

Taught: Variable, check with department
American musical theatre literature from mid-20th century to the present.

TAR 461 Scene Painting (3 credits)

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)

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)

Prerequisites: TAR 262 or consent of instructor.

Taught: Variable, check with department
Advance costume construction techniques, including pattern drafting, cutting, draping; practical application in preparation for university productions.

TAR 470 Directing II (3 credits)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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)

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.

University Programs Courses (UNV)**UNV 101 Orientation to College and Beyond (1-3 credits)**

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)

Prerequisites: Junior standing; minimum GPA of 3.0; instructor consent.

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.

Vocational Teacher Education Courses (VTE)**VTE 199 Independent Study: Vocational Pre-Certification (3 credits)**

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 (3 credits)**

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)

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)

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)

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)

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)

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 311 Philosophy of Woman (3 credits)

Prerequisites: 3 semester hours in philosophy or women's and gender studies.
Taught: Variable, check with department
 Traditional philosophical conceptions of woman's nature and her proper role in society, including the ideas of Plato, Aristotle, Rousseau, Sartre, and others.

WGS 317 Gender and Communication (3 credits)

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 CMST 317. Students may not receive credit for both.

WGS 350 Perspectives in Feminist Theory (3 credits)

Prerequisites: WGS 150 or WGS 250 or consent of the instructor.
Taught: Spring only-even years
 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)

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)

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)

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)

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)

Taught: Spring only-even years
 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)

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)

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)

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)

Prerequisites: completion of one women's and gender studies course.
Taught: Spring only-odd years
 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)

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)

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.

World Languages Courses (WLL)**WLL 400 World Languages Program Assessment (0 credits)**

Prerequisites: senior standing and permission of department chair.
Taught: Spring only-odd years
 Required of all world language majors including students pursuing teacher certification in a world language. Assessment procedures and activities are scheduled during the last semester of residence or of graduation. Graded pass/fail.

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FACULTY

- Acosta, Charles A.**, Associate Professor of Biology, (2001). Ph.D., 1997, Old Dominion University.
- Agard, Dave B.**, Associate Professor of Statistics (1990). Ph.D., 1990, M.S., 1985, Virginia Polytechnic Institute; B.A., 1982, University of Virginia.
- Ahmed, Shamima**, Professor of Public Administration (1995). Ph.D., 1991, Virginia Polytechnic Institute & State University; M.A., 1986, University of Akron.
- Akers, Wesley R.**, Lecturer in Electronic Media (2004). M.A., 2005, Florida Atlantic University; B.A., 1996, Northern Kentucky University.
- Alberti, John**, Professor of English (1991). Ph.D., 1989, M.A., 1984, B.A., 1981, University of California Los Angeles.
- Allameh, Seyed M.**, Associate Professor of Engineering Technology (2004). M.S., 1998, Wayne State University; Ph.D., 1993, The Ohio State University; B.S., 1978, Sharif University of Technology.
- Allen-Kattus, Kimberly F.**, Associate Professor of Art (1988). Ph.D., 1996, The Union Institute; M.A., 1983, University of Cincinnati; B.A., 1976, Indiana University of Pennsylvania.
- Allen, James G.**, Assistant Professor of Educational Leadership (2010). Ed.D., 2003, Urban Educational Leadership; M.Ed., 1994, University of Cincinnati; B.S., 1991, University of Cincinnati.
- Almquist, Arne J.**, Associate Provost for Library Services and Associate Professor of Library Services (2010). Ph.D., 2006, M.S., 1992, University of North Texas; M.F.A., 1982, B.A., 1980, BFA, 1980, University at Buffalo.
- Altekruse, Michael K.**, Professor of Counseling & Human Services (2005). Ed.D., 1967, M.S., 1965, B.S., 1962, Indiana University.
- Andersen, Barry W.**, Professor of Art (1975). M.F.A., 1975, University of Florida; B.A., 1973, California State University, Northridge.
- Anderson, Margaret M.**, Professor of Nursing (1994). Ed.D., 1990, University of Cincinnati; M.S., 1980, Wright State University; M.Ed., 1972, University of Cincinnati; B.S., 1967, Indiana University.
- Arrighi, Barbara A.**, Professor of Sociology (1989). Ph.D., 1991, M.S., 1986, B.S., 1982, University of Cincinnati.
- Attenweiler, William J.**, Associate Professor of Psychology (2002). Ph.D., 2002, M.S., 2000, Clemson University; B.A., 1975, University of Maine.
- Bailey, Rebecca J.**, Associate Professor of History (2006). Ph.D., 2001, M.A., 1990, West Virginia University, B.A., 1988, College of William and Mary.
- Baker, Matthew**, Assistant Professor of Journalism (2008). Ph.D., 2008, University of Utah; M.A., 2004, University of Minnesota - Twin Cities.
- Baldrige, Hildegard A.**, Lecturer in Biology (1996). Ph.D., 1983, University of Kentucky; B.S., 1978, Eastern Kentucky University.
- Bales, Rick A.**, Professor of Law and Legal Studies (1998). J.D., 1993, Cornell Law School; B.A., 1990, Trinity University.
- Ball, Pamilla J.**, Lecturer in Chemistry (2005). Ph.D., 2005, B.S., 2001, B.S., 2000, University of Cincinnati.
- Baranowski, Michael K.**, Associate Professor of Political Science (2001). Ph.D., 1997, M.A., 1996, University of Kentucky; B.A., 1992, Baldwin-Wallace College.
- Bardgett, Mark E.**, Professor of Psychology (2000). Ph.D., 1991, M.A., 1989, B.A., 1986, University of Missouri-St. Louis.
- Bartlett, Robin M.**, Associate Professor of Psychology (2000). Ph.D., 2000, M.A., 1997, B.A., 1993, West Virginia University.
- Beehler, Pamela**, Associate Professor of Exercise Science (2008). Ph.D., 1986, Indiana University; M.Ed., 1980, East Stroudsburg University; B.S., 1977, The Pennsylvania State University.
- Belland, Diana D.**, Professor of Music (1981). D.M.A., 1978, M.M., 1972, The Ohio State University; B.S., 1968, The Juilliard School.
- Benham, Liza A.**, Assistant Professor of Political Science (2007). Ph.D., 2006, Binghamton University; M.P.A., 1996, Columbus State University; B.A., 1968, Bennett College.
- Bennett, Donna S.**, Professor of Library Services (1979). M.A., 1974, University of Tennessee; M.L.S., 1970, University of Kentucky; A.B., 1969, Wilmington College.
- Beresford, Mary Jo**, Lecturer in Theatre (1988). M.F.A., 1977, University of Cincinnati; B.A., 1971, Edgely College.
- Bergman, Kathy B.**, Lecturer in Nursing (2008). M.S.N, 1978, University of Cincinnati; B.S.N, 1976, Syracuse University.
- Bertog, Janet L.**, Associate Professor of Geology (2003). Ph.D., 2002, University of Cincinnati; M.S., 1997, B.S., 1995, South Dakota School of Mines & Technology.
- Besnoy, Kevin D.**, Assistant Professor of Education (2006). Ph.D., 2006, University of Southern Mississippi; M.A., 1998, B.A., 1995, University of Alabama.
- Bickers, John M.**, Associate Professor of Law and Legal Studies (2006). L.L.M., 2003, Georgetown University Law Center; L.L.M., 1999, Judge Advocate General's School (Army); J.D., 1991, University of Michigan Law School; A.B., 1985, Cornell University.
- Billings Jr., Roger D.**, Professor of Law and Legal Studies (1972). J.D., 1969, George Washington University, University of Akron, and Case Western Reserve University; B.A., 1959, Wabash College.
- Birkenhauer, Matt E.**, Lecturer in Educational Outreach (1996). M.A., 1986, University of Kentucky; B.A., 1981, Thomas More College.
- Bishop, David M.**, Professor of Education (1977). Ed.D., 1982, State University of New York at Buffalo; M.Ed., 1973, University of Vermont; B.S., 1968, University of Rochester.

- Bishop, Paul D.**, Associate Professor of Psychology (1975). Ph.D., 1972, M.S., 1968, Ohio University; B.A., 1965, Lewis and Clark College.
- Bloch, Janel**, Assistant Professor of English (2008). Ph.D., 2000, Iowa State University; M.A., 1997, Miami University; M.B.A., 1987, Indiana University; B.B.A., 1985, University of Wisconsin-Eau Claire.
- Boateng, Samuel**, Associate Professor of Geology (2001). Ph.D., 1996, University of Missouri-Rolla; M.S., 1992, University of Windsor; B.S., 1983, University of Science & Tech.
- Boltz, Sharlene W.**, Professor of Law and Legal Studies (1991). J.D., 1985, The University of Michigan Law School.
- Bowers, Thomas J.**, Associate Professor of English (2005). Ph.D., 2005, Iowa State University; M.A., 1999, University of South Carolina; B.A., Cleveland State University.
- Bowling, Bethany V.**, Assistant Professor of Biology (2007). Ph.D., 2007, M.S., 2004, University of Cincinnati; B.A., 2002, Thomas More College.
- Boyce, Rick L.**, Associate Professor of Biology (2002). Ph.D., 1990, M.S., 1986, Master of Forest Science, 1986, Yale University; B.A., 1991, Williams College.
- Bradtmueller, Jim P.**, Assistant Professor of Construction Management (2009). Ph.D., 1992, M.S., 1987, B.S., 1984, Purdue University.
- Brauer, Tobias R.**, Assistant Professor of Graphic Design (2003). M.Des., 2003, University of Cincinnati, School of DAAP; BFA, 1998, The Art Academy of Cincinnati.
- Braun, Frank C.**, Lecturer in Business Informatics (2000). Ph.D., 2007, Case Western Reserve University; M.B.A., 1986, Xavier University; B.S., 1981, Miami University.
- Bredemeyer, Carol A.**, Professor of Library Services (1978). M.L.S., 1981, University of Kentucky; B.A., 1978, Morehead State University.
- Breitenbecher, Kimberly A.**, Associate Professor of Psychology (2001). Ph.D., 1995, M.S., 1992, Ohio University; B.A., 1990, Miami University.
- Bresser, Wayne J.**, Associate Professor of Physics (1992). Ph.D., 1986, M.S., 1980, University of Cincinnati; B.A., 1977, Thomas More College.
- Brittingham, Joshua L.**, Advisor/Lecturer (2008). M.Ed., 2007, Wright State University; B.A., 2003, Capital University.
- Broering, Janis R.**, Senior Lecturer in Mathematics (1982). M.S., 1971, The Ohio State University; B.A., 1969, Thomas More College.
- Brooks, Andrea W.**, Lecturer in Library Services (2010). M.L.S., 2009, Kent State University.
- Bruno, Rachelle M.**, Professor of Education (1979). Ed.D., 1979, M.Ed., 1976, University of Cincinnati; B.A., 1969, Saint Mary's College.
- Buckley, Brooke E.**, Assistant Professor of Statistics (2006). Ph.D., 2006, University of South Carolina; B.S., 2001, Eastern Kentucky University.
- Bullen, Heather A.**, Associate Professor of Chemistry (2004). Ph.D., 2002, Michigan State University; B.A., 1998, Albion College.
- Burr, Mei Mei L.**, Lecturer in Psychology (1997). Ph.D., 1994, University of Cincinnati; M.Ed., 1988, The College of William & Mary; A.B., 1985, Kenyon College.
- Bush, Michael**, Assistant Professor of Criminal Justice (2009). Ph.D., 2005, Indiana University of Pennsylvania; M.A., 2004, B.S., 2001, East Tennessee State University.
- Byam, Paige**, Associate Professor of English (1992). Ph.D., 1993, M.A., 1986, University of Wisconsin; B.A., 1983, University of Iowa.
- Campan, Alina**, Assistant Professor of Computer Science (2007). Ph.D., 2006, M.S., 2000, B.S., 1999, Babes-Bolyai University.
- Campbell, Nancy F.**, Associate Professor of Library Services (1981). M.S., 1977, University of Kentucky.
- Carpenter, Gloria J.O.**, Assistant Professor of Psychology (2009). Ph.D., 2005, M.A., 2002, Miami University; B.S., 1999, Florida Agricultural and Mechanical University.
- Carrell, Michael R.**, Professor of Management (1986). D.B.A., 1976, University of Kentucky; M.B.A., 1972, B.A., 1970, University of Louisville.
- Cassiere, Janis M.**, Lecturer (1983). M.A.T., 1996, Athenaeum of Ohio; B.A., 1965, Edgewood College.
- Cata, Teuta M.**, Assistant Professor of Business Informatics (2003). Ph.D., 2003, University of Nebraska Lincoln; M.B.A., 1998, University of Nebraska Lincoln and University of Tirana; B.S., 1990, University of Tirana.
- Cate, Tom**, Professor of Economics (1975). Ph.D., 1979, M.S., 1974, Florida State University; B.A., 1971, Assumption College.
- Cellio Miller, Jennifer**, Assistant Professor of English (2009). Ph.D., 2008, Miami University; M.A., 2000, University of Idaho; B.A., 1997, Miami University.
- Champion-Hughes, Ruth**, Associate Professor of Business Law (1994). J.D., 1985, Southern University; B.S., 1994, University of Cincinnati.
- Chavez, Anthony**, Assistant Professor of Law and Legal Studies (2009). J.D., 1986, Yale Law School; B.S., 1982, Loyola Marymount University.
- Chesnut, Mary T.**, Associate Professor of Library Services (1988). M.L.S., 2002, University of Kentucky; B.A., 1988, Centre College.
- Christensen, Chris**, Professor of Mathematics (1983). Ph.D., 1977, M.S., 1972, Purdue University; B.S., 1968, Michigan Technological University.
- Churchill, Joy A.**, Associate Professor of Nursing (1992). M.S.N., 1978, B.S.N., 1973, University of Kentucky.
- Clayton-Code, Kimberly P.**, Associate Professor of Education (2001). Ph.D., 2002, University of Louisville; M.A., 1995, Northern Kentucky University; B.S., 1994, Purdue University.
- Clayton, Gary E.**, Professor of Economics (1980). Ph.D., 1974, University of Utah; M.A., 1968, University of New Hampshire; B.A., 1966, Nasson College.
- Cline, Jennifer A.**, Lecturer in Nursing. M.S.N., 1996, Northern Kentucky University; B.S.N., 1985, Murray State University.

- Cobbs, Joe**, Assistant Professor of Sports Business (2010). Ph.D., 2010, University of Massachusetts-Amherst; M.A., 2000, The Ohio State University; B.S., 1999, Miami University.
- Cole, Laura J.**, Lecturer in Business Informatics (2008). M.B.A., 1992, B.S., 1980, Wayne State University; CER, 1973, Ann Arbor Practical Nurse Education Center.
- Connelly, Caryn C.**, Assistant Professor of Spanish (2007). Ph.D., 2006, University of Minnesota; M.A., 1992, Arizona State University; B.A., 1989, Albright College.
- Conrad Redden, Aprile D.**, Lecturer in Political Science (1994). M.P.A., 1996, B.S., 1990, Northern Kentucky University.
- Cook, Christopher M.**, Associate Professor of Education (2004). Ph.D., 2004, University of North Carolina Greensboro; M.A., 2001, B.S., 1995, Appalachian State University.
- Cooper, Paul D.**, Associate Professor of Construction Management (1985). M.S., 1977, Murray State University; B.S., 1966, Southeast Missouri State University.
- Corcoran, Kevin**, Professor of Psychology (2006). Ph.D., 1984, M.A., 1982, University of Connecticut.
- Cornuelle, Andrea J.**, Associate Professor of Radiological Technology (1982). M.S., 1982, B.S., 1981, University of Kentucky; A.S., 1975, Northern Michigan University.
- Costabile-Heming, Carol Anne**, Professor of German (2008). Ph.D., 1992, Washington University in St. Louis; M.A., 1989, B.A., 1985, University of Pennsylvania.
- Crites, Steve**, Associate Professor of Education (2007). Ph.D., 2001, Auburn University; M. Ed., 1997, University of New Orleans; B.A., 1981, Manchester College.
- Cullick, Jon S.**, Professor of English (2001). Ph.D., 1997, University of Kentucky; M.A., 1990, Marquette University; B.A., 1986, University of Houston.
- Cunningham, Scot**, Lecturer in Computer Science (2009). M.S.C.S., 2007, Northern Kentucky University.
- Cupito, Mary C.**, Associate Professor of Journalism (1997). M.A., 1981, New York University; B.A., 1976, Rutgers College.
- Curran, Christine**, Assistant Professor of Biology (2008). Ph.D., 2007, M.S., 1992, University of Cincinnati; B.S., 1978, Ohio University.
- Curtin, Daniel J.**, Professor of Mathematics (1979). Ph.D., 1979, University of North Carolina at Chapel Hill; A.B., 1973, University of Notre Dame.
- Curtis, Kent**, Professor of Organizational Leadership (1970). Ed.D., 1976, University of Cincinnati; M.A., 1966, Xavier University; A.B., 1961, Centre College of Kentucky.
- D'Souza, Rodney**, Assistant Professor of Management (2008). Ph.D., 2009, University of Louisville; M.B.A., 2003, Northern Kentucky University; Master of Computer Management, 2001, Bachelor of Commerce, 1999, University of Pune.
- Dahlem, Gregory A.**, Senior Lecturer in Biology (1990). Ph.D., 1989, Michigan State University; M.S., 1984, B.S., 1981, The Ohio State University.
- Dallmer, Denise**, Associate Professor of Education (1999). Ph.D., 1992, M.A., 1989, The Ohio State University; B.A., 1978, Miami University.
- Davis, Pamela E.**, Assistant Professor of Nursing (2008). M.S.N., 2008, University of Kentucky; B.S.N., 1979, College of Mt. St. Joseph on the Ohio; B.S., 1976, The Ohio State University.
- De Blasio, Greg G.**, Associate Professor of Public Relations (2004). Ph.D., 2005, Wayne State University; M.A., 1978, Pennsylvania State University; B.A., 1976, William Paterson University.
- Dean, Adele**, Associate Professor of Nursing (2000). M.S.N., 2000, Case Western Reserve University; B.S., 1980, University of Bridgeport; B.S., 1974, Southern Connecticut State University.
- Deluca, Suzanne K.**, Senior Lecturer in History (1994). M.A., 1987, University of Cincinnati; B.S., 1971, Auburn University.
- Dempsey, Deborah**, Senior Lecturer in Biology (1980). R.N., 1991, Northern Kentucky University; M.S., 1981, University of Cincinnati; B.S., 1974, University of Kentucky.
- Detmer-Goebel, Emily A.**, Associate Professor of English (2003). Ph.D., 1997, M.A., 1992, M.A., 1995, Miami University; B.A., 1983, Wright State University.
- Dinsey-Read, Kim A.**, Assistant Professor of Nursing (2005). M.S.N., 2006, B.S.N., 2004, Northern Kentucky University.
- Dollins, Ann M.**, Associate Professor of Nursing (1997). Ph.D., 1997, M.S.N., 1992, University of Cincinnati; M.P.H., 1980, Johns Hopkins University; B.S.N., 1976, American University; A.D., 1973, Miami University.
- Downing, Megan S.**, Lecturer in Organizational Leadership (2006). CER, 2009, M.S., 2006, B.S., 2002, Northern Kentucky University.
- Doyle, Maureen**, Associate Professor of Computer Science (2006). Ph.D., 2004, M.S., 2001, Stanford University; M.S., 1990, Northeastern University; B.S., 1982, University of Lowell.
- Drabik, Sara L.**, Lecturer in Electronic Media (2008). M.A., 2008, Northern Kentucky University; BFA, 1999, Ithaca College.
- Dreese, Donelle N.**, Associate Professor of English (2004). Ph.D., 1999, M.A., 1995, Indiana University of Pennsylvania; B.A., 1992, Susquehanna University.
- Dunevant, David L.**, Associate Professor of Music (1984). M.M., 1977, University of Cincinnati; B.A., 1974, Murray State University.
- Durtsche, Richard D.**, Associate Professor of Biology (2000). Ph.D., 1999, University of Oklahoma; M.A., 1988, California State; B.A., 1983, B.S., 1983, University of Minnesota.
- Dynan, Linda**, Associate Professor of Economics (2004). Ph.D., 1994, M.A., 1991, M.Phil., 1991, Columbia University; B.A., 1986, University of Pennsylvania.
- Edwards, Grant A.**, Lecturer in Chemistry (2006). Ph.D., 2006, Iowa State University; B.S., 2002, Truman State University.

- Eippert, Gary**, Lecturer II of Kinesiology (1996). Ph.D., 1994, M.Ed., 1989, University of Toledo; B.S., 1986, Miami University.
- Eisenhardt, Sara K.**, Assistant Professor of Education (2007). Ed.D., 1999, University of Cincinnati; M.Ed., 1977, Xavier University; B.A., 1976, University of Nebraska.
- Elder, David**, Regents Professor of Law and Legal Studies (1978). L.L.M., 1973, Columbia University School of Law; J.D., 1972, St. Louis University.
- Elifrits, C. Dale**, Professor of Geology (2002). Ph.D., 1980, M.S., 1976, University of Missouri-Rolla; M.S., 1971, University of Northern Iowa; B.S., 1966, Northwest Missouri State University.
- Elliott, Teresa**, Assistant Professor of Business Law (2003). J.D., 1990, University of Kentucky College of Law; B.A., 1987, Northern Kentucky University.
- Elliott, Willie L.**, Associate Professor of Social Work (1989). M.S.W., 1973, University of Kentucky; B.A., 1971, Kentucky State University.
- Ellis, Allen W.**, Professor of Library Services (1985). M.L.S., 1984, Indiana University; A.A., 1980, Sinclair Community College; B.A., 1978, Wright State University.
- Ellis, Paul G.**, Lecturer in Learning Assistance (1982). M.A., 1976, University of Cincinnati.
- Encarnacion, Irene**, Senior Lecturer in Spanish (1991). M.A., 1986, University of California at Berkeley; B.A., 1983, University of Puerto Rico.
- Engebretson, Ken D.**, Assistant Professor of Counseling & Human Services (2005). Ph.D., 2002, Auburn University; M.S., 1993, University of Dayton; B.S., 1991, Wright State University.
- Engel, Deborah R.**, Lecturer in Nursing (2008). M.S.N., 2008, Northern Kentucky University; B.S.N., 1990, College of Mt. St. Joseph; R.N.-Diploma, 1981, Christ Hospital School of Nursing; B.A., 1976, University of Central Florida.
- England, Ana**, Professor of Art (1986). M.F.A., 1984, M.A., 1983, San Jose University; B.A., 1975, New College.
- Faulkner, Shawn A.**, Associate Professor of Education (2004). Ph.D., 2003, University of Toledo; Ed.S., 1998, M.Ed., 1991, Wright State University; B.S., 1988, Tennessee Temple University.
- Feldmann, Douglas A.**, Associate Professor of Education (2005). Ph.D., 1999, Indiana University; M.A., 1995, Rockford College; B.A., 1992, Northern Illinois University.
- Fernando, Sharmanthie M.**, Associate Professor of Physics (1998). Ph.D., 1999, M.S., 1997, M.S., 1993, University of Cincinnati; B.S., 1991, University of Moratuwa.
- Ferner, Jodi P.**, Senior Lecturer in English (1998). M.A., 1983, B.A., 1981, University of California, Santa Barbara.
- Ferrante, Joan**, Professor of Sociology (1984). Ph.D., 1984, M.A., 1978, University of Cincinnati; B.S., 1977, Northern Kentucky University.
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KENTUCKY RESIDENCY

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 presenting 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 a change of address or the payment of Kentucky withholding taxes for the 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.
- Obtained a long-term lease of at least 12 consecutive months for non-collegiate housing.
- Married a Kentucky resident.
- Had a continued presence in Kentucky during academic breaks.
- Relied on a certain level of dependency 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 registrar's website.

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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