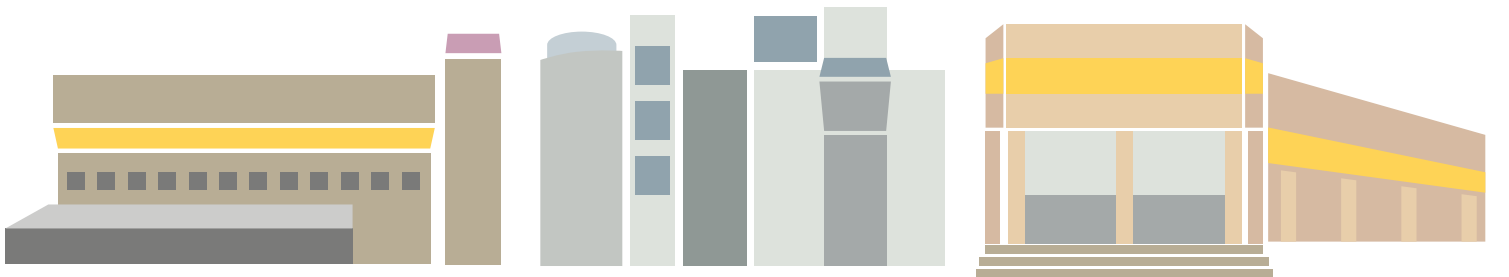
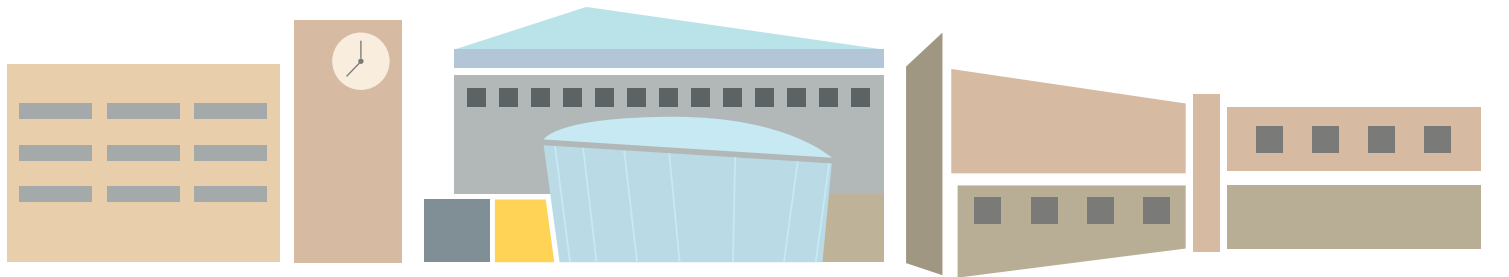
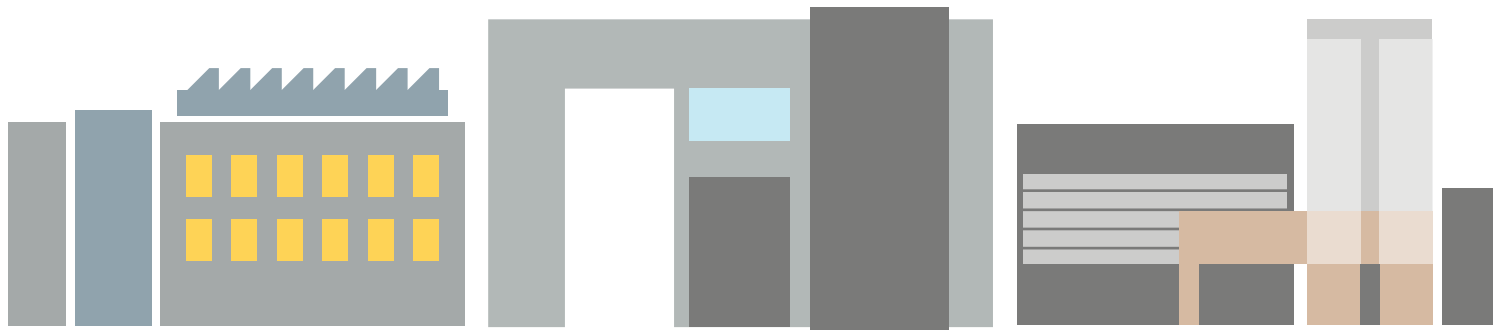


DREAMS TAKE YOU PLACES, BUT YOUR FIRST STOP IS HERE



NORTHERN KENTUCKY UNIVERSITY • UNDERGRADUATE CATALOG • 2014-2015

My cover design for this catalog embraces the impact of NKU both on campus and beyond. As a student, one of the first things I noticed here were the numerous programs promoting student, faculty, and staff interaction with surrounding institutions, both academic and commercial. Everyone that has helped my education has been supportive, active, and eager to see both my success and the University's success.

NKU has become a premier location for students looking to go beyond their doorsteps and out into the world. We embrace the growth of not only our own buildings and campus, but that of surrounding cities in Kentucky, Ohio, and anywhere else you may want to go. An environment has been created here where students can achieve beyond themselves with no limitations. NKU wants nothing to get in the way of dreams.

The community that is NKU allows our university to grow towards its goals inclusively. There is an acceptance, an understanding of everyone here, that any subject students choose to study is important and their dream is always worth pursuing. There is a passion for greatness in the faculty, staff, and students. It is these people that allow this community of growth and hope to foster.

Jim Merritt
BFA Candidate, Visual Communication Design
Department of Visual Arts

The catalog cover design, the banner graphic for the online catalog and the art for the CD version were designed under the art direction of Professor Julie Mader-Meersman as an independent project.

NORTHERN KENTUCKY UNIVERSITY
UNDERGRADUATE CATALOG 2014-15

The Catalog

The university's catalog is the document of authority for all students. It contains detailed information that will help students succeed in their degree and certificate programs, have a positive university experience, and graduate in a timely manner. The catalog contains information on domestic and international admissions; tuition and fees; degree requirements for every program; general education requirements; university-wide graduation requirements; academic opportunities; support services; enrichment opportunities; university policies and procedures; and faculty and administration. It also contains a brief description of each of the courses offered by the university. Students are strongly urged to read the catalog carefully and work closely with their advisors.

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

Catalog Changes

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

University Accreditation

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

Disclosures

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

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ABOUT NKU

Mission

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

Our 2018 Vision

Northern Kentucky University will be acclaimed by students, alumni, the region, and the commonwealth for:

- **Our Success**...in preparing graduates for a global society.
- **Our Contribution**...to regional progress and economic growth.
- **Our Delivery**...of distinctive academic programs.
- **Our Dedication**...to the development and wellbeing of our people.
- **Our Effectiveness**...in securing and managing resources sustainably.

Our Core Values

These are the core values that Northern Kentucky University embraces as we go about our work:

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

Institutional History

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

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

Rapid growth occurred during the early years: nine buildings were constructed in the 1970s. The Salmon P. Chase Law School of Cincinnati merged with NKSC in 1971, and the first intercollegiate men's basketball game was held that year. The first NKSC commencement ceremony was in the spring of 1973; graduate programs were added in 1975; the state

college became a full-fledged university in 1976; and before the end of the decade the athletics program was winning regional championships. Chase Law School moved to the main campus in 1982. The first residence hall also opened that year, marking a shift from a student body composed exclusively of local commuters to a more diverse one from across the nation and the globe. When President Steely resigned in September 1975, the school enrolled almost 4,300 students.

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

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

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

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

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

NKU Today

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

Today, NKU is a vibrant, exciting center of teaching and learning, research and creative work, and service to the northern Kentucky region, the commonwealth, the nation, and the world. The university unveiled a new five-year strategic plan in 2013 that will focus on the success of students in the classroom and beyond. The plan emphasizes a transdisciplinary approach to teaching and learning, expanding upon and extending the principles of interdisciplinary study by fostering a holistic approach to studying topics that arise at the intersection of business, science, law, and culture.

A transdisciplinary approach deepens our understanding of real-life experiences, creating greater opportunities to address society's problems. This approach will instill innovation and creativity in NKU graduates, ensuring they are prepared to become the leaders of tomorrow.

Accreditations

Northern Kentucky University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate, baccalaureate, masters, and doctoral degrees. Contact SACSCOC at 1866 Southern Lane, Decatur, GA, 30033-4097 or call 404-679-4500 for questions about the accreditation of Northern Kentucky University.

The following organizations have accredited specific NKU programs: AACSB International—the Association to Advance Collegiate Schools of Business; American Bar Association; American Chemical Society (ACS); American Council for Construction Education (AACE); Commission on

Accreditation of Athletic Training Education (CAATE); Commission on Accreditation for Respiratory Care (CoARC); Council on Social Work Education (CSWE); Joint Review Committee on Education in Radiologic Technology (JRCERT); National Association of Schools of Music (NASM); National Association of Schools of Public Affairs and Administration (NASPAA); National Council for Accreditation of Teacher Education (NCATE); Accreditation Commission for Education in Nursing; and Technology Accreditation Commission, ABET, Inc.

Campus Map

NKU makes available online a variety of campus maps (<http://www.nku.edu/campusmaps.html>) including: 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 driving directions to the Highland Heights campus.

Campus Calendars

NKU provides a variety of calendars online (<http://nku.edu/calendars.html>), including a public events calendar and several academic calendars. In addition, there are calendars of specific 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 table:

1. The **bachelor** column shows the majors and the degree (or degrees) associated with each major: BS = Bachelor of Science; BA = Bachelor of Arts; BFA = Bachelor of Fine Arts; BM = Bachelor of Music; BSN = Bachelor of Science in Nursing; and BSW = Bachelor of Social Work.
2. The **certificate** column lists "PB" for a postbaccalaureate certificate and "U" for an undergraduate certificate.
3. The other columns indicate by "AD" if one can earn an associate degree; "M" if one can earn a minor; and "TC" if one can obtain teacher certification in the listed discipline.
4. In addition, three superscript codes are used:

* means students with an interest in majoring in one of these fields will be placed in a pre-major status.

P means the program is available through PACE, a special program for adult learners; these programs are also available through a traditional delivery model.

O means the program is available online; most of these programs are also available through a traditional delivery model.

Discipline	Associate	Bachelor	Minor	Teaching Certification	Certificate
Accounting		BS*	M		
(General) Accounting					PB
Aging and Society			M		
Ancient Civilizations			M		
Anthropology		BA			
Archaeology			M		
Art		BA/BFA	M	TC	
Art History			M		
Athletic Training		BS			
Biological Sciences		BA/BS	M		
Biology				TC	
Black Studies			M		
(Pre)-Business Studies	AD ^P				
Business Administration		BS* ^P	M		
Business Informatics		BS* ^P	M		U ^O
Celtic Studies			M		
Ceramics and Sculpture Arts			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			M		
Creative Writing			M		
Criminal Justice		BA ^O	M		
Criminalistics			M		
Cyber Security					U ^O
Data Science		BS			
(Interdisciplinary) Early Childhood Education		BA		TC	
Earth/Space Science				TC	
Economics		BS	M		
(Applied) Economics and Public Policy					PB
Electronic Media and Broadcasting		BA	M		
Electronics Engineering Technology		BS			
Electronics Technology			M		
Elementary Education		BA*		TC	
English		BA	M	TC	

Discipline	Associate	Bachelor	Minor	Teaching Certification	Certificate
Entrepreneurship		BS	M		PB ⁰
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 ⁰			
History		BA ⁰	M ⁰		
Honors			M		
Human Resource Management		BS			
Human Services and Addiction		BS			
Industrial Technology			M		
Information Security			M		
Information Systems Development					PB
Information Systems Management					PB
Integrative Studies	AD ^P	BA ^{OP}			
International Studies		BA	M		
Japanese Language and Culture			M		
Journalism		BA	M		
Latin American & Caribbean Studies			M		
Library Informatics		BS ⁰			
Management		BS*	M ⁰		
Marketing		BS*	M		
Marketing Research					PB
Mathematics		BS	M	TC	
Mechanical & Manufacturing Engineering Technology		BS			
Media Informatics		BA	M		
Medieval and Renaissance Studies			M		
Middle Eastern & North African Studies			M		
Middle Grades Education		BA*		TC	
Military History			M		
Music		BA/BM*	M	TC	
Native American Studies			M		
Neuroscience			M		
Nursing		BSN*			
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	M		
Popular Culture			M		
Pre-Law			M		
Professional Writing			M		
Psychology		BA/BS	M		
Public Service			M		
Public Relations		BA			

Discipline	Associate	Bachelor	Minor	Teaching Certification	Certificate
Radiologic Technology	AD*				
Religious Studies			M		
Respiratory Care	AD*				
Social Justice			M		
Social Studies				TC	
Social Work		BSW			
Sociology		BS	M		
Software					U
Spanish		BA	M	TC	
Special Education		BA		TC	
Sports Business		BS*			PB
Sports Medicine			M		
Stage Management		BFA			
Statistics		BS	M		
(Applied) Statistics			M		
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, health science, nursing, radiologic technology, and respiratory care. Please contact the appropriate program director for a selective admission application.

Graduate Programs

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

ADMISSIONS AND ENROLLMENT

General Admissions Information

Office: Undergraduate Admissions

Location: Lucas Administrative Center 400

Telephone: 800-637-9948 -- OR -- 859-572-5220

Fax: 859-572-6665

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

Director: Melissa Gorbandt

Other Key Personnel:

Assistant Director of Processing: Michele R. Hall

Office: Transfer Service Center

Location: Lucas Administrative Center 301

Telephone: 859-572-5556

Fax: 859-572-6094

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

Director: Ava Nienaber

Other Key Personnel:

Assistant Director of Transfer Services: Kelsey Bevins

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

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

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

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

Important Admission Deadlines*

	For Fall Semester	For Spring Semester
Freshman		
Early Action	January 15	
Priority		November 1
Assured Consideration	February 15	
Enrollment Confirmation	May 1	December 1
Final Deadline	July 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	July 1	December 1

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

Deadline Definitions

Early Action

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

Priority

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

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

Assured Consideration

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

Enrollment Confirmation

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

Final Deadline

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

Admission Requirements and Procedures

Freshman Applicants

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

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

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

Home School and Independent Study Applicants

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

1. An online application form (<http://apply.nku.edu>).
2. A \$40 nonrefundable application fee.*
3. ACT or SAT scores.

4. A notarized statement from the home-school teacher detailing the content of the student’s home-school curriculum, letter grades, and the duration of each course.
5. A pre-college curriculum form completed by the home school teacher.

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

Application Evaluation

The Office of Undergraduate Admissions evaluates the applications of every degree-seeking freshman. Only completed applications are reviewed. The evaluation focuses on:

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

*Combined mathematics and critical reading score

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

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

Kentucky Pre-College Curriculum

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

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

Exception 2: A student with a PCC deficiency who achieved an ACT or SAT score that falls within the top 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. A minimum COMPASS score of English 74 or higher, mathematics 35 or higher, and reading 81 or higher. (For applicants 21 years of age or older)
3. Completion of the Kentucky Pre-College Curriculum (waived for applicants 21 years of age or older).
4. Students are required to submit all required credentials to be considered for admission. NKU reserves the right to verify authenticity of all submitted educational credentials.

Admission with Conditions

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

1. Conditionally admitted students are required to take placement test(s) and enroll in any required developmental courses during their first year.
2. Students who are granted admission with two or more academic deficiencies are assigned to Norse Advising. Norse Advising advises students regarding their academic plan and refers students to appropriate support programs. The students may have a limited course load for their first semester. The limited course load and mandatory

academic support may be continued if a student is not in good standing after his or her initial semester.

- Students admitted with conditions may not declare/change a major until all conditions are satisfied.
- First-time freshmen who are granted admission with two or more academic deficiencies will be admitted to an associate degree program and must participate in the Pathfinders Program.* Through the Pathfinders Program, students must participate in a variety of advising appointments, study sessions and special programs to maintain their enrollment eligibility. Please visit the website for specific details (<http://pathfinders.nku.edu>).

*Students who are 21 years of age or older are exempt from the Pathfinders Program and should follow the requirements outlined in #2 above.

Some applicants with two or more academic deficiencies could be placed on a waiting list to have their files reviewed by an admissions committee. A limited number of wait-listed students with the strongest academic record may be offered admission if there is space remaining in the freshman class.

Students Denied Admission

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

Transfer Admission

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

- An online application form (<http://apply.nku.edu>).
 - A \$40 nonrefundable application fee.*
 - Official transcripts from each college attended.
- *See the section on Application and Enrollment Fee Policies for information on fee waivers and fee exclusions.

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

- An online application form (<http://apply.nku.edu>).
- A \$40 nonrefundable application fee.*
- Official transcripts from each college attended.
- Final and official high school transcript or GED scores.
- ACT or SAT or COMPASS test scores.

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

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

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

- An online application form (<http://apply.nku.edu>).
- A \$40 nonrefundable application fee*.
- Official transcripts from each college attended.

- Final and official high school transcript or GED scores.
- ACT or SAT or COMPASS test scores.
- A letter of appeal.

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

Regular Admission – Transfer Students

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

Admission with Conditions – Transfer Students

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

- Conditionally admitted students may be ineligible to declare a major.
- Students admitted with conditions may not declare/change a major until all conditions are satisfied.
- Conditionally admitted students may be limited to a 12-credit course load for their first semester.

Advising and Registration of Transfer Students

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

Kentucky Postsecondary General Education/Framework Transfer Agreement

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

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

Articulation Agreements

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

mation, contact the Office of Transfer Services within the Office of the Registrar at 859- 572-5556.

Placement Testing

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

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

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

Nontraditional students who are admitted based on COMPASS scores are not required to take placement tests.

Students with an academic deficiency are required to enroll in all necessary developmental courses during their first two semesters at NKU. Developmental courses do not contribute to the credits required for graduation and will not be calculated in the GPA. Please refer to Learning Assistance Programs (<http://lap.nku.edu>) for more information and a listing of available developmental courses.

Readmission Applicants

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

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

Postbaccalaureate Applicants

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

1. An online application form (<http://apply.nku.edu>).
2. A \$40 nonrefundable application fee*.
3. Official transcripts from each college attended other than NKU.

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

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

School-Based Scholars Program

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

- Have completed the sophomore year of high school at the time classes are taken.
- Have earned an ACT/PLAN composite score of 20/18 respectively, or an SAT/PSAT mathematics and critical reading combined score of 940/94 respectively.
- Have earned a cumulative high school GPA of at least 3.0 on a 4.0 scale.
- Maintain a grade of *C* or higher in each college course completed prior to high school graduation.
- Have written permission from a high school principal or guidance counselor.
- Have written permission from a parent or guardian (if under age 18).
- Meet all prerequisites for the specific NKU courses in which they intend to enroll. For some courses, prerequisites include minimum ACT sub-scores in English, mathematics, or reading.

School-Based Scholars must submit the full program application prior to their first semester and proof of continued eligibility in each subsequent semester. For applications and deadlines for each semester, interested students should see their high school guidance counselor or visit the website (<http://nkusbs.nku.edu>).

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

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

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

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

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

Non-Degree Seeking Students

NKU offers a variety of non-degree options:

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

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

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

Application materials should be submitted by the following dates:

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

Non-Degree Policy

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

Permanent Resident Applicants

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

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

Adult Student Programs

Office: Educational Outreach

Location: Campbell Hall 270

Telephone: 859-392-2400 **Fax:** 859-392-2416

Email address: edoutreach@nku.edu

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

Executive Director: Vicki Berling

Other key personnel:

Associate Director of PACE and Cohort Learning: Debbie Poweleit

Associate Director of Online Learning: Kristen Lovett

Associate Director of Continuing Education: Kathy Yelton

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

The Program for Adult Centered Education (PACE)

Highly structured yet amazingly flexible, PACE operates on year-round eight-week sessions that enable adult learners to complete their degrees in a timely manner while continuing their work, family, and community obligations. Instruction is web enhanced with many workplace applications. A variety of degree options (<http://pace.nku.edu/undergradmajors.html>) are available through PACE including associate degrees in pre-business studies and integrative studies, and bachelor's degrees in business administration, business informatics, computer information technology, integrative studies, and organizational leadership.

In addition to meeting university admission standards, PACE applicants must meet requirements regarding work experience. PACE applications are accepted year-round and are available online (<http://apply.nku.edu>). Applicants should select the "PACE Student" application and "PACE" as the academic area of interest. Please note that the online application will display PACE as a non-degree program. This is for admission purposes only. All PACE students are degree seeking and, therefore, may apply for financial assistance.

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

Project Graduate

For adults who started their bachelor's degrees years ago but left college before finishing, Project Graduate provides an opportunity to complete a degree. This statewide initiative encourages former students at or approaching senior-class status (70 credits) to re-enroll and provides them with services to succeed. Prospective students can find out if they qualify for Project Graduate <http://adultlearner.nku.edu/projectgraduate.html> by calling 859-392-2400, sending an email (edoutreach@nku.edu), or by visiting the website (<http://adultlearner.nku.edu/projectgraduate.html>).

Online Learning

Educational Outreach provides administrative and student-support services for 24 fully online degree programs at the undergraduate and graduate levels plus hundreds of online courses. Through online learning, students can complete their educational goals at a time and place convenient to their schedule. The current list of fully online degree programs (<http://nkuonline.nku.edu>) and a list of courses (<http://nkuonline.nku.edu/courseofferings.html>) 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 email (nkuonline@nku.edu).

State Authorization

NKU recognizes that states have the authority to regulate colleges and universities offering education within that state's boundaries, which includes regulation of distance learning and online education. NKU is making good faith efforts to comply with the regulations in states where it serves students.

Out-of-state students are advised to check with their postsecondary governing board with specific questions about NKU's authority to provide specific degree programs. Out-of-state students considering programs that require subsequent licensure by the state of residence (i.e. nursing or education) may also check with the state licensure office. State-specific information is available online from SHEEO

(<http://www.sheeo.org/sites/default/files/Directory%20of%20State%20Authorization%20Agencies%20and%20Lead%20Contacts%20-%202006-2013%20-%20UPDATED.pdf>).

State Authorization Statements (as required by the states below)

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

Online Learning Student Complaint Information

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

Educational Partnerships with Employers

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

Professional Continuing Education

NKU provides continuing education programs covering a wide range of topics in a variety of delivery styles. Courses are available in NKU classroom settings, onsite at area businesses, and in various online formats. The current list of noncredit, professional education programs offered in conjunction with Educational Outreach can be found online (<http://adultlearner.nku.edu/continuinged.html>). More information can be obtained by sending an email (continuinged@nku.edu) or calling 859-392-2407.

Application and Enrollment Fee Policies

Application Fee Waivers

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

1. A high school counselor or principal.
2. A Talent Search counselor or Upward Bound official.

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

Application Fee Exemptions

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

Enrollment Confirmation Fee

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

Residency

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

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

Selective Admissions Programs

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

Northern Exposure: New Student Orientation Program

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

Traditional Undergraduate First-Time Students

New traditional age first-time freshman attend a two-day overnight orientation. This 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. Meeting with an advisor and course registration is included in this two-day program. Students are encouraged to bring their parent(s)/guardian(s) to day one of the program as there are concurrent breakout sessions for everyone to attend.

Transfer, Veteran and Nontraditional Students

Orientation for transfer* students is held in concurrence with the new, first-time, post-traditional student orientation. This is a one-day program offered in a conference-style format, that will educate students on the many services that NKU has to offer, answer questions they may have about college life and help them begin to build a strong success network at NKU. For transfer students, the orientation program depends on how many earned hours they are transferring to NKU. They may be eligible to participate in SCOOP: Student Centered Online Orientation Program versus attending the one-day, on campus program.

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

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

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

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

Enrolling and Registering for Classes

Building a Good Schedule

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

1. Know yourself. NKU classes are offered at a variety of times throughout the week: morning, afternoon, evening, and weekends. There are classes offered in a traditional face-to-face classroom on the main campus, classes offered online, and classes at the Grant County Center. What works best for you? Are you a morning person? What kind of outside obligations do you have? Will family or work

responsibilities impact the time you can take classes? Do you like the idea of online classes that require more self-directed learning?

2. Create a balanced schedule.
 - a. Balance the types of courses you choose. In a single semester, do not take five heavy reading classes, or three mathematics courses, or several heavy writing classes. Seek variety in the kinds of courses you will be taking.
 - b. Balance the times of courses you have in your schedule. Most courses meet Monday, Wednesday, and Friday for 50 minutes or Tuesdays and Thursdays for 75 minutes. Avoid taking all classes on the same few days. If you cannot avoid it, then be sure to schedule some breaks during the day so you have time to get up, walk around, and get something to eat.
3. If you need to take developmental classes, take them as soon as possible. These classes are essential to academic success in college-level courses, and they must be taken within the first two semesters of enrollment.
4. Meet with your advisor early in the semester to review your educational plan and choose your courses for the upcoming semester. Review any developmental courses that you might need. Be sure you are meeting the general education requirements as well as requirements for your major and minor.

Registering for Classes

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

Registration Holds

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

Housing

Location: Norse Commons 101

Telephone: 859-572-5676 **Fax:** 859-572-6099

Email Address: housing@nku.edu

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

Director: Arnie Slaughter

Other Key Personnel:

Associate Director for Residence Life: Victoria Suttmiller

Associate Director of Housing Operations: Cathy Carson

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

Campus housing includes traditional residence hall rooms as well as apartment-style living and suite-style living. Lounge areas, information desks, computer labs, laundry rooms, vending areas, loft/study areas, and space for student recreation are available to students who live in the residential village. NKU can accommodate 1,850 students in on-campus housing. The Association of Campus Residents represents residential students to the Office of University Housing and to the Student Government Association. ACR serves as a sponsor of residential village events and reviews and recommends university policy changes.

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

Meal Plans

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

INTERNATIONAL ADMISSIONS AND ENROLLMENT

Office: International Students and Scholars

Location: University Center 305

Telephone: 859-572-6517 **Fax:** 859-572-6178

Email Address: oiss@nku.edu

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

Director: Elizabeth Chaulk

Other Key Personnel:

Assistant Director of Immigration Services: Adam Widanski

International Academic Advisor: Samantha Muntis

Immigration Programs Advisor: Megan Lindle

Admissions Specialist: Jane Bratton

Specialist: Carmen Kirchgassner

Secretary: Ian Olson

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

Application Procedures

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

1. International online application for undergraduate admission* (<http://www.nku.edu/apply.html>).
2. A \$40 nonrefundable application fee.
3. Declaration and certification of finances.
4. Official or certified copies of transcripts of secondary coursework in the original language, appropriate certificates of examination (if applicable), AND certified English translations (if applicable).
5. An official transcript from each college or university attended AND certified English translations if applicable.
6. Evidence of English proficiency.

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

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

International Students	For Fall Semester	For Spring Semester
Priority deadline	May 1	October 1

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

English Proficiency

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

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

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

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

Placement Testing Requirements for International Students

Once admitted, all undergraduate international students (including transfer students) may be required to take one or more placement tests in order to determine placement in mathematics unless specifically exempted by the university. International students may choose to take the placement test in reading and writing if they wish to be exempt from "ENGI 099: Writing Workshop for International Students," "ENGI 080: Writing Lab for International Students", and "RDG 091: Reading Workshop." All placement tests may be taken only once and must be taken within a student's first semester at NKU. If international students do not place into a college-level course, they will be placed into the appropriate developmental course.

NKU College-Readiness Standards

TOEFL Paper-Based Scores	College-Ready Score
English	Composite 550 or higher
Reading	Reading 48 or higher
TOEFL Internet-Based Scores	College-Ready Score
English	Composite 79 or higher
Reading	Reading 14 or higher
IELTS Scores	College-Ready Score
English	Composite 6.5 or higher
Reading	Reading 5.5 or higher

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

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

Writing Placement Test

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

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

No transfer credit is given for English writing for any student who studied in a country where English is not the official or primary language of

instruction as determined by the Office of International Students and Scholars.

Reading Placement Test

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

Mathematics Placement Test

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

Developmental Courses

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

Developmental Literacy Courses

ENGI 080: Writing Laboratory for International Students	1 credit
ENGI 099: Writing Workshop for International Students	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 095: Essential Algebra	4 credits
MAHD 099: Intermediate Algebra	3 credits

English Transfer Credit Policy for International Students

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

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

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).

International students will not receive transfer credit or be exempt from taking "ENGI 099: Writing Workshop for International Students," "ENGI 080: Writing Lab for International Students," "ENG 101: College Writing," "ENG 291: Advanced College Writing," or any other English language course after initial admission to NKU. Articulation agreements do not include credit for English language coursework unless the university is located in a country where English is the official language. Please contact the Office of International Students and Scholars for a list of NKU-approved countries where English is the official language.

International Student Transfer Applicants

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

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

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

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

Jubail Industrial College

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

American English Language Program (AELP)

Location: University Center 405

Telephone: 859-572-6517 **Fax:** 859-572-6178

Email Address: aelp@nku.edu

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

Director: 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. The primary goals of the program are: (1) students will achieve an advanced level of English proficiency to be successful in university undergraduate and graduate settings, and (2) students will be able to speak fluently on topics related to university study and engage in conversation using everyday English.

AELP offers an intensive program (required of all F-1 or J-1 students) of 25 hours of instruction each week, a semi-intensive program of 15 hours of instruction each week, or a bridge program that allows students who have received the required exam score to take intensive English and university-level classes concurrently.

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

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

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

Undergraduate students who are unable to show proof of English proficiency may still apply and be **conditionally** admitted to a degree program at NKU. Conditionally admitted students must first enroll in the AELP and receive a certificate of completion. International students who have been dismissed or suspended from the AELP are not eligible to begin or resume studies at the university. In addition, students must obtain a minimum passing grade for the AELP and achieve a minimum passing score of 500 on the NKU English proficiency exam (institutional TOEFL) and/or a minimum cumulative passing score of 5.5 on the IELTS with sub-scores of 5.0 in both reading and writing.

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

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

Exchange Students (Non-Immigrant J-1)

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 creates the required Form DS-2019 in SEVIS in order for the student to arrive in the United States with a J-1 exchange visitor's visa status. SEVIS reporting is managed by the OISS while orientation and programming is a joint effort of both OEA and OISS.

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

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

TUITION, FEES, AND FINANCIAL AID

Tuition and Fees

Office: Student Account Services (formerly Bursar Operations)

Location: Lucas Administrative Center 235

Telephone: 859-572-5204 **Fax:** 859-572-6087

Email Address: studentaccounts@nku.edu

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

Director: Kim Graboskey

Other Key Personnel:

Associate Director: Jim Woll

Assistant Director: Brandon Billiter

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

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

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

Fees

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

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

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

Account Statements

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

Payment Methods

1. Online via MyNKU – Biller Direct Tab
 - E-Check Payments (No Fee) and Credit Cards (VISA, Master Card, AMEX and Discover) Accepted (2.5% service fee)
2. By Mail – Student Account Services, AC 235 Nunn Drive, Highland Heights, KY 41099.
3. In Person – The office is located on the second floor of the Lucas Administrative Center.

Nonpayment Policy

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

1. Full payment by cash, check, credit card, or financial aid by NKU's established tuition due date (typically the first day of classes).
-- 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 is due 30 days after the start of the semester, bringing the total paid to 75 percent of the bill.
3. The balance is due 60 days after the initial due date. Accounts must be paid in full by the close of business on that day.

Financial Warning and Cancellation of Classes for

Nonpayment

Students enrolled in the NKU installment plan who do not pay 50 percent of their total charges within the first two weeks of the semester will be placed on "financial warning." Students placed on financial warning will be given 10 business days to bring their account into compliance. Those who remain on financial warning after 10 business days will have their classes canceled for nonpayment. Students who have their classes canceled as a result of nonpayment are still responsible for 50 percent of their original bill.

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

Past Due Notices

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

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. Any accounts sent to collection are assessed a collection fee on their full unpaid balance and are reported as a delinquent account to the credit bureaus. If the account remains unpaid at the collection agency, the account will be sent to the Kentucky Department of Revenue for collection.

Refunds

7-Day Hold

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

Refund Calculations

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

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

To determine refund eligibility, calculate:

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

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

Direct Deposit

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

1098-T

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

Donovan Scholars

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

Corporate Tuition Payment for Employed Students

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

Tuition Rates for Dually-Enrolled Students

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

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

Financial Audit

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

Financial Assistance

Approved financial assistance is applied directly to a student's account. If the assistance is not showing, the student should contact the Office of Student Financial Assistance at 859-572-5143 or toll free at 888-225-4499.

Students receiving financial aid may obtain a temporary deferment of their financial obligation if the financial aid process is complete (that is, estimated aid is viewable on the student's account and covers the entire account balance owed). At the time financial aid checks are distributed, the Student Account Services office will deduct any balance due the university. Students who fail to have their financial aid in estimate status and viewable on the student's myNKU account when the semester begins

will be responsible for paying their bill and will later receive their financial aid as a reimbursement.

Third-Party Billing

In order to have tuition and fees paid by a third party, a written authorization must be received by the Student Account Services office and approved prior to the tuition due date each semester. If authorization is not received, the student will be required to make the full payment by the due date. **Note:** Changes to the student's schedule may affect the authorized payment amount. A student should contact the Student Account Services office immediately if changes to the schedule affect the tuition and fees charged.

Veterans' Benefits

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

Official Withdrawal from the University

When a student determines that he or she will NOT be attending NKU for the upcoming semester, the student must drop all of his or her classes through the myNKU portal adhering to all academic calendar deadlines. It is recommended that the student complete the Formal Withdrawal Request form on the registrar's office website (http://registrar.nku.edu/content/dam/registrar/docs/Withdrawal_Form.pdf).

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

Financial Aid and Scholarships

Location: Lucas Administrative Center 416

Telephone: 859-572-5143 **Fax:** 859-572-6997

Email Address: ofa@nku.edu

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

Director: Leah Stewart

Other Key Personnel:

Associate Director: Penny Asalon

Assistant Director: Dyane Foltz

Freshman Scholarships

SCHOLARSHIP	GUIDELINES	AMOUNT
Distinguished Scholarship	3.75+ GPA 32+ ACT or 1400+ SAT*	Full tuition, room and board
Presidential Scholarship	3.75+ GPA 30+ ACT or 1330+ SAT*	Full tuition
Governor's Scholar Award	3.0+ GPA 24+ ACT or 1090+ SAT* Kentucky Governor's Scholar Program participant	In-state tuition
Excellence Scholarship	3.5+ GPA 29+ ACT or 1290+ SAT*	\$7,000 tuition
	3.25+ GPA 27+ ACT or 1210+ SAT*	\$5,000 tuition
	3.25+ GPA 26+ ACT or 1170+ SAT*	\$3,000 tuition
Commonwealth Excellence Scholarship	3.25+ GPA 25+ ACT or 1130+ SAT*	\$2,000 tuition

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

Financial Aid Application (FAFSA)

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

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

FAFSA Priority Dates

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

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

Scholarships

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

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

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

Educational Diversity Scholarship (Scholarship application required, details available online).	2.75+ GPA Must show evidence of academic achievement	Full tuition
Achiever's Award **	3.0+ GPA 23+ ACT or 1050+ SAT*	Up to \$500 tuition (in-state residents) Up to \$3,000 tuition (out-of-state residents)
William H. Greaves Scholarship and Center for Integrative and Natural Science and Mathematics (CINSAM) Scholarship	Class rank top 25% 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	William H. Greaves: In-state tuition and a \$600 book award CINSAM: Varies
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 tuition
SOAR Scholarship***	23+ ACT or 540+ SAT* mathematics score Kentucky and Cincinnati residents who can demonstrate financial need declared major in biological sciences, chemistry, computer information technology, computer science, data science, environmental science, geology, mathematics, physics, statistics, pre-engineering, or engineering technology programs	Varies

*Combined critical reading and mathematics SAT scores.

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

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

Financial Aid Eligibility

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

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

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

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

Types of Financial Aid

There are various types of financial aid that can be viewed on the financial aid website. For additional information concerning the financial aid process, prospective and current students should contact the Office of Student Financial Assistance or visit the website (<http://financialaid.nku.edu>). The chart below lists various types of aid that are in addition to the scholarship opportunities listed elsewhere in this section.

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

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 adequately fund any commitments 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 email address or via U.S. mail.

TYPE OF FINANCIAL AID	ANNUAL AMOUNT (Based on full time enrollment)	REPAYMENT REQUIRED?	REQUIRED APPLICATION PRIORITY DEADLINE SUPPLEMENTAL INFORMATION	REMARKS
Federal Pell Grant	Up to \$5,730	NO	FAFSA February 1	A federally-funded gift aid program for eligible students with financial need as determined by the FAFSA.
Federal Supplemental Educational Opportunity Grant	Up to \$2,000	NO	FAFSA February 1	Eligible students must be Pell Grant eligible, with exceptional financial need as determined by the FAFSA.
KHEAA CAP Grant	Up to \$1,900	NO	FAFSA February 1	Eligible students must be Kentucky residents and must be Pell Grant eligible.
Kentucky Educational Excellence Scholarship (KEES)	Varies depending upon high school GPA and ACT or SAT scores	NO	Information submitted by high school and university	Eligible students must be Kentucky residents who graduated from Kentucky high schools and are attending postsecondary schools in Kentucky.
Regional Tuition Award (RTA) *Beginning Fall 2014	Difference in amount between Non-Resident and Metro undergraduate tuition rates	NO	To qualify, students must be admitted to the university as a full-time, undergraduate, degree-seeking student and reside in Indiana, Ohio or Tennessee.	Current students enrolled at NKU that meet these requirements will be grandfathered beginning Fall 2014.
Strive Northern Kentucky University Promise Program	Varies, up to cost of attendance	NO	FAFSA February 1	A need-based grant program targeted to students who are graduates of Holmes, Holy Cross, Newport, Covington Latin or Newport Central Catholic high schools. Students must be full time, Pell Grant eligible and must maintain a 2.5 GPA.
Northern Difference Grant	Varies, up to cost of attendance	NO	FAFSA February 1	A need-based grant program created for Kentucky residents whose family income falls at or below 150 percent of the national poverty level. Students must be full time, Pell Grant eligible and must maintain a 2.5 GPA.
In-State Freshman Grant	Up to \$1,500	NO	FAFSA February 1	A need-based grant program for first-time freshmen who are charged the resident tuition rate. Students must be Pell Grant eligible.
In-State Sophomore Grant	Up to \$1,500	NO	FAFSA February 1	A need-based grant program for first-time sophomores who are charged the resident tuition rate. Students must be Pell Grant eligible.
Out-of-State Freshman Grant	Up to \$1,500	NO	FAFSA February 1	A need-based grant program for first-time freshmen who are charged the metro, Indiana or nonresident tuition rates. Students must be Pell Grant eligible.
Out-of-State Sophomore Grant	Up to \$1,500	NO	FAFSA February 1	A need-based grant program for first-time sophomores who are charged the metro, Indiana or non-resident tuition rates. Students must be Pell Grant eligible.
Kentucky War Veterans' Dependents Scholarship	Full tuition	NO	The Kentucky Department for Veterans' Affairs Application	To determine eligibility, contact the Kentucky Department for Veterans Affairs at 502-595-4447.
Federal College Work-Study Employment	Varies with needs/hours worked	NO	FAFSA February 1	Employment under this federally funded program is restricted to students with demonstrated financial

				need. Undergraduate and graduate students who are eligible for consideration for FWS must be enrolled for at least six semester credit hours.
Institutional Work-Study Employment	Varies with hours worked	NO	None	An NKU program designed for students who want to work on campus but who do not qualify for the federal employment program.
Federal Perkins Loan	Up to \$3,000	YES	FAFSA February 1	This is a campus-based loan with a five percent interest rate. Students must have junior or senior status.
Federal Direct Subsidized Loan	Up to \$3,500 for the first year of undergraduate study; \$4,500 for the second year of study; \$5,500 for the third and fourth years of study	YES	FAFSA February 1 Master Promissory Note & Entrance Counseling	Payment deferred until six months after student graduates or is no longer enrolled in at least six semester credit hours. Interest is not charged while student is enrolled in at least six semester credit hours.
Federal Direct Unsubsidized Loan	Same as subsidized, plus dependent students may borrow an additional \$2,000 per academic year and independent students may borrow an additional amount up to \$6,000 for the first or second year of undergraduate study, \$7,000 for the third or fourth year of undergraduate study	YES	FAFSA February 1 Master Promissory Note & Entrance Counseling	Payment deferred until six months after student graduates or is no longer enrolled in at least six semester credit hours. Interest is charged during all periods.
Federal Direct PLUS Loan	Up to the cost of attendance minus other financial aid	YES	FAFSA February 1 PLUS loan authorization form Credit approval PLUS loan Master Promissory Note Parent borrower must meet all general eligibility requirements	Parent of dependent students may borrow this loan and is responsible for repayment. Repayment generally begins immediately, unless option for in-school deferment is selected.

Financial Support Options Specifically for Transfer Students

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

KCTCS Scholars Award

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

1. Be a legal Kentucky resident.
2. Meet the deadline for the scholarship application. The website (<http://transfer.nku.edu>) provides access to the scholarship application and gives the deadline date for application.
3. Have completed a minimum of 36 semester credit hours at a KCTCS school.
4. Have attended a KCTCS institution as the last school attended.
5. Have earned a minimum 3.0 cumulative GPA.
6. Be eligible for regular admission to an undergraduate bachelor's degree program at NKU with no further remediation required.
7. Be academically eligible to return to the prior institution.
8. Remain in good academic standing at NKU as defined by the satisfactory academic progress guidelines used for financial aid eligibility.
9. Not have been enrolled previously as a degree-seeking student at NKU.
10. Transfer into 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, Southern State Community College and Clark State Community College. This agreement extends reciprocity tuition rates to residents of certain Ohio counties who meet the program/residency requirements. To qualify, students must:

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

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

Nonresident Transfer Award

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

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

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

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

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

Additional Scholarship Opportunities for Transfer Students

Other scholarship opportunities for transfer students are available online (<http://financialaid.nku.edu/scholarships.html>).

Student Employment

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

NKU administers the federal work-study program and an institutional student employment program. NKU administers these programs in accordance with the laws, federal and state regulations, and instructions

issued by or on behalf of the Department of Education as well as its own institutional policies. The federal work-study program provides funds for students with financial need as determined by the FAFSA. These funds are earned through part-time employment and assist in financing the cost of postsecondary education.

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

Cost of Attendance

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

Satisfactory Academic Progress

This policy will be used to determine eligibility for aid for the 2014-2015 academic year. This policy is current as of the date of this publication and could be subject to change due to federal, state or institutional adjustments. Students should always review the policy on our website (<http://financialaid.nku.edu>) or contact our office for the most current information.

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

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

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

The academic progress of students will be reviewed for

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

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

Qualitative Progress (GPA)

1. Students whose academic standing status is academic warning, academic probation, or suspension are not considered to be meeting the qualitative (GPA) standards of academic progress.
2. The following chart summarizes the minimum GPA required to be considered to be in good academic standing:

DEGREE PROGRAM	MINIMUM ACCEPTABLE CUMULATIVE GPA
Undergraduate student with 0-15 quality hours	1.66
Undergraduate students	2.0

Quantitative Progress (Pace of Completion)

Students must earn at least 67 percent of the total number of cumulative credit hours they have attempted. This includes **all** NKU coursework, remedial courses and transfer credits. Examples are below:

Student #1: Total Official Attempted Credit Hours: 84
Total Official Earned Credit Hours: 39
 $39/84 = 46\%$

This student has failed the quantitative (pace of completion) standard.

Student #2: Total Official Attempted Credit Hours: 54
Total Official Earned Credit Hours: 42
 $42/54 = 77\%$

This student has passed the quantitative (pace of completion) standard.

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

Maximum Time Frame for Degree Completion

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

Important Notes

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

Course Repetitions

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

Re-establishing Financial Aid Eligibility

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

Appeals

1. If a student failed to meet the academic progress standards due to his/her injury or illness, the death of a relative, or other special circumstances, he/she may submit a written appeal if the student's extraordinary circumstances have been resolved. Students should not and may not base their appeal on their need for financial aid or their lack of knowledge that their financial aid was in jeopardy.
2. Students may appeal once per academic year.
3. The appeal decision by the committee is final.
4. If it is mathematically impossible for a student to achieve a cumulative GPA of at least 1.8 after one semester, a student's appeal will automatically be denied.
 - a. For undergraduates, this determination will be made based on the assumption of full-time enrollment (12 hours) and a 4.0 term GPA for one semester.
5. If it is mathematically impossible for a student to achieve a cumulative pace of completion of at least 67 percent after one academic year, the student's appeal cannot be approved and will automatically be denied.
 - a. This determination will be made based on the assumption of full-time enrollment (12 hours) for both fall and spring semester (total of 24 hours).
6. The Student Financial Aid Appeals Committee will review appeal requests and may grant approval for the following reasons:

- a. The death of a relative of the student.
 - b. The personal injury or illness of the student.
 - c. Special circumstances as determined by the institution.
7. The committee meets twice a month during June, July, and August and at least once a month during September, December, and January.
8. Appeals must include:
- a. A letter written by the student that clearly states the extraordinary circumstances that may have adversely impacted the student's academic performance. The appeal must indicate why the student failed to make satisfactory academic progress and what has changed that will allow the student to make satisfactory progress at the next evaluation. Supporting documentation is also required. Appeals submitted without supporting documentation will not be accepted and will not be submitted to the appeals committee.
 - b. Documentation to support all extenuating and/or unusual circumstance detailed in the letter. Note that documentation will not be returned; students must keep a copy for their records. NKU will not contact anyone to obtain information for an appeal.
 - c. Examples of supporting documentation include copies of obituaries, documentation issued by a physician or hospital, police records, or other documentation provided by a third party professional.
 - d. A student may submit a statement from his/her academic advisor, dean, or department chair, if the student feels it is appropriate.
 - e. If a student is appealing due to maximum timeframe, the student must include the Maximum Timeframe Academic Plan Worksheet in addition to supporting documentation.
 - f. Appeals may be approved or denied. Students will be notified of the results of their appeal. If a student's appeal is approved, the student will be placed on financial aid probation and will be required to follow an academic plan for the academic year (two semesters) based on the following:
 1. If an undergraduate student failed to make academic progress because he/she did not meet the minimum GPA, the student must have a cumulative GPA of 2.0 after completing two semesters. A student who does not have a cumulative GPA of at least 1.8 at the end of the first semester of financial aid probation cannot receive aid for the second semester.
 2. If a student failed to make academic progress because he/she did not meet the quantitative (pace of completion) standard, the student will be required to earn 67 percent of their hours attempted for each of the two semesters. If a student does not earn 67 percent of the credit hours attempted during the first semester of financial aid probation, he/she cannot receive aid for the second semester. **Percentages are not rounded up.**
 3. If a student failed to make academic progress because he/she is exceeding the maximum timeframe, the student must complete the number of hours required per semester, as indicated on the Maximum Timeframe Academic Plan worksheet. If the student fails to meet the academic plan as outlined, the student will no longer be eligible to receive federal financial aid. Students must meet the academic plan requirements each semester in order to continue to be eligible to receive federal aid.
 4. A student may not submit an appeal if he/she fails to meet the requirements of the academic plan.
 5. Appeals must be received and reviewed before or during the term for which the student is requesting aid. Any appeal received after the last day of the term will be considered for the

next term for which the student enrolls. Appeal decisions are not retroactive.

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

Summer Sessions

1. Financial aid recipients have a conditional period of the summer session after the spring semester. This allows students a chance to bring up their GPA or to meet the quantitative (pace of completion) progress standard. If a student previously not meeting the academic progress standards meets the academic progress standards after completing courses during the summer session, the student's financial aid may be reinstated. Students should contact the Office of Student Financial Assistance to have his/her aid eligibility re-evaluated.
2. If a student submits an appeal for the summer session and the appeal is approved, the student must then be meeting the standards of academic progress at the conclusion of the summer session in order to be eligible for aid for future years. Students who appeal for the summer session are not able to be placed on an academic plan.

How Withdrawing from Classes Affects Financial Aid

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

Nonattendance Policy

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

Return of Funds Due to Withdrawal

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

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 Student Account Services office will automatically use all or a portion of the student's "institutional refund" as

payment toward the amount that must be returned to the Title IV programs. The student may also be required to repay a portion of the aid funds that were directly disbursed to him or her in the form of a residual check. The student will be notified and billed for any grant funds that must be repaid immediately.

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

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

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

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

verification form that can be completed by the professor verifying attendance. Late verification of attendance is not accepted.

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

Return of Funds for Modules (R2T4)

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

ACADEMIC PROGRAM OPPORTUNITIES

Academic Common Market

The Academic Common Market is a cooperative tuition-reduction agreement among 16 Southern Regional Education Board states. The program allows Kentucky students who are interested in an academic program not offered at a public/state-funded university in Kentucky to pay in-state tuition at participating public/state-funded colleges and universities. The list of programs included in the ACM is revised periodically to reflect the changing needs and offerings of participating states. The 16 states that participate in the ACM are Alabama, Arkansas, Delaware, Florida (graduate-level only), Georgia, Kentucky, Louisiana, Maryland, Mississippi, 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.

Center for Environmental Education

Location: 15 Clearview Drive (co-located with the NKU Center for Environmental Restoration)

Telephone: 859-572-1545 **Fax:** 859-572-6096

Email Address: enved@nku.edu

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

The Center for Environmental Education provides instructional training, resources, and programs for environmental educators in P-12 schools, and the community. NKU undergraduate students have opportunities to be involved with the work of the CEE via undergraduate research opportunities. The CEE makes available instructional materials, as well as field study sites, that promote hands on learning and experiences. The CEE is managed by the Center for Integrative Natural Science and Mathematics (CINSAM). The CEE is co-located with the NKU Center for Environmental Restoration.

Cooperative Education

Office: Career Services

Location: University Center 225

Telephone: 859-572-5680 **Fax:** 859-572-6996

Email Address: careerservices@nku.edu

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

Director: Bill Froude

Co-op Manager: Amanda Meeker

Cooperative education is an academic option that incorporates relevant work experience into a student's program of study. This learning experience involves gainful employment, and academic credit is earned and applied toward associate and bachelor's degrees. The employment experience is planned, supervised, and coordinated by employers, faculty coordinators, and career services' staff. Students register for CEP 300 in order to receive cooperative education credit. For instructions, visit the website (<http://careerservices.nku.edu/students/coopinternships.html>).

Requirements

To be admitted to the cooperative education program, a student must have an overall GPA of at least 2.20 based on a 4.00 scale. This GPA must be maintained throughout the student's cooperative education experience. To qualify as candidates for the program, associate degree stu-

dents must have completed 15 semester hours; bachelor's degree students must have completed 30 semester hours.

Academic Credit

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

Tuition

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

First-Year Programs

Location: University Center 127

Telephone: 859-572-5913 **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: Leah Cook

Lecturer: Tracy Hart

Freshman Specialist in History: Suzanne DeLuca

Coordinator, Retention and Special Projects: Joel Robinson

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

UNV 101: Orientation to College and Beyond

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

UNV 101 is a graded, academic, three-credit-hour course limited to freshmen. It counts as an elective that may be applied toward graduation. UNV 101 is taught by a specially trained group of instructors who come

from various areas and disciplines across campus. Some sections may be team-taught by two instructors or be part of a learning community. Students may enroll for a UNV 101 course during registration. No special permission is needed.

Alpha Lambda Delta

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

Learning Communities

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

Freshman Specialists

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

The Book Connection

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

UNV 301: University 101 Teaching Internship

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

UNV 301 is a graded, three-credit-hour course that is limited to students who have earned 60 or more credit hours and have a GPA of least 3.0. Enrollment in the course is selective and requires instructor consent. The course counts as an elective that may be applied toward graduation. UNV 301 is taught by a seasoned UNV 101 instructor who guides the mentorship process.

Grant County Center

Location: 390 North Main, Williamstown, KY 41094

Telephone: 859-824-3600 **Fax:** 859-824-3625

Email Address: grantcounty@nku.edu

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

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

Greater Cincinnati Consortium of Colleges and Universities

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

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

Policies

1. NKU students may enroll in courses at a GCCCU member institution providing that the course(s) is not offered at NKU for one academic year. Exception: the student has officially applied for graduation with the Office of the Registrar and needs a course(s) to graduate. If the course(s) is not available at a GCCCU campus, then, and only then, students can enroll for those courses at a SOCHE school. Course availability at a consortium college or university is on a space-available basis and students are responsible for ensuring they have taken the necessary prerequisites for consortium course(s).
2. Students must be degree seeking and in good academic standing to participate in the consortium.
3. Course load policies stipulate that:
 - a. Students may enroll in no more than two courses at the consortium (non-NKU) institution in any one semester.
 - b. The student's total load is governed by NKU's course load policy.
 - c. Student enrollment at the consortium institution may not exceed one-half of total class load for any one semester, and student must be enrolled in course(s) at NKU.
4. The total number of consortium semester hours a student may take is limited to 12.
5. Students enrolling at a member institution in the summer must either:
 - a. Also be enrolled at NKU in the summer, or
 - b. Have been enrolled at NKU at least half-time during the preceding spring semester, in which case they are not required to be enrolled at NKU during the summer.
6. Tuition and fees:
 - a. Students who take courses through the consortium program pay tuition to NKU at the regular NKU tuition rate applicable to specific degree programs.
 - b. Students are required to pay course-related fees at the host institution.
7. Students must have prior approval from the vice provost to enroll in course(s) through GCCCU or SOCHE. In addition:

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

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

Member Institutions of GCCCU

Art Academy of Cincinnati
 Athenaeum of Ohio
 Chatfield College
 Cincinnati Christian University
 Cincinnati State Technical and Community College
 College of Mt. St. Joseph
 Gateway Community and Technical College
 God's Bible School and College
 Good Samaritan College of Nursing and Health Science
 Hebrew Union College-Jewish Institute of Religion
 Miami University (including Hamilton Campus and Middletown)
 Northern Kentucky University
 Thomas More College
 Union Institute and University
 University of Cincinnati (including Clermont College and Blue Ash)
 Wilmington College
 Xavier University

Member Institutions of SOCHE

The SOCHE includes several of the GCCCU institutions plus the following:

Air Force Institute of Technology
 Antioch College (including Antioch University Midwest)
 Cedarville University
 Central Michigan University
 Central State University
 Clark State Community College
 Edison Community College
 Kettering College
 Miami-Jacobs Career College
 Sinclair Community College
 Southern State Community College
 United Theological Seminary
 University of Dayton
 Urbana University
 Wilberforce University
 Wittenberg University
 Wright State University

Honors Program

Location: Honors House

Telephone: 859-572-5400 **Fax:** 859-572-6091

Email Address: honors@nku.edu

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

Interim Director: Belle Zembrodt

Other Key Personnel:

Advisor: David Kime

Recruitment & Events Coordinator: Stephanie Churchill

Administrative Specialist: Lauren McClain

Full-time faculty: Ali Godel, Kristin Hornsby, April Callis, 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 in a dynamic environment where the individual student voice is important, where all members of a class learn from one another, and where each student can locate and explore his or her personal passion in relation to a given topic. Above all else, the honors program is an environment that consistently promotes academic excellence.

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

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

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

Special opportunities for our students: The honors program encourages students to think across discipline-specific boundaries, to envision and articulate connections between disciplines that may not seem to be readily connected. The learning outcomes of honors courses include demonstration of superior communication skills, both in writing and speaking, analysis, synthesis, and critical thinking. The capstone project is the exit requirement for the honors program and affords students the opportunity to engage in independent research or creative work, an undertaking particularly valued by potential employers, graduate schools, and professional schools and programs. Similarly, the designation University Honors Scholar on the diploma and transcript is a distinction that provides students with a competitive edge.

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

Special admission requirements: NKU's honors program is open to incoming freshmen, continuing NKU students, and transfer students.

Prospective students should apply by visiting the honors website (<http://honors.nku.edu>) and completing the honors application form.

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

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

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

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

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

ROTC

ROTC Air Force

Telephone: 513-556-2237

Email: wellenjn@ucmail.uc.edu

Web Address: www.uc.edu/afrotc.html

Contact at NKU: Justin B. Wellen

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

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

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

Students interested in additional information may visit the national website (<http://www.afrotc.com>) or the local website (www.uc.edu/afrotc.html), or call 513-556-2237.

ROTC Army

Location: Founders Hall 200 and 206

Telephone: 513-745-1066 or 513-745-3076

Email: roachw2@nku.edu

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

Contact at NKU: William Roach

Faculty: Lt. Col. Kevin Wissel, Steve Harmon, Capt. Tim Bill, Capt. Brandon Andrews, 1st Lt. William Roach, Master Sgt. Leonard Kacuba, Sgt. 1st Class Todd Barger, Staff Sgt. Justine Winger

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

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

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

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

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

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

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

Location: Founders Hall 536

Telephone: 859-572-1448 **Fax:** 859-572-1445

Email Address: engage@nku.edu

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

Executive Director: Mark Neikirk

Coordinator: Collette Thompson

For students who are looking for a chance to get outside of the classroom and learn from the real world, NKU opens doors they might not have imagined possible. For those who are looking to engage in lively discussions of current events and public policy, NKU welcomes their voices. The Scripps Howard Center for Civic Engagement coordinates and encourages learning opportunities in both of these crucial areas: service and citizenship. The center coordinates several NKU programs: the Mayerson Student Philanthropy Project; the Six@Six lecture Series, the Newspaper Readership Program; the Northern Kentucky Forum; Project Hope: The 505 Initiative; Spring into Service; and Democracy Square Live dialogues.

Service

NKU students have travelled to California's agricultural valleys to learn about migrant workers and to New Orleans' Ninth Ward to learn about disaster relief. Closer to home, they have built web pages for small nonprofit agencies, designed exhibits for community museums, chipped in after tornadoes for disaster relief, and partnered with inner-city residents to address community needs. This marriage of curriculum and community service is called service learning. NKU offers about 50 service-learning classes each semester. Students will find service-learning classes across all majors. The Scripps Howard Center also works with academic departments to support internships, alternative spring breaks, applied research, and independent studies to provide additional routes for connecting academic experiences to community service.

Citizenship

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

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

Student Research and Creative Opportunities

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

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

Study Abroad

Office of Education Abroad

Location: University Center 330

Telephone: 859-572-6908 **Fax:** 859-572-6650

Email Address: studyabroad@nku.edu

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

Director: François LeRoy

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

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

Student and faculty exchanges are offered with the following institutions:

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

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

All interested students should stop by the Office of Education Abroad to meet with a specialist to discuss these and other opportunities available to enrich their education. They may also call 859-572-6908 or visit the website. (<http://studyabroad.nku.edu>).

UNIVERSITY POLICIES AND PROCEDURES

Academic Appeals – Course Related

When a student believes that an instructor has violated his or her rights in the classroom – for example, failure to follow stated grading policy as outlined in the course syllabus, discrimination in evaluating individual achievement, illegal discrimination or harassment – the student should follow the procedures listed in Code of Student Rights and Responsibilities, section 5.G

(<http://deanofstudents.nku.edu/policies/student-rights.html>).

Academic Renewal

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

Academic Renewal Policies

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

records outside of this catalog. These students are encouraged to contact the Office of the Registrar for clarification.

Academic Requirements and Regulations Updates

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

Academic Standing

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

Freshman	0-29 credit hours
Sophomore	30-59 credit hours
Junior	60-89 credit hours
Senior	90 or more credit hours
2. **Good Standing:** A student is in good standing when he or she has at least 16 credit hours (including all courses numbered 100 and above) and a cumulative GPA that meets or exceeds 2.00 for all courses attempted at the 100 level and above. A student with 0-15 credit hours is in good standing with a cumulative GPA that meets or exceeds 1.66 for all courses attempted at the 100 level and above.

Academic Warning

1. The first time a student's overall GPA drops below 2.00 (or below 1.66 if the student has fewer than 16 semester credit hours), the student is placed on academic warning and will receive a letter indicating the student's status and the consequences of being on academic warning. 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.
2. Students who are placed on academic warning will not be subject to probation before completion of 30 quality hours. After completion of 30 quality hours, one of two things will happen for any student on academic warning the previous semester:
 - a. If the cumulative GPA has increased to at least 2.00, the student will return to good standing.
 - b. If the cumulative GPA has not increased to at least 2.00, the student will be placed on probation.

Academic Probation

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

Academic Suspension

First Suspension

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

Second Suspension

1. A student suspended a second time is required to remain out of school for at least two full semesters (counting only spring and fall).
2. The student will not be reinstated to NKU except in unusual circumstances and then only if the following conditions are met:
 - a. The student meets with the appropriate college dean (or dean's designee) or the director of Norse Advising if he or she lacks a declared major and obtains a positive recommendation for reinstatement.
 - b. The student submits an appeal letter to the *ad hoc* group described in (c) below.
 - c. An *ad hoc* group, consisting of the dean (or dean's designee) from each of the undergraduate colleges plus the director of Norse Advising, approves the student's request for readmission.

- d. Steps (a) through (c) are completed by August 1 for fall semester, December 1 for spring semester, and May 1 for summer sessions.
3. If reinstatement is approved, the student must then complete and submit an application for readmission to the university.

ADA Policy

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

Adding a Course

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

Alcohol and Drug Abuse Policy

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

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

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

The following misconduct is subject to disciplinary action:

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

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

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

Attendance

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

Auditing a Course

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

Catalog of Record

1. A student's catalog of record is the source for all policies and program requirements associated with the student's degree requirements (for a list of degree requirements, see section on *Requirements for a Bachelor's Degree* or *Requirements for an Associate Degree*).
 - a. The most recent catalog in existence determines all other university policies and procedures.
 - b. A student's catalog of record does not impact course prerequisites or co-requisites. What is in effect when the student enrolls in the course determines the required prerequisites and co-requisites.
2. The catalog in effect when a student enters the university (enrolls in classes) as a degree-seeking student is the student's catalog of record.
 - a. If a student is not enrolled for four or more academic years, the student will be required to follow all institutional and program requirements in effect at the time of re-entry to the university.
3. A student may elect to change his/her catalog of record to a catalog issued at a later date. The student must then satisfy ALL requirements for the desired degree under the catalog selected.
4. To follow a later catalog, the student must make his or her intentions known by writing to the registrar's office (Lucas Administrative Center 301).

5. EXCEPTION: Transfer policies relative to GPA and course equivalencies will not change even if the student elects to follow a later catalog.
6. Except in unusual circumstances, the requirements of one catalog may be followed for no more than eight consecutive academic years from the time the student first enrolled. After eight consecutive academic years, the student's catalog of record will be the catalog following the one that just expired unless the student designates in writing to the registrar's office (Lucas Administrative Center 301) a more recent catalog.
7. Students should consult their academic advisors for questions regarding their catalog of record.
8. Appeals to this policy are handled by the academic dean of the college housing the student's major.

Course Load Policy

It is normal that, for one 3-credit hour course, students should expect to spend five to six hours on course-related work outside of class time. This means that students carrying 15 credit hours may need to spend a minimum of 25 to 30 hours per week 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 credit hours.
2. The maximum course load in fall or spring semester is 18 credit hours (including audit, residence, correspondence, off-campus, and consortium courses). EXCEPTIONS:
 - a. A student who has attained a GPA of 3.00 or higher for a total of at least 15 credit hours for the preceding semester may be permitted by his or her dean to carry up to 21 credit hours.
 - b. If a student's curriculum specifies that a student should take more than 18 credits in a given semester, the student should follow the curriculum.
3. A student may take only one intersession course and one winter term course each year.
4. A student may take up to 6 credit hours during each of the five-week summer sessions for a total of 12 credit hours. The maximum course load for all summer sessions is 15 credit hours.
5. A student on academic probation may not take more than 13 credit hours in a fall or spring semester, no more than six credit hours total in summer, and no more than one class in any one summer or winter session. Exceptions to this policy apply to students enrolled in the PACE program.
6. A student with particular problems concerning course load should see the dean (or designee) of the college that houses his or her major.

Course Numbers

Course numbers help students to know which courses are most appropriate for them. Here is 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 a bachelor's degree should declare an academic major by the time they reach 30 earned credit hours, but not later than 40 hours. Transfer students entering with more than 40 hours credit will be required to declare an academic major by the end of their first semester of enrollment.
4. Students seeking an associate degree should declare a major by the time they complete 20 earned credit hours. Transfer students entering with more than 20 hours credit will be required to declare an academic major by the end of their first semester of enrollment.
5. Students **must** submit a declaration/change of major request through the online form in the myNKU portal any time they elect to change their program. It is a student's responsibility to submit this online form, and once submitted, it will be routed electronically to the appropriate department(s) and the registrar's office for approval. Failure to submit this form may affect the student's graduation plans.

Diplomas

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

Final Exams

All classes will meet during the officially scheduled time for the final exam as published on the registrar's website. During the scheduled exam time, the faculty member will either administer a final exam or, if an exam is not warranted, provide some other meaningful course-related experience.

A take-home final exam does not eliminate the need to use the final exam time to either administer an in-class exam or provide another meaningful course-related experience.

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

Dropping a Course

Dropping a Course – Student Initiated

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

Removal from a Course – University Initiated

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

Four-Year Graduation Plans

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

Full-time Status

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

Grading Policies

Grading Scale

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

Other grading options include the following:

- I* Assigned when 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 catalog section 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 online (http://registrar.nku.edu/content/dam/registrar/docs/Pass_Fail_Option_Form.pdf)
 - b. The form can be completed at the time of registration but not later than the last day to register for a class for that semester/term as listed in the appropriate online academic calendar.
 - c. The choice to receive a traditional letter grade or a pass/fail grade cannot be changed after the last day to register for a course except by withdrawal or by repeating the course.
 - d. A student may not repeat a course on a pass/fail basis in order to replace a previously earned letter grade of *A* through *F*.
 - e. The student must be a bachelor's student who has attained junior standing (having earned 60 credit hours or more).
 - f. Courses taken pass/fail must be elective in nature and cannot be used to fulfill specific general education, major, minor, or focus requirements.
 - g. Pass/fail courses may be applied toward 300 level and above course requirements.
 - h. No more than 12 credit hours toward graduation may be completed through the student-initiated pass/fail.
 - i. Only the grade of *C*- or above will be considered passing when courses are taken under the pass/fail option; the grades of *D* and *F* will be recorded as failing grades.
 - j. The grade of *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 focus after having taken a course under the student-initiated pass/fail option, any discussion regarding acceptance of the course for major, minor, or requirements will be made on an individual basis by the appropriate department chair. If needed, and with the student's permission, the in-

structor's record of the original letter focus 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 three credits and the student earns a grade of *B+*, then multiply three times 3.333 to get 9.999. This yields the points for that course.
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 semester GPA of 4.000 at the completion of a semester's work will be appointed to the President's Honors List.
2. All undergraduate students attempting at least eight semester hours at the 100 level and above (this excludes developmental coursework) achieving a semester GPA of at least 3.600 at the completion of a semester's work will be appointed to the Dean's List.
3. All undergraduate students attempting at least three semester hours but fewer than eight semester hours at the 100 level and above (this excludes developmental coursework) achieving a semester GPA of at least 3.600 at the completion of a semester's work will be appointed to the Scholar's List.

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, six at the graduate level and six at the undergraduate level, in a single semester. Graduate credit for these courses will not be granted unless all work for the undergraduate degree is completed in the semester in which the student is enrolled for graduate credit. Credits earned in a graduate

course cannot apply toward both a bachelor's and a graduate degree. Students taking undergraduate and graduate courses concurrently will be assessed tuition at the graduate level for all courses.

Graduation Requirements

Requirements for a Bachelor's Degree

In order to receive a bachelor's degree, a student must:

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

Applying to Graduate – Bachelor's Degree

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

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

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

3. Pay the **application to graduate fee**.

- a. For fall semester graduation, apply for undergraduate degree candidacy:

By April 22	\$ 50
Between April 23 and August 8	\$ 80
Between August 9 and October 31	\$100
After October 31*	\$100

*Graduation applications submitted after October 31 will not be processed for fall semester graduation unless special approval is obtained. Those graduating with a bachelor's degree must receive permission from the associate dean of their college. Even with that approval, there is no guarantee that the application can be processed in time for fall graduation.
- b. For spring semester graduation, apply for undergraduate candidacy:

By October 22	\$ 50
Between October 23 and January 8.....	\$ 80
Between January 9 and March 30	\$100
After March 30*	\$100

*Graduation applications submitted after March 30 will not be processed for spring semester graduation unless special approval is obtained. Those graduating with a bachelor's degree must receive permission from the associate dean of their college. Even with that approval, there is no guarantee that the application can be processed in time for spring graduation.
- c. For summer semester graduation, apply for undergraduate candidacy:

By April 22	\$ 50
Between April 23 and May 31	\$ 80
Between June 1 and July 1	\$100
After July 1*	\$100

*Graduation applications submitted after July 1 will not be processed for summer semester graduation unless special approval is obtained. Those graduating with a bachelor's degree must re-

ceive permission from the associate dean of their college. Even with that approval, there is no guarantee that the application can be processed in time for summer graduation.

Graduating with Honors – Bachelor's Degree

1. In order for a student to graduate with bachelor's degree honors, the student must earn a minimum of 30 semester credits from NKU* and have an overall GPA and NKU GPA of at least 3.50, excluding developmental coursework. The level of honors will be based on the NKU GPA.
2. There are three levels of bachelor's degree honors:

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

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

Two or More Majors

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

Second Bachelor's Degree

A student who wishes to receive two bachelor's degrees may meet the requirements for them concurrently or consecutively.

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

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

Mandatory Senior Survey

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

Requirements for an Associate Degree

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

1. Complete a minimum of 60 semester credit hours, the last 20 of which must be taken from NKU*.
2. Complete developmental coursework, if required.
3. Complete the general education requirements for an associate degree.
4. Complete the requirements of the major for associate degree candidates.
5. Remove all incomplete grades by earning a grade of *A* through *F* in place of each one.
6. Earn an overall GPA of at least 2.00 (excluding developmental coursework) and a GPA of 2.00 in the major (unless the department has a higher requirement for the GPA in the major).
7. Satisfy all financial and administrative obligations to the university.
8. **Apply to graduate.**

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

Applying to Graduate – Associate Degree

To apply to graduate with an associate degree, a student must:

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

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

3. Pay the application to graduate fee.
 - a. For fall semester graduation, apply for undergraduate degree candidacy:

By April 22.....	\$ 50
Between April 23 and Aug. 8.....	\$ 80
Between August 9 and Oct. 31.....	\$100
After October 31*.....	\$100

*Graduation applications submitted after October 31 will not be processed for fall semester graduation unless special approval is obtained. Those graduating with an associate degree must receive permission from the associate dean of their college. Even with that approval, there is no guarantee that the application can be processed in time for fall graduation.

- b. For spring semester graduation, apply for undergraduate degree candidacy:

By October 22.....	\$ 50
Between October 23 and January 8.....	\$ 80
Between January 9 and March 30.....	\$100
After March 30*.....	\$100

*Graduation applications submitted after March 30 will not be processed for spring semester graduation unless special approval is obtained. Those graduating with an associate degree must receive permission from the associate dean of their college. Even with that approval, there is no guarantee that the application can be processed in time for spring graduation.

- c. For summer semester graduation, apply for undergraduate degree candidacy:

By April 22.....	\$ 50
Between April 23 and May 31.....	\$ 80
Between June 1 and July 1.....	\$100
After July 1*.....	\$100

*Graduation applications submitted after July 1 will not be processed for summer semester graduation unless special approval is obtained. Those graduating with 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 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 and the Southwestern Ohio Council for Higher Education are treated as though they were taken from NKU.

Second Associate Degree

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

1. Complete requirements for both degrees.
2. Earn a minimum of 20 semester credits from NKU* beyond requirements for the first degree.

- 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 or the Southwestern Ohio Council for Higher Education 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:

- Complete the requirements for the associate degree.
- 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 and the Southwestern Ohio Council for Higher Education are treated as though they were taken from NKU.

Graduation Ceremonies

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

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

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

- Completed all classes required for the degree.
-- OR --
- Be enrolled that fall in all classes needed to complete the degree.

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

- Completed all classes required for the degree.
-- OR --
- Be enrolled that spring in all classes needed to complete the degree.

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

Honor Code

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

The honor code specifies that an NKU student shall not:

- Engage in any conduct involving academic deceit, dishonesty, or misrepresentation.
- Give, receive, or use unauthorized or prohibited information, resources, or assistance on an examination, assignment, or graduation requirement.
- 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).

- Write, take, research, develop, prepare, or create an examination, assignment, or graduation requirement for another student, in whole or in part.
- Submit an examination, assignment, or graduation requirement written, taken, researched, developed, prepared, or created by another person, in whole or in part.
- 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.
- Prevent or interfere with the use by other students of any library, laboratory, studio, field, or other course-related resource.
- Damage or impair any library, laboratory, studio, field, or other course-related resources or another student's completed assignments.

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

Instructor and Course Evaluations

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

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

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

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

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

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

Misrepresentation of NKU Credentials

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

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 Admissions (Lucas Administrative Center 400). Additional information on regulations and approved NKU programs for AP credit may be obtained from the Office of Admissions. Examination scores range from 1 to 5. Subject areas in which a student may receive credit from NKU by earning acceptable scores are listed in the Appendix.

Credit for Prior Learning Examination (CPLE)

Currently enrolled, matriculated students can receive credit for certain approved courses by passing an examination in a subject in which they have demonstrated exceptional ability. Students may obtain an application for the examination from Testing Services (University Center 101). There is a fee for each examination attempted. These examinations are graded as pass/fail. However, some departments may have minimum passing scores. If a failing grade is earned, the course will not be posted to the student's transcript. If a passing grade is earned, the student's NKU transcript will indicate the class as a Credit for Prior Learning Examination (CPLE).

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 administers them. A grade of pass (*P*) will be assigned for the successful passage of a CLEP examination. Students are urged to consult their advisors before registering for CLEP exams. NKU requires submission of an official score report. Check the university's testing website (<http://testing.nku.edu>) for updates. Please see the Appendix for specific course equivalences. (The university reserves the right to revise these listings in accord with recommendations from the American Council on Education).

DSST Examinations

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

Financial Industry Regulatory Authority (FINRA Examinations)

NKU students who have taken and received a passing score on a Financial Industry Regulatory Authority (FINRA) examination (as determined by the Department of Accounting, Finance, and Business Law) will receive credit for an equivalent NKU course. Please see the Appendix for specific course equivalences.

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. Please see the Appendix for specific course equivalences.

Credit for Prior Learning Portfolio (CPLP)

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

Military and Department of Defense

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

American Council on Education Non-Collegiate Sponsored Instruction

Credit may be awarded based on educational programs offered by many large corporations or nonacademic institutes. Only programs approved and recommended by the American Council on Education will be considered for credit. A maximum of 32 semester hours toward a bachelor's degree and 16 semester hours toward an associate degree may be earned. Students may request evaluation of credit by sending the ACE transcript "Registry of Credit Recommendations" and appropriate course outline(s) to the registrar's office (Lucas Administrative Center 301). More information can be obtained by calling 859-572-6056.

Correspondence Courses

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

World Language Incentive Program

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

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

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

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

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

Prerequisites and Co-Requisites

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

1. The university's computerized registration system will not allow students to register for courses for which they lack the stated prerequisites and will not allow them to register for a course without registering for its co-requisite.
2. Students who believe they have met the intent of the prerequisite or have a justifiable reason for skipping the co-requisite should see the department chair of the department that offers the course. Students should provide the department chair with documentation justifying their request. If convinced that the student can succeed in the course, the department chair can issue a permit for the student to take a course without the prerequisites or co-requisites.

3. Because they are not required to present transcripts at the time of admission, non-degree students must consult the department chair for each course he or she wishes to take that has a prerequisite. Unless the student can document that he or she meets the course prerequisites, the student may not be allowed to enroll in the course. If convinced that the student can succeed in the course, the department chair can issue a permit for the student to take the course.

Privacy Rights: FERPA

The Family Educational Rights and Privacy Act affords students certain rights with respect to their education records, including:

1. The right to inspect and review the student's education records within 45 days of the day the university receives a request for access.
 - a. Students should submit to the registrar, dean, head of the academic department, or other appropriate official a written request that identifies the record(s) they wish to inspect.
 - b. The university official will make arrangements for access and notify the student of the time and place where the records may be inspected.
 - c. If the records are not maintained by the university official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading.
 - a. Students may ask the university to amend a record that they believe is inaccurate or misleading. They should write the university official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.
 - b. If the university decides not to amend the record as requested by the student, the university will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.
 - a. Disclosure 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, email address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletics teams, dates of attendance, enrollment status (including full time, part time, not enrolled, withdrawn, and date of withdrawal), degree and awards received, and the most recent previous education agency or in-

stitution attended by the student. When a student wants any part of the directory information to remain confidential, an official request form must be completed in the registrar's office (Lucas Administrative Center 301) within the first five days of class of each school term.

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

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

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

Registration Holds

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

Repeating a Course

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

- Throughout their undergraduate careers, students are permitted no more than four opportunities to repeat courses for grade replacement.
 - It is permissible to repeat an elective or required course (that is, a major, minor, or general education requirement or a course taken for general interest) exercising one of the student's four repeat opportunities.
 - 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.
 - 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.
 - 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.
 - 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.
- 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.

- 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.
- The repeat option may not be used in certain circumstances, specifically:
 - The repeat option may not be used to replace a letter grade of *A* through *F* with a *P/F* grade.
 - 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.
 - 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.
 - 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.
 - 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.

- Policy exceptions:

- 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.
- 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.

Sexual Discrimination and Sexual Misconduct

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

found in the Code of Student Rights and Responsibilities (<http://deanofstudents.nku.edu/policies/student-rights.html>)

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

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

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

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

Student Code of Conduct

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

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

Tobacco-Free Policy

Northern Kentucky University is a tobacco-free campus.

Tobacco use at all university-owned, -operated, and -leased properties is covered by this policy. Tobacco products are therefore prohibited in all

interior and exterior building space, outside ground areas, walkways and parking structures, indoor and outdoor athletic facilities, and vehicles.

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

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

Transcript Availability

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

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

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 credit should submit their official transcripts to the Office of the Registrar (Lucas Administrative Center 301). Students with AP credit should submit their official transcripts to the undergraduate admissions office (Lucas Administrative Center 401).

5. Only coursework from a regionally accredited institution or an institution with an approved articulation agreement will be considered for awarding of transfer credit.
6. Effective fall 2009, coursework completed at a regionally accredited institution with a grade of *D-* or higher will be evaluated for transfer credit.
7. Transfer work and grades:
 - a. Students who transferred to NKU between fall 2004 and summer 2009 will have the grades associated with transfer work included in their GPA calculation based on NKU's policies and procedures. Changing their catalog of record or being readmitted to the University will not change this policy: that is, grades associated with courses transferred to NKU will continue to be included in the calculation of their GPA.
 - b. For students transferring to NKU after the summer of 2009, credits may be accepted in transfer, but no grades or GPA will be transferred to NKU. In other words, transfer students with no prior NKU coursework will begin NKU with a new GPA.
8. Courses evaluated as remedial (or developmental) in content will not be considered for credit hours.
9. Students may be required to take a placement test in English, mathematics and/or reading if evidence of college readiness is not demonstrated, as prescribed by state regulation (13 KAR 2:020). Students will not receive transfer credit nor be exempt from taking developmental courses into which they are placed after initial admission to the university.
10. Students who earn transfer credit (or a combination of transfer credit and NKU credit) within one semester hour of that necessary for completion of a general education, major, or minor course requirement will be considered to have completed that requirement. This does not affect the number of transfer credits awarded.
11. A transfer student may not be awarded credit for all courses in a major. In general, it is recommended that at least half the work in a major be taken at NKU, but academic departments may set specific limits on the amount of transfer allowed for their majors. The chair of the student's major will make the final determination of the requirements for the student's major.
12. Transfer coursework for post-baccalaureate students is subject to departmental approval and is not evaluated in its entirety. Post-baccalaureate students are considered to have completed general education requirements.

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 appropriate dean and the registrar.

4. Transfer of credit must occur by the end of a student's initial year of post-bachelor's study.
5. To transfer credit, students must have an appropriate transcript sent to NKU and must also complete an application for the bachelor's degree from NKU.
6. A student who receives early admission to a graduate or professional school and who meets the above conditions is urged to discuss with his or her chair the possibility of transferring credit from the school to NKU.
7. Students are warned that in a few cases their early admission to graduate or professional school may permanently bar them from licensure in certain states. It is the responsibility of the student to ascertain requirements of the state in which he or she plans to practice.

Withdrawing from the University

Withdrawal from the University – Student Initiated

1. A student may withdraw from the university – that is, withdraw from all classes for which he or she is registered – at any time prior to the 11th week of classes.
2. To withdraw, the student should complete the NKU formal withdrawal request form available online (http://registrar.nku.edu/content/dam/registrar/docs/Withdrawal_Form.pdf).
3. The Office of the Registrar will verify that the form is complete, determine the date of withdrawal, and process the withdrawal as long as it falls within approved withdrawal-date guidelines.
4. Grades
 - a. Weeks 1 through 3 or equivalent: if a student withdraws prior to the end of the third week of the semester or its equivalent, the transcript will not reflect that the student was enrolled in the classes.
 - b. Weeks 4 through 10 or equivalent: if the student withdraws after the third week (or its equivalent) and prior to the end of the 10th week (or its equivalent), the student will receive a grade of *W* in each course for which he or she was registered.
 - c. The specific dates for sections (a) – (b) can be found in the online registration guide and the online academic calendar.
 - d. 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 Student Account Services 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
http://housing.nku.edu/content/dam/housing/docs/General/Contract_Termination_1011.pdf
(http://housing.nku.edu/content/dam/housing/docs/General/Contract_Termination_1011.pdf). A student withdrawing from the university is not eligible to live in university housing.

Withdrawal from the University – Military Purposes

1. When a student is called into active military status on an emergency basis and therefore cannot complete coursework for a given semester, the timing of the withdrawal affects whether the student receives a *W* or the earned grade in each course.
 - 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 Student Account Services.

ACADEMIC SUPPORT

Advising

NKU's Academic Advising Philosophy

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

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

Primary Goals and Objectives of Academic Advising

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

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

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

Students' Responsibilities in the Advising Process

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

- Preparing for academic advising meetings.
- Actively participating in advising discussions.
- Maintaining personal academic records.
- Developing an understanding of all graduation requirements:
 - Major/minor requirements
 - Foundation of Knowledge/general education
 - University requirements

- Learning how to access campus and online resources.
- Informing academic advisors regarding issues that may impact academic success.
- Proactively participating in planning for their post-graduate career.

Advisors' Responsibilities in the Advising Process

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

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

Advising Requirements for Registration

The proper selection of courses is important for every NKU student.

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

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

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

COLLEGE OF ARTS AND SCIENCES – 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.
- Four-year BSN, the accelerated BSN, and the RN-to-BSN programs: all students.
- Respiratory care and radiologic technology: all pre-majors and all new majors.

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

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

Norse Advising

Location: University Center 210

Telephone: 859-572-6900 **Fax:** 859-572-6989

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

Hours: Monday - Thursday, 8:15 a.m. - 6:00 p.m.; Friday 8:15 - 4:30 p.m. Other hours may be available by special appointment. Summer hours vary.

Director: Vicki Berling

Other Key Personnel:

Associate Director: Amy Pieper

Manager: Melody McMillan

Coordinator, Advising Programs: Robin Theobald

Senior Advisor: Linda Albert

Advisors: Casey Binder, Terkerah Washington, Emily Yeatts

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

Undeclared Students

Many entering students elect to be "undeclared" rather than selecting a major. Some undeclared students may want time to explore possible areas of interest, make appropriate choices about majors, and develop academic plans. Other undeclared students want advice about which programs might be best suited to their academic strengths and weak-

nesses, personal interests, and career objectives. Norse Advising helps only undeclared students whose academic interests cannot be narrowed to a specific college. Undeclared students who have focused their major choice(s) within a specific college should be advised in one of the five colleges: Arts and Sciences, Business, Education and Human Services, Health Professions, or Informatics.

University Studies Students

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

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

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

Advising Services

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

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

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

Information Technology

Location: Lucas Administrative Center

Telephone: 859-572-5272

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

NKU's Office of Information Technology is committed to supporting student success. IT provides a variety of services. All students are urged

to visit the student page of the IT website (<http://oit.nku.edu/students.html>) to learn about services and view guides that answer common IT-related questions about students' academic experience, administrative experience, student life and IT services and fees.

Antivirus Software

IT wants to ensure that all student computers are safe from viruses. Information about obtaining this free software is available online (<http://oit.nku.edu/security.html>).

Blackboard

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

Computer Labs

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

Technology Discounts for Students

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

Email/Storage

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

Technology Help

Students have two options for technology assistance. If on campus during normal business hours, students are urged to visit the Norse Tech Bar in University Center 252. Students may also contact the IT Help Desk 24/7 via phone 859-572-6911, instant message or online service request (<http://oit.nku.edu/help.html>).

NKU User Name and Password

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

Norse Tech Bar

Located in University Center 252, the Norse Tech Bar is the student destination for technology. Go there for answers to all your technology questions as well as software and hardware troubleshooting. We also offer lab computers with printers, large-format printers, comput-

er/tablet/camera checkout, and LCD screens for group work. Visit the website (<http://techbar.nku.edu>) for more information and hours, and follow us on Twitter for the latest news @nkutechbar.

Printing

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

Technology Training

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

Technology Use Policies

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

Wi-Fi

NKU has wireless access throughout the campus. Depending on the purpose when connecting through Wi-Fi, students can select from the various NKU networks as described online (<http://oit.nku.edu/network.html>).

Learning Assistance Programs

Location: University Center 170

Telephone: 859-572-5475

Email Address: laplearn@nku.edu

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

Director: Diane Williams

Program Coordinators:

Developmental Mathematics: Barbara Hamilton

Developmental Literacy: Wanda Crawford

Writing Center and Academic Tutoring: Paul Ellis

Supplemental Instruction: Karen Jenkins

Math Center and Success Skills Tutoring: Jered Wasburn-Moses

Other Key Personnel:

Academic Specialist: Mary Seifried

Academic Specialist: Mary Golden

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

Services

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

Academic Tutoring

Academic tutoring provides FREE assistance and support for students who want or need to better understand the course content and materials

of specific 100-, 200-, and some higher-level courses. To learn more about the service and how to schedule an appointment, students should consult the website (<http://lap.nku.edu/academictutoring.html>).

Math Center

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

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/writing.html>).

Success Skills Tutoring

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

Supplemental Instruction

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

Developmental Education

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

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 Laboratory	1 credit
ENGD 090: Writing Workshop	3 credits
ENGD 094 Reading and English Workshop	3 credits
RDG 091: Reading Workshop	3 credits
RDG 110: Critical Reading (Exception: RDG 110 counts toward graduation and in the GPA.)	3 credits

Developmental Mathematics Courses

MAHD 090: Basic Mathematical Skills	3 credits
MAHD 091: Elementary Geometry	3 credits
MAHD 094: Essential Algebra (Part III)	2 credits

MAHD 095: Essential Algebra	4 credits
MAHD 099: Intermediate Algebra	3 credits

International Developmental Literacy Courses

ENGI 080: Writing Lab for International Students	1 credit
ENGI 099: Writing Workshop for International Students	3 credits

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

Library

Telephone: 859-572-5457 **Fax:** 859-572-6181

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

Associate Provost for Library Services: Arne Almquist

Hours During Regular Semesters:

Monday - Thursday: 7:30 a.m. - midnight

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

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

Sunday: 12:30 p.m. - midnight

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

Other special services (<http://steelylibrary.nku.edu/services.html>) include research consultation (in person, by phone, by email, 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 obtaining materials not available at Steely Library); access to almost 200 databases, many with full-text documents; and a growing collection of electronic books. Steely Library is also a depository for many federal government publications. The Eva G. Farris Special Collections and Schlachter University Archives contain materials related to the history of NKU and materials documenting the history and heritage of the northern Kentucky region, the Ohio River valley, the Underground Railroad, Appalachian writers, and military history.

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

NKU Bookstore, Barnes & Noble

Location: University Center Plaza Level

Telephone: 859-572-5142

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

Regular Semester Hours:

Monday - Thursday 7:45 a.m. - 6:00 p.m.

Friday 7:45 a.m. - 5:00 p.m.

Saturday 11:00 a.m. - 3:00 p.m.

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

Barnes & Noble offers NKU students all the options for college textbooks. Students can buy new and used books, rent books, and obtain digital

editions of books. The bookstore also stocks the materials required for classes. Students looking for easy and convenient textbooks for the best price should visit the NKU bookstore website to place an online order. For books ordered online, the bookstore will box up the requested books and have them ready for pick up

Student Achievement Programs and Services

Location: University Center 120

Telephone: 859-572-7527 **Fax:** 859-572-5336

Email Address: studentachievement@nku.edu

Web Addresses: <http://studentachievement.nku.edu>

Director: Susan Mospens

Other Key Personnel:

Associate Director, Student Support Services: Joyce Couch

LEAP Coordinator: Gail Messmer

Financial Fitness Coordinator: Andy Espelage

Student Achievement Programs and Services opens doors to opportunity for students, helping them stay in college and graduate in a timely fashion. Three different programs offer resources, services and opportunities specific to the individual needs of each student.

Financial Fitness

Managing your money is a life skill and Financial Fitness is here to help. Work one-on-one with a financial tutor to set up a budget, make sense of your college costs, or save for an upcoming purchase. Take advantage of online tools and resources to sharpen your financial fitness. Learn about money basics, savings tips, and navigating the financial aid system in workshops with your classmates. Invite a financial fitness professional to your student group or classroom. Check us out online (<http://financialfitness.nku.edu>) or follow us on Twitter @NKUFFitness.

Learning Experience and Parenting (LEAP)

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

TRiO/Student Support Services

Student Support Services is your home on campus where Your Dreams become a Reality. You will find friendly students and staff who understand what it means to be the first in your family to attend and finish college. You will benefit from mentoring, advising, a student lounge and computer lab, and other resources and opportunities designed to support your personal, academic, and career goals. SSS is funded through a federal TRiO grant from the U. S. Department of Education. You must meet financial and parental education guidelines to be eligible. Apply online (<http://sss.nku.edu>) to be an SSS scholar.

Student Success Center

Located in the University Center, the student success center serves as a seamless and streamlined experience to equip and empower students for success. For additional information regarding the student success center

and services offered, please contact us at success@nku.edu. Services and programs available to students in the student success center include:

Career Services

University Center 225

859-572-5680

Career Services (formerly career development center) serves as a centralized resource for the NKU community: students, alumni, faculty/staff, and employers. The career services team is committed to providing excellent career-related programs, services, and resources.

First-Year Programs

University Center 127

859-572-5913

Northern Kentucky University freshman students have the opportunity to experience their first college year in an environment that promotes active learning, collaboration and personal development through these programs:

- Alpha Lambda Delta
- Book Connection
- Freshmen Specialists
- Learning Communities
- University 101: Orientation to College & Beyond

Health, Counseling and Student Wellness

University Center 440

859-572-5650

Health, Counseling and Student Wellness is dedicated to helping students achieve and maintain optimal levels of physical, mental and emotional functioning. Services are administered by highly-trained and qualified professionals.

International Education Center

University Center 405

859-572-7976

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

Learning Assistance Programs

University Center 170

859-572-5475

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

Norse Advising

University Center 210

859-572-6900

The mission of the Norse advising center is to assist undecided and university studies students to realize their potential through developmental advising practices. Advisors teach students how to navigate the higher education system while appreciating their diversity in learning, and construct educational plans that reflect their personal values, interests and abilities, to achieve their academic and life goals.

Norse Tech Bar
University Center 252

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

Student Achievement Programs and Services
University Center 120
859-572-7527

The mission of the student achievement center is to provide targeted resources and opportunities that promote student persistence and graduation.

Financial Fitness – Supports students in developing money management as a life skill.

LEAP – Collaborates with NKU students receiving KTAP funds to successfully juggle school, work and parenting.

Student Support Services – Supports SSS scholars to stay in school, do well in school and graduate.

Testing Services
University Center 101
859-572-6373

Testing Services at NKU offers testing services for placement, undergraduate admissions and certification/licensure. Testing services provides standardized and proctored exams in a convenient and secure testing environment for the NKU community and region. Testing services adheres to the National College Testing Association Professional Standards and Guidelines.

University Connect and Persist
University Center 120
859-572-6497

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

Veterans Resource Station
University Center 131
859-572-7609

This outreach service for veterans and their families helps to create a community of university personnel, students and community agencies that increase the likelihood of veterans, student service members and their family members completing their educational goals. NKU's student organization for veterans, Norse VETS, provides a social group and support structure to help veterans adjust to and become successful in civilian life. The Office of the Registrar coordinates veterans' educational resources and military benefits.

University Connect and Persist (UCAP)

Location: University Center 120

Telephone: 859-572-6497

Email Address: ucap@nku.edu

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

Director: Peg Adams

Other Key Personnel:

Associate Director: Willa Green

UCAP Coordinator: Lisa Shewmon

UCAP Coordinator: Kathleen Cox-Barker

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

Our Services

- MAP-Works is a communication and student tracking tool that helps faculty and staff understand students' NKU experience. A student survey provides key information that triggers proactive outreach, especially to students who may be at risk early in the semester. The system also serves as the university's early referral system and connects faculty and staff who are part of students' networks.
- The lending library allows students to borrow one textbook per semester. Students who borrow books meet with a UCAP coordinator for a financial and academic wellness check.
- SGA Grant is a one-time-only, last-dollar tuition grant to help students who are struggling financially to pay tuition. Students schedule an appointment with a UCAP coordinator to discuss eligibility criteria and the application process.
- Financial consultation is available to empower students to be proactive participants in solving financial issues that impact academic progress. Students learn how to align financial and academic plans, apply for scholarship opportunities, and explore tuition payment options.

STUDENT ENGAGEMENT

African American Programs and Services

Location: Student Union 309

Telephone: 859-572-6684 **Fax:** 859-572-6161

Email Address: aaps@nku.edu

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

Director: Dannie Moore

Other Key Personnel:

Assistant Director: Tracy Stokes

Department Coordinator: Yewineshet Geberegeorgis

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

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

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

All Card (ID card)

Location: Student Union 120

Telephone: 859-572-6016

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

Director: Ward Wenstrup

The All Card is the official identification card for NKU. It is imprinted with a student's photograph and an assigned ID number. The All Card allows students to be recognized as members of the university community. It also enables them to enjoy discounts and gain access to services and activities throughout campus. All Cards are automatically activated each semester for the duration of a student's attendance. New students should visit the All Card office after classes begin to receive an ID card. Lost or stolen All Cards should immediately be reported to the All Card office.

Students can add money to their All Card and enjoy convenience and savings at drink vending machines (10 percent discount), campus dining locations (six percent discount), and copiers (50 percent discount). Students can also use this account to make purchases at the NKU bookstore, snack vending machines, The Bank of Kentucky Center concessions, and the Student Union game room. The All Card can also be used to pay for computer lab printing, NKU parking permits and fines, Health, Counseling

and Student Wellness, Norse Tech Bar in University Center, and Steely Library fines. More information is available online (<http://allcard.nku.edu>).

Alumni Programs

Location: 421 Old Johns Hill Road

Telephone: 859-572-5486

Email Address: alumni@nku.edu

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

Director: Deidra Fajack

Other Key Personnel:

Director of Alumni Publications: Brent Donaldson

Assistant Director: Carol Beirne

Assistant Director of College Alumni Association: Cynthia Siddens

Program Coordinator: Gina Bath

Administrative Specialist: Jana Vaughan

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

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

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

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

Arts and Culture

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

Art Galleries

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

The Bank of Kentucky Center

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

Digitorium

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

English Literary Readings

The Department of English, often in conjunction with other campus organizations, sponsors literary events featuring readings from outstanding writers in the fields of fiction, creative nonfiction, and poetry. The literary events celebrate diverse voices from contemporary writers. Events are open to the public and the student body. For more information, contact P. Andrew Miller (millera@nku.edu), coordinator of creative writing, or Kelly Moffett (moffettk1@nku.edu), chair of events and community outreach.

Friends of Steely Library

The Friends of Steely Library maintains a regular schedule of author appearances. These include poetry and book readings by prominent authors and poets as well as other literary and art-themed events. More information is available online (<http://friendsofsteely.nku.edu>).

Haile Digital Planetarium

The planetarium, located in the Herrmann Science Center (room 409) has showings every Monday during the spring and fall semesters at noon, and on special Friday evenings and Saturdays that offer a chance to learn about topics on and off the earth. Visitors travel through time and space

to look at the formation of the moon, a future solar eclipse in the area, ancient monuments around the world, or a cave in Kentucky. The website (<http://planetarium.nku.edu>) provides program information and a calendar of events.

Museum of Anthropology

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

Music Performances

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

Reading Room Gallery

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

Sehnert Lecture Series

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

Theatrical Performances

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

Athletics

Location: The Bank of Kentucky Center 133

Telephone: 859-572-5193 **Fax:** 859-572-6089

Email Address: athletics@nku.edu

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

Director: Ken Bothof

Other Key Personnel:

Senior Associate Athletic Director for External Operations: Kurt Moeller

Associate Athletic Director for Compliance/Senior Woman Administrator: Leslie Fields

Associate Athletic Director for Operations and Event Management: Chris Haffling

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

Sports Information / Media Relations Director: Don Owen

Head Men's Baseball Coach: Todd Asalon

Head Men's Basketball Coach: Dave Bezold
 Head Women's Basketball Coach: Dawn Plitzuweit
 Head Men's & Women's Cross Country and Track and Field Coach:
 Steve Kruse
 Head Men's & Women's Golf Coach: Daryl Landrum
 Head Men's Soccer Coach: John Basalyga
 Head Women's Soccer Coach: Bob Sheehan
 Head Women's Softball Coach: Kathy Stewart
 Head Men's & Women's Tennis Coach: Brian Nester
 Head Women's Volleyball Coach: Liz Hart

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

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

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

Bus Services

NKU and 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 swipe their valid NKU All Card upon boarding and ride any route in the TANK system for free. The bus can be used to ride to class, go shopping, visit friends, or for any other purpose where the NKU rider needs transportation. The U-Pass program applies only to Kentucky and does not affect rates on the Ohio side of the river. Students can obtain additional information by calling 859-331-TANK (8265) or visiting the web (<http://www.tankbus.org/programs/college-u-pass-program.aspx>).

Campus Recreation

Location: Albright Health Center 104

Telephone: 859-572-1964 **Fax:** 859-572-6090

Email Address: crc@nku.edu

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

Director: Matthew W. Hackett

Other Key Personnel:

Assistant Director for Facilities: Jennifer Hilvert
 Assistant Director for Programs: Jill Wood
 Assistant Director for Intramural Sports: Jeremy Chipman
 Coordinator for Aquatics: Hayley North

Coordinator for Fitness: Angela Aber
 Coordinator for Intramural Sports: Ashley Crider
 Coordinator for Business Services: Justin Jett
 Membership & Business Services: Emily Tucker

Make friends. Have fun. Get involved! The campus recreation center, intramural field complex, and sand volleyball courts are the places to be for fitness, sports, and socializing day or night. Whether it's playing basketball, running on a treadmill, kicking a soccer ball or taking laps in the pool, there is something for everyone. The campus recreation center is open seven days a week so students can work out before or after class, as well as on the weekends. 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 campus rec. Students can play on intramural sports teams; relieve stress with a yoga 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 Norse Strong personal training program. The goal of the campus recreation department is to enrich the lives of the university community – students, faculty, and staff – through physical, mental, and social development. Recreation facilities and programs add greatly to the NKU experience. A valid NKU All Card/All Card is all that is needed to get started.

Campus rec memberships are included in students' tuition and fees. Full memberships for student families are available at a competitive price with spouse/partner or family packages. Please refer to the website for more information (<http://campusrec.nku.edu/>).

Employment

Be a part of the campus recreation team! Why work for Campus Recreation? To learn valuable career skills like customer service, leadership, and time management. Campus Rec provides a fun work environment, earn extra money and be part of a great team!

Facilities

Campus Recreation Center

- Fitness room - Strength training options with free weights, dumbbells, Hammer Strength and Cybex Eagle machines. Treadmills, elliptical trainers, bikes, stair steppers and cardio theatre are also located in this room.
- Main activity area - Three multi-purpose courts with high-quality wood flooring that can be used for basketball, volleyball, badminton and other activities.
- Multi-purpose room - Mirrors, hardwood floor, and speaker system. The multi-purpose room is used for Norse Fitness classes and other reserved activities.
- Indoor track - A 1/9-mile, four-lane indoor track is located above the main activity area.
- Pool - A 25 meter by 25 yard "L" shaped pool is a key area of the CRC. The pool has six swimming lanes, two one-meter diving boards and one three-meter diving board.
- Racquetball - The CRC has three racquetball courts, with two courts that can be used for Wallyball. Call 859-572-1964 to make a court reservation.
- Locker rooms - Full and half lockers are available to rent, in addition to free-day use lockers.
- Equipment issue - This is the one-stop shop for any of your equipment needs. Indoor and outdoor equipment can be checked out, including basketballs, racquetballs, rackets and goggles. T-shirts, racquetballs, and swim goggles are also available for purchase.

Outdoor Facilities

- Sand volleyball courts - Two sand volleyball courts with lights are located in the residential village so you can play all night long!
- Pavilion - Need a place to reserve for a lunch or party? Sheltered pavilion with picnic tables and restrooms. For reservations please call 859-572-6570.
- Outdoor basketball courts - Two outdoor basketball courts located in the residential village.
- Intramural field complex - Two turf sport fields with lights and a pavilion. This field can accommodate sports such as football, soccer, softball, ultimate frisbee, and more.

Programs

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

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

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

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

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

Career Services

Location: University Center 225

Telephone: 859-572-5680 **Fax:** 859-572-6996

Email Address: careerservices@nku.edu

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

Director: Bill Froude

Other Key Personnel:

Associate Director for Student Services & Programs: Shirl Short
 Associate Director for Employer Relations & Recruitment Services: Juliane Stockman
 Career Advisor and Co-op Manager: Amanda Meeker
 Career Advisor: Jennifer Richmond
 Career Advisor: Lisa McElfresh
 Data & Assessment Coordinator: Anna Sharp Elliott
 Administrative Secretary: Lisa Thams

Learn about yourself, explore career options, make career decisions, and put your plans into action. Career Services offers an integrated program of services that emphasize the developmental nature of career decision-making: self-exploration, world-of-work preparation, job-search skill development, and career-transition assistance. These services are

available to NKU students and alumni and may include career advising, resume assistance, job-search coaching, and interview preparation. Numerous online resources are provided through the Career Services website, including the Norse Recruiting job database and the FOCUS 2 career planning tool. Career Services also offers the CEP 101 career development course for students who are undecided about their major or career choice.

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

Dean of Students

Location: Student Union 301

Telephone: 859-572-5147 **Fax:** 859-572-6173

Email Address: deanstudents@nku.edu

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

Dean: Jeffrey N. Waple

Other Key Personnel:

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

The dean of students is responsible for the student development unit, which represents the core student service areas that promote learning and personal development of students. These areas provide an array of supporting 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 Programs and Services, Campus Recreation, Latino Programs and Services, New Student Orientation and Parent Programs, Student Government Association, Student Engagement (Student Organizations and Northern Kentucky Leadership Institute), Fraternity and Sorority Life, LGBTQ Programs and Services, Student Union, University Center, and University Housing. The dean of students also serves as the university's chief conduct officer, and oversees campus crises, students of concern, Title IX compliance, and university ombuds services.

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

Alcohol and Drug Abuse Policies and Educational Programs
 Classroom Disruption Guidelines
 Educational Environment Disruption Policy
 Free Expression Policy
 Late Night Event Policy
 Missing Student Notification Policy

NKU Acceptable Use Policy for Technology Resources
 NKU Communicable Disease Protocol
 Sexual Misconduct
 Speakers from Off Campus
 Student Organization Policies
 Tailgating Policy
 Tobacco Free Policy
 University Chalking Policy
 University Housing Policy
 University Posting Policy

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

If you are a student who believes you have been or are the victim of sexual harassment, including sexual assault, sexual violence or other sexual misconduct, by another university student, you may report such conduct or file a complaint under Title IX with the Title IX Coordinator. Complaints of student sexual misconduct are addressed by the Code of Student Rights and Responsibilities
 Federal and state laws prohibit the taking of retaliatory measures against any individual who files a complaint in good faith.

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

Dining Services

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

Director of Operations: Jorge Elizagaray
 Retail Director/Executive Chef: Joe Disalvio
 Residential Director: Thomas Mcgugh
 Northern Class Catering Director: Monica Kohen

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 Programs and Services

Location: Student Union 303
Telephone: 859-572-5401 **Fax:** 859-572-5874
Email Address: disability@nku.edu
Web Address: <http://disability.nku.edu>
Director: Ben Anderson
Other Key Personnel:

Assistant Director: Cindy Knox

Disability Programs and Services provides access to academic and co-curricular programs through reasonable accommodations and student-centered assistance. The office operates in compliance with federal regulations to reduce or eliminate physical, academic, and attitudinal barriers for individuals with disabilities. In addition to reasonable accommodations, the office offers various services and support programs including: consultation about disability issues for faculty, staff, and

students; individual academic advising; liaison with outside agencies; and assistive technology training. Students must be registered with Disability Programs and Services to receive reasonable academic accommodations. NKU also provides tutorial services, developmental classes, writing center, math 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
Email Address: ecc@nku.edu
Web Address: <http://earlychildhoodcenter.nku.edu>
Director: Melanie Caldwell

Throughout the calendar year, the Early Childhood Center provides high-quality childcare and preschool education for children ages one through five. 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 six through 14. The center is open Monday through Friday from 7 a.m. to 6 p.m. Each semester, the Early Childhood Center offers employment to a number of NKU students pursuing degrees in education and other human services fields.

Fraternity and Sorority Life

Location: Student Union
Telephone: 859-572-5146 **Fax:** 859-572-5774
Email Address: vanceki@nku.edu or drallea1@nku.edu
Web Addresses: www.nku.greeklife.edu; www.nkuifc.com; www.nkupanhellenic.com
Director: Kimberly Vance
Other Key Personnel:

Coordinator for Fraternity and Sorority Life: Adam Dralle

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

Panhellenic Council Sororities

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

Interfraternity Council Fraternities

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

National Panhellenic Conference Greek Letter Organizations

- Alpha Phi Alpha Fraternity, Inc.
- Kappa Alpha Psi Fraternity, Inc.
- Sigma Gamma Rho Sorority, Inc.

National Association of Latino Fraternal Organizations

Alpha Psi Lambda Fraternity

Health, Counseling, and Student Wellness

Location: University Center 440

Telephone: 859-572-5650

Fax: 859-572-5615

Email Address: hcswn@nku.edu

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

Director: Barbara J. Sween

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

Housing

Location: Norse Commons 101

Telephone: 859-572-5676 **Fax:** 859-572-6099

Email Address: housing@nku.edu

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

Director: Arnie Slaughter

Other Key Personnel:

Associate Director for Residence Life: Victoria Suttmiller

Associate Director of Housing Operations: Cathy Carson

University Housing provides housing services for single students who live on campus during the school year. Unless qualifying for an exemption, new first-year students are required to live on campus. Please visit the website for exemption categories (<http://housing.nku.edu>). Campus housing includes traditional residence hall rooms as well as apartment-style living and suite-style living. Lounge areas, information desks, computer labs, laundry rooms, vending areas, loft/study areas, and space for student recreation are available to students who live in the residential village. NKU can accommodate 1,850 students in on-campus housing. The Association of Campus Residents represents residential students to the Office of University Housing and to the Student Government Association. ACR serves as a sponsor of residential village events and reviews and recommends university policy changes.

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

LGBTQ Programs and Services

Location: Student Union 311

Telephone: 859-572-5835 **Fax:** 859-572-6161

Email Address: lgbtq@nku.edu

Web Addresses: lgbtq.nku.edu <http://lgbtq.nku.edu>

Director: Bonnie Meyer

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

Programs and Services, Latino Programs and Services, and Disability Programs and Services, and with partners across campus, we work to promote an inclusive environment for all members of the NKU community.

LGBTQ Programs and Services provides programming during October's LGBTQ History Month (including a celebration of National Coming Out Day, Ally Appreciation Day, and Asexual Awareness Week), Transgender Day of Remembrance, World AIDS Day, National Day of Silence, and Norse PRIDE Week. Social mixers and brown bag lunch conversations are coordinated monthly. The office is excited to announce that the Student Ambassador and Mentorship program will begin in the fall of 2014. Additional information is available on the office's website (<http://lgbtq.nku.edu>).

The office has strong partnerships with numerous LGBTQ community and state organizations in Kentucky and Ohio and also serves as a consultant to businesses, K-12 educators, and community organizations.

Latino Programs and Services

Location: Student Union 313, 315

Telephone: 859-572-6013 **Fax:** 859-572-1576

Email Address: latino@nku.edu

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

Director: Leo Calderon

Coordinator: Diane Maldonado

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

Lost and Found

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

Telephone: 859-572-6588

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

New Student Orientation and Parent Programs

Location: Student Union 316

Telephone: 859-572-1967 **Fax:** 859-572-1960

Email Address: orientation@nku.edu

Web Addresses: <http://orientation.nku.edu>

Director: Jenni LaMothe

Other Key Personnel:

Associate Director: Britta Gibson
 Coordinator: Jeff Iker
 Specialist: Becky Sherman

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

Parent Association

Location: Student Union 316

Telephone: 859-572-1967 **Fax:** 859-572-1960

Email Address: orientation@nku.edu

Web Addresses: http://orientation.nku.edu

Director: Jenni LaMothe

Other Key Personnel:

Associate Director: Britta Gibson
 Coordinator: Jeff Iker
 Specialist: Becky Sherman

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

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

Join NKU's Parents Association today for free, and begin receiving the monthly e-newsletter. If you would like to join, click here.
<http://orientation.nku.edu/parents.html>

Norse A!ert

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

Ombuds Services

Location: Student Union 301

Telephone: 859-572-5147 **Fax:** 859-572-6173

Email Address: deanstudents@nku.edu

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

Director: Stephen A. Meier

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

Parking

Location: Welcome Center

Telephone: 859-572-5505 **Fax:** 859-572-6902

Email Address: parkingservices@nku.edu

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

Director: Curtis Keller (interim)

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

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

Police Department

Office: University Police

Location: 419 Johns Hill Road

Telephone: 859-572-5500 **Fax:** 859-572-6991

Email Address: police@nku.edu

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

Police Chief: Jason G. Willis

Other Key Personnel:

Captain: Gerald Pizzano
 Sergeant: Matthew Bunning
 Sergeant: John Gaffin
 Sergeant: Anthony Williams
 Sergeant: Rob Yelton
 Records Manager: Kristy Webb

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

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

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

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

University Police reports statistical information monthly to the U.S. Department of Justice and the Kentucky State Police. Each report includes

the number and types of crimes committed. A report from the previous academic year is available online (<http://police.nku.edu>).

Registrar

Location: Lucas Administrative Center 301

Telephone: 859-572-5556 **Fax:** 859-572-6094

Email Address: registrar@nku.edu

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

University Registrar: Marla Herron

Other Key Personnel:

Director of Registrar Services: Angela Calhoun

Director of Transfer Services: Ava Nienaber

The registrar's office is responsible for official student and curricular records. Staff members handle course and room scheduling, degree audit, and produce the registration guide, the academic calendar, and the schedule of classes.

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

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

Email Address: studentaffairs@nku.edu

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

Vice President for Student Affairs: Peter Gitau

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

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

Student Government Association

Location: Student Union 330

Telephone: 859-572-5149 **Fax:** 859-572-6173

Email Address: sga@nku.edu

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

The Student Government Association is an elected, representative student assembly. It is the official student organization representing the collective viewpoint of the student body on university policy or action. Besides serving as a liaison to the university's administration, SGA works

to promote a more meaningful university experience. It initiates and implements student-oriented programs and awards several student scholarships and book/special-needs grants.

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

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

Student Engagement

Location: Student Union 316

Telephone: 859-572-6514 **Fax:** 859-572-5774

Email Address: studentlife@nku.edu

Web Addresses:

<http://studentlife.nku.edu>

<http://nku.orgsync.com>

Director: Betty Mulkey

Other Key Personnel:

Assistant Director for Leadership: Tiffany Mayse

Student Life Specialist for Student Organizations: Lori Smith

The Office of Student Engagement assists students as they link their academic work to real-world pursuits. NKU students can learn, practice, and hone their leadership skills by taking advantage of the Northern Kentucky Leadership Institute and the more than 200 student organizations available at the university. Students can connect with other students who share similar interests, spirituality, or political causes. Students who get involved find better jobs, earn better grades, and are more likely to graduate. Moreover, they are more satisfied with their college experience. The Office of Student Engagement 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 Engagement by email or by calling 859-572-6514.

Calendar

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

"N3" – Norse News Network

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

Northern Kentucky Leadership Institute

Northern Kentucky Leadership Institute is the umbrella group of the three organizations that provide leadership programming for all NKU students – Norse Leadership Society, Freshmen Service Leadership Committee, and Leadership Mentors. NKLI also produces Leadership University for

students interested in developing personal and professional skills independently. More information about the Northern Kentucky Leadership Institute, its programming, and the organizations is available in the Student Union, room 329.

Norse Leadership Society

Norse Leadership Society is recognized by students, faculty, and staff as the premier leadership organization on campus. NLS is composed of outstanding student leaders with at least sophomore status. Members come from different backgrounds and display tremendous pride in the university. Most NLS members are also leaders in other student organizations and in the community. NLS provides programs and activities that will cultivate a broad base of leadership and developmental skills either independently or through association with other local organizations. Notable events held by NLS are the fall retreat, Fresh Start, the Presidents Academy, and Catalyst. For more information contact the Office of Student Engagement, 3rd floor of the Student Union.

Freshman Service Leadership Committee

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

Leadership Mentors

Leadership mentors are NKU students with advanced leadership skills working collaboratively with other NKU students to train local high school students for their future leadership roles. For more information, stop by the Northern Kentucky Leadership Institute or Student Engagement in the Student Involvement Center, 3rd floor of the Student Union. For more information email studentlife@nku.edu.

Student Organizations

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

Student Media

Location: Griffin Hall 125

Telephone: 859-572-6677 **Fax:** 859-572-5772

Email Address: studentmedia@nku.edu

Web Addresses:

<http://www.nku.edu/campuslife/involved/media.html>

www.thenortherner.com

www.norsecoderadio.com

Adviser: Michele Day

Student Media, which is housed in the Department of Communication, provides budgetary and advisory support to student-run media, including Norse Code Radio, where students broadcast music and commentary via the Internet and *The Northerner*, an independent, free weekly student newspaper distributed on and near NKU's Highland Heights campus and an independent student news website.

Student Union and Programming

Office Location: Student Union 192

Telephone: 859-572-7774 **Fax:** 859-572-5296

Email Address: studentunion@nku.edu

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

Director: Sarah Aikman

Other Key Personnel:

Associate Director: Chris Tambling

Reservations Coordinator: Leah Kelly

Technical Services Manager: Chris Bowling

Office Manager: Maryann Trumble

The Student Union is the hub for activity on the NKU campus. Offices and services located in the Student Union include: African American Programs and Services; All Card; Chartwells food services; conference services; Dean of Students; Latino Programs and Services; Orientation and Parent Programs; Student Government Association; Student Engagement; Disability Services and Programs; Student Union room reservations and Student Union operations. The facility also includes a variety of places to eat, a game room, and meeting rooms. The information desk, located on the second floor, provides information concerning campus and building events; office locations; laptop checkout; postage stamps; 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 (<http://roomrequest.nku.edu/Schedule7/Portal/GuestPortal.aspxor>) by calling 859- 572-5760.

Activities Programming Board

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

Homecoming

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

Testing Services

Location: University Center 101

Telephone: 859-572-6373 **Fax:** 859-572-1574

Email Address: testing@nku.edu

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

Director: Amy Danzo

Other Key Personnel:

Testing Services Coordinator: Laura Harrington
 Testing Services Coordinator: Matthew Striet

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

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

In addition, admitted freshmen and transfer students who do not meet current Kentucky CPE testing standards are required to take placement test(s) in English, mathematics, and reading through Testing Services. Students must complete placement testing prior to attending orientation or registering for classes. Registration for placement testing is available online.

Examinees are encouraged to browse the Testing Services website for detailed information regarding each test, as well as to register and pay for each test offered.

University Center

Office Location: University Center lobby information booth

Telephone: 859-572-6103 **Fax:** 859-572-5296

Email Address: studentunion@nku.edu

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

Director: Sarah Aikman

Other Key Personnel:

Associate Director: Chris Tambling

Reservations Coordinator: Leah Kelly

Technical Services Manager: Chris Bowling

Office Manager: Maryann Trumble

The University Center houses a variety of support services for students. Offices and services located in the University Center include: the bookstore; Norse Tech Bar; Norse Advising; Career Services; Health, Counseling, and Student Wellness; Veterans Resource Station; Office of First Year Programs; Office of International Students and Scholars; Office of Education Abroad; International Education Center; Learning Assistance Programs; Student Achievement Programs and Services; Testing 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' Educational Resources

Location: Lucas Administrative Center 308

Telephone: 859-572-7609 **Fax:** 859-572-6094

Email Address: veterans@nku.edu

Web Address: <http://registrar.nku.edu/veterans.html>

Military Credit Evaluation

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

Reservists/National Guard Members Called to Active Duty

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

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

Benefit Programs Through the GI Bill

Chapter 33	<p>Post-9/11 GI Bill</p> <p>The Post-9/11 GI Bill provides financial support for education and housing to individuals with at least 90 days of aggregate service on or after September 11, 2001, or individuals discharged with a service-connected disability after 30 days. You must have received an honorable discharge to be eligible for the Post-9/11 GI Bill. For the first time in history, service members enrolled in the Post-9/11 GI Bill program will be able to transfer their unused educational benefits to their spouses or children. The Post-9/11 VA benefit provides up to 36 months of education benefits. Generally benefits are payable for 15 years following release from active duty.</p> <p>To apply:</p> <ul style="list-style-type: none"> • If you are the veteran, complete VA Form 22-1990 Application for VA Education Benefits and submit with DD-214, Copy 4. • If you are the spouse/ dependent of a veteran, the veteran needs to complete the transfer of entitlement form with DoD. Once the veteran is eligible to transfer his/her GI Bill, VA form 22-1990e needs to be completed by the spouse/dependent. More information is available online (http://www.gibill.va.gov/benefits/post_911_gibill/transfer_of_benefits.html).
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Chapter 30	Montgomery GI Bill - Active Duty To be eligible for the GI Bill, you must have served as a member of the armed forces on active duty on or after July 1, 1985. You must have a high school diploma or a GED and have participated in the program, having had \$100 withheld each month for 12 months. To apply: Complete VA Form 22-1990 Application for VA Education Benefits and submit with DD-214, Copy 4.
Chapter 31	Vocational Rehabilitation - Disabled Veterans A disabled veteran who has a service-connected disability of 20 percent or more may qualify. If eligible, veterans receive full tuition, fees and book coverage. Disabled veterans must complete the appropriate paperwork and receive counseling through the Veterans Administration. To apply: Complete VA Form 28-1900 Disabled Veterans Application for Vocational Rehabilitation and submit with DD-214, Copy 4, copy of original marriage license, and copies of original birth certificates for all dependent children.
Chapter 35	Survivors' and Dependents' Educational Assistance Program This covers a son, daughter or spouse of a veteran who has a 100 percent permanent and total service-connected disability or the son/daughter or spouse of a veteran whose death was service-connected. To apply: Complete VA Form 22-5490 Application for Survivors' and Dependents' Educational Assistance.
Chapter 1606	Montgomery GI Bill - Selected Reserve Reservists who enlist or reenlist for a period of six years after June 30, 1985 and who have a high school diploma or GED are eligible upon completion of 180 days of Reserve service. To apply: Complete VA Form 22-1990 Application for Education Benefits and submit DD-2384 Notice of Basic Eligibility. This form is available upon request at the Reserve Center where the reservist is attached.
Chapter 1607	Reserve Education Assistance Program (REAP) Reservists who have been activated for 90 consecutive days or more since September 11, 2001. Must remain in the Reserves to maintain eligibility. To apply: Complete VA Form 22-1990 Application for Education Benefits. Submit copies of all DD 214s and all orders for the period(s) you are using to claim eligibility.

Wellness Center

Location: Founders Hall 235

Telephone: 859-572-7781

Email: wellness@nku.edu

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

Key Personnel:

Employee Wellness Manager: Kim Baker

Student Wellness Manager: Rachel Bishop

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

GENERAL EDUCATION

Foundation of Knowledge

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

Foundation of Knowledge Core Competencies

A – Critical Thinking

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

B – Perspectives

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

C – Communication

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

D – Science and Technology

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

E – Personal Responsibility and Community

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

Assessment of Core Competencies

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

Program Requirements: 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 (must be a lab course) Note: All NKU lab courses are currently four hours.	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

*Kentucky Transfer Policy category.

Program Requirements: Bachelor's Degree Candidates

Bachelor's degree candidates who begin their postsecondary education at NKU must satisfy the requirements listed below; transfer students may be able to receive credit for some or all of the general education requirements through the Kentucky Transfer Policy described later in this chapter.

General Education Categories	Credit Hours
Communication	
Oral	3
Written	6
Scientific and Quantitative Inquiry	
Natural Sciences (including 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

*Kentucky Transfer Policy category.

General Information about Taking Courses

1. Students should consult the Foundation of Knowledge website (<http://gened.nku.edu>) to determine if there have been any changes in the courses approved for each category.
2. For three of the categories – scientific and quantitative inquiry, culture and creativity, and self and society – students may take only one course from the same discipline (for example, biology, mathematics, sociology, theatre). This restriction does not apply to communication or global viewpoints.

- 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, grammatically-correct pieces for a variety of topics and audiences; to employ the principles of rhetorical communication; to comprehend college-level readings in various settings and disciplines; and to comprehend the ethical perspectives of responsibilities of individuals. The following courses are approved for this category:

Oral Communication: three semester credit hours required.

- CMST 101: Public Speaking – three credit hours
- CMST 110: Introduction to Communication Studies – three credit hours
- TAR 111: Creative Expression – three credit hours

Written Communication I: three semester credit hours required.

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

Written Communication II: three semester credit hours required.

- ART 291W: Advanced Writing – Writing for Artists –three credit hours
- BIO 291W: Advanced Writing in Biology –three credit hours
- CHE 391W: Chemical Information and Writing –three credit hours
- EGT 291W: Writing in Engineering Technology –three credit hours
- ENG 291: Advanced College Writing –three credit hours
- ENV 291W: Advanced Writing in Environmental Science –three credit hours
- HIS 291W: Advanced Historical Writing –three credit hours
- HSC 291W: Writing in the Health Sciences –three credit hours
- MUS 291W: Advanced Writing in the Music Profession –three credit hours

Scientific and Quantitative Inquiry Category

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

Natural Sciences: seven semester credit hours required for this category. One course must include a laboratory component; the two courses must be from different disciplines.

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

Mathematics and Statistics: three semester credit hours required.

- MAT 114: Finite Mathematics – three credit hours
- MAT 115: Mathematics for Liberal Arts – three credit hours
- MAT 128: Calculus A – three credit hours
- MAT 129: Calculus I – four credit hours

MAT 185: Introductory Discrete Mathematics – three credit hours
 PHI 265: Logic – three credit hours
 STA 113: Introduction to Probability and Statistics – three credit hours
 STA 205: Introduction to Statistical Methods – three credit hours
 STA 212: Statistics for Business Applications I – three credit hours

Self and Society Category

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

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

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

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

ANT 100: Introduction to Cultural Anthropology – three credit hours
 ANT 110: Introduction to Archaeology – three credit hours
 BIS 111: Problem Solving and Creativity – three credit hours
 ECO 200: Principles of Macroeconomics – three credit hours
 ECO 201: Principles of Microeconomics – three credit hours
 INF 128: Principles of Informatics – three credit hours
 IST 194: Seminar: Introductory Topics – three credit hours
 JOU 110: Introduction to Mass Communication – three credit hours
 JUS 101: Introduction to Criminal Justice – three credit hours
 LIN 175: Information Literacy – three credit hours
 PHI 110: Philosophy, Individuals and Society – three credit hours
 PSC 100: American Politics – three credit hours
 PSC 101: State and Local Politics – three credit hours

PSY 100: Introduction to Psychology – three credit hours
 SOC 100: Introduction to Sociology – three credit hours

Culture and Creativity Category

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

Six semester credit hours required to satisfy this category.

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

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

Global Viewpoints Category

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

Three semester credit hours required to satisfy this category.

ANT 100: Introduction to Cultural Anthropology – three credit hours
 ANT 114: Great Archaeological Sites – three credit hours (offered summer only)
 BIO 235: Costa Rican Natural History – three credit hours

ENG 213: Global Viewpoints in Literature – three credit hours
 GEO 100: Global Viewpoints on Geography and the Human Landscape – three credit hours
 GLY 120: This Dangerous Earth – three credit hours
 HIS 111: Global Viewpoints in History – three credit hours
 JUS 231: Race, Gender and Crime – three credit hours
 LDR 160: Leadership Around the World – three credit hours
 MUS 106: Music of World Cultures – three credit hours
 PHI 200: Ethics – three credit hours
 PHI 220: Health Care Ethics – three credit hours
 PSC 102: Comparative Politics – three credit hours
 PSC 103: International Politics – three credit hours
 PSC 110: Political Ideas – three credit hours
 SOC 100: Introduction to Sociology – three credit hours
 SOC 101: Global Inequalities – three credit hours
 SWK 106: Introduction to Social Justice – three credit hours

Kentucky Transfer Policy

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

Certification of General Education Blocks

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

1. General Education Category Certified. Students who have completed some but not all of the five categories in the Core Component will be "category certified" for purposes of transfer. Individuals in this situation must fulfill all of the remaining general education requirements of the receiving institution that have not been satisfied through category certification.
2. General Education Core Certified. Students who have completed all of the categories – the core component – with a minimum of 30 unduplicated credit hours will be "core certified" for purposes of transfer. Individuals in this category must fulfill the remaining general education requirements of the receiving institution that have not been satisfied through the core component. At NKU, this means completing three credit hours in the Global Viewpoints category.

Kentucky Transfer Policy Category	Northern Kentucky University General Education Category
Communication – six to nine credit hours	Communication
	Oral – three credit hours
	Written – six credit hours
Arts and Humanities – six to nine credit hours	Culture and Creativity – six credit hours
Quantitative Reasoning – three to six credit hours	Mathematics – three credit hours
Natural Sciences – three to seven credit hours	Natural Sciences – seven credit hours
Social and Behavioral Sciences – six to nine credit hours	Self and Society – nine credit hours
	Global Viewpoints – three credit hours

3. General Education Fully Certified. Students who have completed a general education program, with a minimum of 30 unduplicated semester credit hours or the equivalent (may include a SACS justification for fewer hours) which includes the core component and all additional institutional-specific general education courses, will be "general education fully certified" for purposes of transfer. If the receiving institution's general education program requires a sum of hours that is less than the total the student has taken at the sending institution, the excess hours will be accepted for transfer by the receiving institution and evaluated for application toward degree requirements. There may be graduation requirements beyond general education requirements that a student will need to complete (e.g., senior year capstone experiences).

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: Katherine P. Frank

Other Key Personnel:

Assistant Dean and Director of the Advising Center: Amy Racke
 Director of Administration, Planning, and Assessment: Charita Brewer
 Major Gifts Officer: Tony Bonomini
 Interim Director of Integrative Studies: Jennifer H. Webster
 Assistant to the Dean: Cyndi 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 and tracks that we offer in departments of arts, humanities, mathematics and natural sciences, social and behavioral sciences, and 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: University Center 210

Telephone: 859-572-5494 **Fax:** 859-572-1444

Email Address: undeclaredAandS@nku.edu

Web Address: <http://artscience.nku.edu/advisingcenter.html>

Key Personnel:

Academic Advisor: Melanie Freytag
 Assistant Dean and Director: Amy Racke
 Academic Assistant: Melissa Donathan

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

Departments

Biological Sciences
 Chemistry
 English
 History and Geography
 Mathematics and Statistics
 Music
 Physics and Geology

Political Science, Criminal Justice, and Organizational Leadership
 Psychological Science
 Sociology, Anthropology, and Philosophy
 Theatre and Dance
 Visual Arts
 World Languages and Literatures

Accreditations

American Chemical Society – Chemistry
 National Association of Schools of Music – Music
 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

Center for Applied Anthropology

Location: Landrum Academic Center 228

Telephone: 859-572-5702 **Fax:** 859-572-6086

Email Address: cfaa@nku.edu <mailto:cfaa@nku.edu>

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

Director: Douglas W. Hume

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

The Burkardt Consulting Center

Location: Mathematics-Education-Psychology Center 463

Telephone: 859-572-1325 **Fax:** 859-572-6097

Email Address: bcc@nku.edu

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

Director: Joseph Nolan

Assistant Director: Mary Lee Glore

The Burkardt Consulting Center provides assistance with a wide variety of mathematical and statistical projects, studies, and experiments. 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: Founders Hall 519

Telephone: 859-572-5381 **Fax:** 859-572-6179

Email Address: cinsam@nku.edu

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

Director: John Farrar

Other Key Personnel:

Assistant Director, Outreach and Events: Madhura Kulkarni

Science, Technology, Engineering and Mathematics Recruiting Director: Thomas B. Brackman
Outreach Specialists: Debbie Bowles and Reeda Hart
Academic Assistant: Elizabeth Russell
Network Lab Manager: Billy Russell
Assistant Network Lab Manager: Vladislav Tselezhevich

The Center for Integrative Natural Science and Mathematics, established in 1999 as NKU's program of distinction, strives to enhance the teaching, learning, and applying of science and mathematics at NKU and in the northern Kentucky region through interdisciplinary collaboration. CINSAM engages teachers of science and mathematics by offering integrative science and mathematics coursework for prospective teachers and by programs of outreach and continuing education for current teachers. CINSAM supports the science and mathematics programs at NKU. NKU students are encouraged to collaborate with faculty members on research projects. CINSAM also offers summer camps and outreach events to bring science and mathematics to the community.

Center for Public History

Location: Landrum Academic Center 405

Telephone: 859-572-6186

Email Address: centerforpublichisto@nku.edu

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

Director: Paul Tenkotte

Assistant Director: Brian Hackett

The Center for Public History supports the civic engagement and community outreach activities of the faculty and students of the history and geography department providing students with practical and real-world experiences in the promotion, presentation and preservation of local and regional history. The center also provides a venue for department faculty to showcase their work as it actively plans, supports and implements history-related projects in the tri-state area.

Department of Biological Sciences

Location: 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: Kristi L. Haik

Other Key Personnel:

Assistant Chair/Retention Specialist: Denice N. Robertson

Academic Advisor: Lynn Crane

Department Coordinator: Kate Eubanks

Secretary: Victoria Hugo

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

Undergraduate Programs:

Majors:

Bachelor of Arts

Biological Sciences

General Biology Track

Teacher Education Track

Bachelor of Science

Biological Sciences

General Biology Track

Cellular/Molecular/Genetics Track

Ecology/Evolution/Organismal Track

Environmental Science (see interdisciplinary section of catalog)

Forensic Science Track

Pre-professional programs:

NOTE: The following are not majors; they are areas of emphasis for advising purposes. Other pre-professional programs can be found in the section of the catalog dealing with pre-professional programs. The pre-professional programs that fit well with biology are: pre-physicians assistant, pre-optometry, pre-medical, pre-dentistry, pre-pharmacy, pre-physical therapy, and pre-veterinary medicine.

Pre-forestry*

Pre-wildlife management*

*Information about these programs can be found in the Biological Sciences section of the catalog.

Minor:

Biological Sciences

Interdisciplinary Minors: (see interdisciplinary section of catalog)

Environmental Studies

Evolutionary Studies

Neuroscience

Thinking about the discipline: A major in the biological sciences can lead to a variety of careers including laboratory and field research, medicine, dentistry, veterinary medicine, pharmacy, physical therapy, teaching, forensics, and many others.

Special opportunities for our students: The best way for students to learn about science is by doing science. Therefore, the department strongly encourages all students majoring in biology to participate in

research with a faculty member. Students can begin learning about research in "BIO 292: Introduction to Research in Biology" and continue working with a faculty member in "BIO 399: Techniques of the Biological Sciences." In BIO 399 students will learn techniques they can use in "BIO 492: Directed Research: Biological Sciences." Students present their data at local, state, and national professional meetings.

Biology courses are offered in a variety of countries each year, presenting students with the opportunity for international experiences. In addition, the department has four very active clubs: Tri-Beta National Honor Society, Health Professions Club, Environmentally Concerned Organization of Students, and Biology Integration and Outreach for Teaching Advancement.

Special admission requirements: The admission standards for all students pursuing degrees in biology (all tracks) and those interested in pre-professional areas offered by the department are: mathematics ACT \geq 22 and CPE minimum standards of 18 English and 20 reading, or successful completion of appropriate developmental courses. Transfer students must also meet these requirements before declaring a biology major.

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

Biological Sciences Majors

Bachelor of Arts and Bachelor of Science with a major in Biological Sciences

Students pursuing a degree in the biological sciences may do so by choosing one of six different tracks. These tracks allow the individual student to place an emphasis on areas of biology that he or she finds of interest. However, the faculty of the department feel very strongly that each student completing a degree in biology must have a solid foundation in the discipline. Therefore, there is a core of courses required of all majors. A grade of C- or better must be earned in all biology courses that count toward completion of major requirements. The department has also identified a common core of support courses that must be completed with a C- or better by all biological science majors. Details concerning the biology core, support core, and each of the tracks follow.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.A. and B.S. – Biological Sciences

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 CHE 121/121L	General Chemistry I and II with Laboratory	8
PHY 211 and PHY 213	General Physics with Laboratory I and II <i>Prerequisite: MAT 119 or mathematics ACT ≥ 25</i> -- OR -- University Physics with Laboratory I and II <i>Prerequisite: MAT 129 or MAT 227</i>	8-10
PHY 220 and PHY 222		8-10
STA 205	Introduction to Statistical Methods	3
Foreign language requirement: All biological science 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
TOTAL CORE CREDITS		44-46

B.A. General Biology Track*		Credits
BIO 304L	Ecology Laboratory	1
BIO 358	Evolution of Organisms	3
Select one course from the cellular/molecular/genetics group		3-4
Select one course from the ecology/evolution/organismal group		3-4
Select one course from the field biology group		3-4
Select one BIO elective course		3-4
BIO 410	Conservation Biology	4
CHE 310/310L	Organic Chemistry I with Laboratory	4
TOTAL TRACK CREDITS		24-28
Total Core Credits		44-46
TOTAL CREDITS		68-74
*This track is not recommended for those who wish to pursue a postgraduate education in the sciences.		

B.S. General Biology Track		Credits
BIO 304L	Ecology Laboratory	1
BIO 358	Evolution of Organisms	3
Select one course from the cellular/molecular/genetics group		3-4
Select one course from the ecology/evolution/organismal group		3-4
Select one course from the field biology group		3-4
Select one BIO elective		4
CHE 310/310L	Organic Chemistry I	4
CHE 311/311L	Organic Chemistry II with Laboratory -- OR --	3-4
Select another advanced CHE, GLY, PHY, or GEO course		
MAT 112	Applied Calculus -- OR --	3-4
MAT 129	Calculus I	
TOTAL TRACK CREDITS		27-32
Total Core Credits		44-46
TOTAL CREDITS		71-78

B.S. Cellular/Molecular/Genetics Track		Credits
BIO 342	Biometry	4

BIO 302/302L	General Microbiology with Laboratory	4
BIO 400/400L	Advanced Molecular Biology with Laboratory -- OR --	3-4
BIO 360	Advanced Biology of the Cell	
Select two courses from the cellular/molecular/genetics group		6-8
CHE 310/310L	Organic Chemistry I with Laboratory	4
CHE 311/311L	Organic Chemistry II with Laboratory	4
CHE 482	Biochemistry I	3
CHE 483	Biochemistry II	3
MAT 112	Applied Calculus -- OR --	
MAT 129	Calculus I	3-4
TOTAL TRACK CREDITS		34-38
Total Core Credits		44-46
TOTAL CREDITS		78-84

B.S. Ecology/Evolution/Organismal Track		Credits
BIO 342	Biometry	3
BIO 358	Evolution of Organisms	3
BIO 304L	Ecology Laboratory	1
Select one course from the ecology group		3-4
Select two courses from the organismal group		6-8
Select one course from the field biology group		3-4
CHE 310/310L	Organic Chemistry I with Laboratory	4
CHE 311/311L	Organic Chemistry II with Laboratory -- OR --	3-4
Select another advanced CHE, GLY, PHY, or GEO course		
MAT 112	Applied Calculus -- OR --	3-4
MAT 129	Calculus I	
TOTAL TRACK CREDITS		29-35
Total Core Credits		44-46
TOTAL CREDITS		73-81

B.S. Forensic Science Track*		Credits
BIO 342	Biometry	3
BIO 302/302L	General Microbiology with Laboratory	4
BIO 320/320L	Entomology with Laboratory	4
BIO 400/400L	Advanced Molecular Biology with Laboratory	4
BIO 455	Scanning Electron Microscopy -- 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 with Laboratory	4
CHE 482/482L	Biochemistry I with Laboratory	4
JUS 101	Introduction to Criminal Justice	3
JUS 204	Criminal Investigation	3
MAT 129	Calculus I	4
TOTAL TRACK CREDITS		44-45
Total Core Credits		44-46
TOTAL CREDITS		88-91

*This track is designed to provide students who wish to pursue a career in forensic science with a solid background in the sciences while giving them the basic knowledge that they will need in order to succeed in the criminal justice system. It is strongly recommended that majors in the track complete the minor in criminalistics offered by the Department of Political Science, Criminal Justice, and Organizational Leadership. By doing so, they will be much better prepared to work with law enforcement professionals. This track is designed to ensure that graduates who later decide to pursue some other area of work in the biological sciences or go to graduate school can do so with little if any additional coursework.

B.A. Biology Teacher Education Track*		Credits
BIO 358	Evolution of Organisms	3
BIO 304L	Ecology Laboratory	1
Select one plant course with laboratory		3-4
Select one animal course with laboratory		4
Select one course from the cellular/molecular/genetics group		3-4
EDU 104	Orientation: Education Profession/ Program	1
PSY 100	Introduction to Psychology	3
TOTAL TRACK CREDITS		18-20
Total Core Credits		44-46
TOTAL CREDITS		62-66

*Additional EDU and EDA education courses (see College of Education and Human Services) are required. Students pursuing a biology/secondary education curriculum should review that portion of this catalog relating to secondary education. Upon deciding to pursue the teacher education program, students must meet with the certification specialist in the College of Education and Human Services. Each student will also be assigned an advisor from the Department of Biological Sciences who will work closely with him or her to make sure all requirements are met in a timely manner and in the proper sequence.

Biological Sciences Course Groups

Cellular/Molecular/Genetics Group

Course	Title
BIO 302	General Microbiology
BIO 360	Advanced Biology of the Cell
BIO 400	Advanced Molecular Biology
BIO 402	Advanced Neurobiology
BIO 425	Mammalian Anatomy and Physiology I
BIO 426	Mammalian Anatomy and Physiology II
BIO 430	Immunology
BIO 446	Plant Physiology
BIO 452	Cancer Genetics
BIO 467	Endocrinology
BIO 470	Medical Microbiology
BIO 475	Virology
CHE 482	Biochemistry

Ecology/Evolution/Organismal Group

Course	Title
BIO 300	Comparative Vertebrate Anatomy
BIO 301	Invertebrate Zoology
BIO 303	Vertebrate Zoology
BIO 305	Developmental Biology
BIO 308	Plant Systematics
BIO 309	Plant Ecology
BIO 311	Mycology
BIO 313	General Botany
BIO 320	Entomology

BIO 404	Herpetology
BIO 406	Ecosystem Ecology
BIO 407	Ornithology
BIO 409	Biogeography
BIO 410	Conservation Biology
BIO 422	Limnology
BIO 425	Mammalian Anatomy and Physiology I
BIO 426	Mammalian Anatomy and Physiology II
BIO 440	Animal Behavior
BIO 441	Animal Physiological Ecology
BIO 446	Plant Physiology
BIO 460	Introduction to Marine Biology
BIO 461	Ecology and Geology of Coral Reefs
BIO 462	Tropical Ecology
BIO 465	Regional Biology
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	Developmental Biology
BIO 309	Plant Ecology
BIO 311	Mycology
BIO 313	General Botany
BIO 320	Entomology
BIO 404	Herpetology
BIO 407	Ornithology
BIO 425	Mammalian Anatomy and Physiology I
BIO 426	Mammalian Anatomy and Physiology II
BIO 440	Animal Behavior
BIO 441	Animal Physiological Ecology

Field Group

Course	Title
BIO 309	Plant Ecology
BIO 312	Dendrology
BIO 320	Entomology
BIO 404	Herpetology
BIO 406	Ecosystem Ecology
BIO 407	Ornithology
BIO 422	Limnology
BIO 460	Introduction to Marine Biology
BIO 461	Ecology and Geology of Coral Reefs
BIO 462 and	
BIO 463	Tropical Ecology Lecture and Laboratory
BIO 465	Regional Biology

Ecology Group

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

Pre-Professional Programs

Additional pre-professional programs may be found in the Pre-Professional Programs section of the catalog.

Pre-Forestry

Students interested in forestry may take their first two years of coursework at NKU and then finish work for the bachelor's degree in forestry at a forestry school. Realizing that many students do not go on to forestry school for one reason or another, the department recommends that students follow a B.S. or B.A. track. By so doing, it is likely that little if any credit will be lost if a change of direction does occur. In addition to pre-professional requirements, students will have to complete general education requirements for the school they will attend.

Pre-professional requirements for the forestry school at the University of Kentucky include the following:

- MAT 119: Precalculus Mathematics
- MAT 129: Calculus I
- STA 205: Introduction to Statistical Methods
- CHE 120: General Chemistry I
- CHE 121: General Chemistry II
- BIO 150: Introduction to Biology I
- BIO 151: Introduction to Biology II
- BIO 155: Orientation to Biology
- PHY 211: General Physics with Laboratory I
- ECO 201: Principles of Microeconomics
- AEC Economics of Food and Agriculture (to be taken at UK)
- GEO 306: Environmental Resource Management
- 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 www.ca.uky.edu/forestry. The curriculum plan for general biology may be used as a guide for planning the first year of coursework.

Pre-Wildlife Management

Students interested in wildlife management may complete their first two years of coursework at NKU and then finish work for the bachelor's degree in wildlife management at a university offering such a degree. Realizing that many students do not go on to a wildlife management program for one reason or another, they are advised to follow a B.S. or B.A. track. By so doing it is likely that little if any credit will be lost if a change of direction does occur. At the earliest opportunity, students should consult the catalog or website (for Eastern Kentucky University, students should refer to the 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.

Biological Sciences Minor

Minor in Biological Sciences

Students must earn at least a C- in all biology courses contributing to the minor.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Biological Sciences		Credits
BIO 150/150L	Introduction to Biology I with Laboratory	4
BIO 151/151L	Introduction to Biology II with Laboratory	4
CHE 120/120L	General Chemistry I with Laboratory	4
CHE 121/121L	General Chemistry II with Laboratory	4
MAT 112	Applied Calculus <i>Prerequisite: C- or better in MAT 109 or placement*</i> -- OR --	3
Select one 300/400/500-level mathematics course		
Select 12 additional credit hours of BIO courses with at least 9 at the 300 level or above**		12
TOTAL CREDITS		31
*A student can place out of the prerequisite requirement if he or she has a mathematics ACT ≥ 23 or mathematics SAT ≥ 540 .		
**Transfer students must complete the additional 12 credits from NKU.		

Department of Chemistry

Location: Herrmann Science Center 204F

Telephone: 859-572-5409 **Fax:** 859-572-5162

Email Address: chemistry@nku.edu

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

Department Chair: Keith Walters

Other Key Personnel:

Assistant Chair: Isabelle Lagadic

Freshman Specialist: Laura L. Padolik

Department Coordinator: Kathryn Lovold

Stockroom/Lab Coordinator: Kris Mason

Freshman Lab Coordinator: Jim Wilkinson

Full-Time Faculty: P.J. Ball, Charlisa Daniels, Grant A. Edwards, John Farrar, Gwen Fields, Kebede Gemene, Patrick Hare, Isabelle Lagadic, Lili Ma, Diana McGill, Celeste Morris, Amber Onorato, Laura L. Padolik, Stefan Paula, K.C. Russell, Bradley Sieve, Keith Walters

Undergraduate Programs:

Majors:

Bachelor of Science

Biochemistry Track*

Forensics Track*

General Chemistry (certified by the American Chemical Society)

Bachelor of Arts

Chemistry

Pre-Professional Areas of Emphasis**

Pre-dental

Pre-medical

Pre-pharmacy

Pre-physical therapy

Pre-veterinary medicine

Minor:

Chemistry

*These major tracks may also be American Chemical Society certified depending on courses chosen as electives.

**These areas may be selected by majors in the B.S. General Chemistry, B.S. Biochemistry, or B.A. Chemistry tracks, and more information is found in the pre-professional section of the catalog.

Thinking about the discipline: Students who choose to major in chemistry are inquisitive and good problem solvers. A degree in chemistry prepares students to become professional chemists and biochemists and to enter graduate programs or professional programs such as medical, pharmacy, dental, veterinary, and law school. Graduates from NKU's chemistry program are successful industrial and environmental chemists, forensic scientists, physicians, pharmacists, college professors, and high school teachers. Some graduates choose unconventional career paths such as pharmaceutical and medical equipment sales, public health administration, and even banking or finance. In short, the training students receive in this rigorous, student-centered curriculum prepares them to be successful in any field that requires creativity, critical thinking, and problem-solving skills.

Special opportunities for our students: Students interested in chemistry have many opportunities outside the classroom where they can apply their skills and interests. The department is extremely well equipped to support faculty-student collaborative work, and the department strongly encourages students to work with a professor on an undergraduate research project. Students have the opportunity to participate in several different vibrant research groups as well as to participate in regional internship opportunities. The department also has a very

active student group, the Student Affiliates of the American Chemical Society, as well as an honor society, Gamma Sigma Epsilon Chemistry Honor Society (www.gammasigmaepsilon.org).

Special admission requirements: The admission standards for all students pursuing degrees in chemistry and those interested in pre-professional areas of emphasis offered by the department are: mathematics ACT ≥ 22 , English ACT ≥ 18 and reading ACT ≥ 20 (or their equivalencies), or successful completion of appropriate developmental courses. Transfer students must meet these requirements before declaring a chemistry major as well. There are also requirements for registering for "CHE 120: General Chemistry I." The prerequisite is high school chemistry and one of the following: 1) a minimum score of 22 on the ACT mathematics section or equivalent, 2) a B- or better in "CHE 102: Introduction to Chemistry," or 3) satisfactory performance on the department's placement exam. Students should contact the department to schedule a challenge test if they had high school chemistry but scored less than 22 on the ACT mathematics section and wish to try to test into this course.

You should also know: For all major tracks in chemistry, students must take a minimum of 9 hours of chemistry courses at NKU, 1 credit hour of which must be "CHE 400: Chemistry Seminar."

Chemistry Majors

Bachelor of Science with a major in Chemistry

Students who aspire to careers as professional chemists should seek to obtain the Bachelor of Science. Students must complete the core courses listed below plus one of the three tracks:

General Chemistry Track (ACS Certified)

Biochemistry Track

Forensics Track

Students majoring in chemistry are urged to participate in independent research (CHE 292 or CHE 492) and are also encouraged to take at least one year of a foreign language and additional mathematics coursework beyond the required Calculus II. A student completing the Bachelor of Science in chemistry is not required to complete a minor or a focus.

The general chemistry track is certified by the American Chemical Society, as it meets certain requirements prescribed by that organization. Students may also receive ACS certification in the other Bachelor of Science tracks by selecting appropriate course options as indicated below.

Degree Requirements: B.S. – Chemistry

Core Courses	Credits	
CHE 125	Introduction to Chemistry and Biochemistry	1
CHE 120/120L	General Chemistry I with Laboratory	4
CHE 121/121L	General Chemistry II with Laboratory	4
CHE 310/310L	Organic Chemistry I with Laboratory	4
CHE 311/311L	Organic Chemistry II with Laboratory	4
CHE 340/340L	Analytical Chemistry with Laboratory	5
CHE 360	Physical Chemistry I	3
CHE 361	Physical Chemistry II	3
CHE 362L	Physical Chemistry Laboratory	2
CHE 391W	Chemical Information and Writing	3
CHE 400	Chemistry Seminar	1
CHE 482	Biochemistry I	3

MAT 129 and MAT 229	Calculus I Calculus II -- OR --	9
MAT 128, MAT 227, and MAT 228	Calculus A Calculus B Calculus C	
PHY 211 and PHY 213	General Physics with Laboratory I and II -- OR --	8-10
PHY 220 and PHY 222	University Physics with Laboratory I and II	
TOTAL CORE CREDITS		54-56

General Chemistry Track (ACS Certified)

The general chemistry track (ACS Certified) is designed to offer students a rigorous background in chemistry that will prepare them for careers in industrial chemistry and for graduate work in chemistry. With the addition of one year of biology (BIO 150/150L and 151/151L), this track is also well suited for those students who wish to further education in professional school (medical, dental, veterinary, pharmacy, etc).

General Chemistry Track		Credits
CHE 320/320L	Inorganic Chemistry with Laboratory	5
CHE 350/350L	Instrumental Analysis with Laboratory	4
Advanced content coursework - select at least 3 credit hours from the following:		
CHE 410	Spectrometric Identification of Compounds	
CHE 440	Environmental Chemistry	
CHE 450	Advanced Chemical Analysis	
CHE 460/460L	Molecular Spectroscopy with Laboratory	
CHE 483	Biochemistry II	3
CHE 511	Natural and Medicinal Product Synthesis	
CHE 512	Physical Organic Chemistry	
CHE 560	Quantum Mechanics	
Advanced research methods coursework - select at least 3 credit hours from the following:		
CHE 392	Advanced Laboratory Projects	
CHE 482L	Biochemistry I Laboratory	
CHE 483L	Biochemistry II Laboratory	3
CHE 492	Research: Chemistry	
CHE 505	The History of Chemistry	
TOTAL TRACK CREDITS		15
Total Core Credits		54-56
TOTAL CREDITS		69-71

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 graduate school or professional school (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
BIO 349/349L	Genetics with Laboratory	4
Select at least two courses from the following		
BIO 302/302L	General Microbiology with Laboratory	

BIO 360	Advanced Biology of the Cell	
BIO 400/400L	Advanced Molecular Biology with Laboratory	7-9
CHE 320/320L	Inorganic Chemistry with Laboratory	
CHE 350/350L	Instrumental Analysis with Laboratory	
TOTAL TRACK CREDITS		24-26
Total Core Credits		54-56
TOTAL CREDITS		78-82
*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 focus is not required with this track, it is strongly recommended that majors in this track complete the minor in criminalistics offered by the Department of Political Science, Criminal Justice, and Organizational Leadership. By doing so, students will be much better prepared to work with law enforcement professionals. Due to the complexity of this program, it is critical that students work closely with their advisor throughout their NKU academic career.

NOTE: To receive ACS certification, CHE 320/320L must also be taken in addition to the coursework specified in this track.

Forensic Track		Credits
CHE 482L	Biochemistry I Laboratory	1
BIO 150/150L	Introduction to Biology I with Laboratory	4
BIO 151/151L	Introduction to Biology II with Laboratory	4
BIO 349/349L	Genetics with Laboratory	4
BIO 400/400L	Advanced Molecular Biology with Laboratory	4
STA 205	Introduction to Statistical Methods	3
JUS 101	Introduction to Criminal Justice	3
JUS 204	Criminal Investigation	3
Select at least one course from the following:		
BIO 455	Scanning Electron Microscopy	
CHE 350/350L	Instrumental Analysis with Laboratory	3-4
TOTAL TRACK CREDITS		29-30
Total Core Credits		54-56
TOTAL CREDITS		83-86

Bachelor of Arts with a major in Chemistry

This degree is designed for those students who are interested in teaching chemistry at the high school level or for those students who will graduate with two majors. Students completing the Bachelor of Arts in chemistry are required to complete a minor or a focus if they have just one major.

Degree Requirements: B.A. – Chemistry

Courses	Credits	
CHE 125	Introduction to Chemistry and Biochemistry	1
CHE 120/120L	General Chemistry I with Laboratory	4
CHE 121/121L	General Chemistry II with Laboratory	4
CHE 310/310L	Organic Chemistry I with Laboratory	4
CHE 311/311L	Organic Chemistry II with Laboratory	4
CHE 340/340L	Analytical Chemistry with Laboratory	5
CHE 360	Physical Chemistry I	3
CHE 361	Physical Chemistry II	3
CHE 362L	Physical Chemistry Laboratory	2
CHE 391W	Chemical Information and Writing	3
CHE 400	Chemistry Seminar	1

At least 3 additional credit hours of allowed 300-level-or- above chemistry courses		3
MAT 129 and MAT 229	Calculus I Calculus II -- OR --	9
MAT 128, MAT 227, and MAT 228	Calculus A Calculus B Calculus C	
PHY 211 and PHY 213	General Physics with Laboratory I and II -- OR --	8-10
PHY 220 and PHY 222	University Physics with Laboratory I AND II	
TOTAL CREDITS		54-56

Secondary Chemical Education

Students interested in a career as a high school chemistry teachers should receive a bachelor's degree in chemistry (any track) and complete the secondary education requirements as prescribed by the Department of Teacher Education. Students are encouraged to work closely with advisors in both departments to ensure that all requirements are met in a timely fashion.

Chemistry Minor

Minor in Chemistry

The minor in chemistry requires 8 hours of general chemistry (CHE 120, CHE 120L, CHE 121, and CHE 121L) plus an additional 12 credit hours of 300/400/500-level chemistry courses (independent study and research coursework do not count toward the minor). Students must take at least 4 of the 12 300/400/500-level hours at NKU and earn a GPA of at least 2.0 in all chemistry courses.

Department of English

Location: Landrum Academic Center 500

Telephone: 859-572-5416 **Fax:** 859-572-6093

Email Address: english@nku.edu

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

Department Chair: Emily Detmer-Goebel

Other Key Personnel:

Academic Advisor: Joe Moffett

Writing Instruction Program Director: Jennifer Cellio

Graduate Program Director: John Alberti

Creative Writing Coordinator: Andrew Miller

Cinema Studies Director: John Alberti

Department Coordinator: Julie Hess

Department Secretary: Ann Harding

Full-Time Faculty: John Alberti, Janel Bloch, Thomas Bowers, Jennifer Cellio, Jonathan S. Cullick, Emily Detmer-Goebel, Donelle Dreese, Andrea Gazzaniga, Steven J. Gores, Barclay Green, Parmita Kapadia, Roxanne Kent-Drury, Nancy Kersell, Tonya Krouse, Andrew P. Miller, Kelly Moffett, Tamara F. O'Callaghan, Robert T. Rhode, Danielle Roemer, Chenliang Sheng, Ernest Smith, Paige Byam Soliday, Robert K. Wallace, Gary Walton, Chris Wilkey, Kristine A. Yohe

Undergraduate Programs:

Majors:

Bachelor of Arts

English

English with secondary teaching certification

Minors:

Cinema Studies (see interdisciplinary section of catalog)

Creative Writing

English

Professional Writing

Thinking about the discipline: English programs promote critical, creative, and reflective expression in the English language. Students in the English program engage with diverse literary texts and cultural texts, and they learn and practice critical reading and effective writing. In addition to these skills, students seeking secondary teaching certification in English learn and practice the most up-to-date pedagogical theories and methods.

The skills that English majors develop in research, communication, comprehension, and analysis prepare them for careers in a multitude of fields in the private and public sectors such as government, law, education, business, and nonprofits. NKU's English program emphasizes written communication skills, intellectual development, and humanistic values, which enable students to identify and pursue personal, career, and civic goals.

What can someone do with an English degree? In today's ever-changing and dynamic modern economy, graduates need a diverse set of skills and experiences, a flexible and adaptable outlook, and the ability to think creatively, all of which 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 credit hours of university work, number of hours of work completed in English, and GPA in English classes.

The department offers a variety of scholarships and awards including: Stallings English Scholarship; Eric Meyer Poetry Scholarship; R.M. Miller Endowed Award for Outstanding Fiction Writing; Barbara M. Collier Memorial Endowed Scholarship; Byron Award; Thad Lindsey Award; Lindsey Book Awards; Lindsey Leadership Award; Judith Blackburn Award; and the Writing Instruction Program Awards. Information about selection criteria and applications can be found on the English department website (<http://arts.nku.edu/departments/english.html>).

The English department has four publications that provide publishing opportunities for students: (1) *Loch Norse Magazine* is Northern Kentucky University's student literary magazine. *Loch Norse Magazine* publishes exclusively student poems, short stories, one-act plays, and excerpts from longer works of fiction (novella and novel); (2) *The Licking River Review* is Northern Kentucky University's annual literary and art magazine. *The Licking River Review's* purpose is to showcase the best literary and art works submitted each year by NKU students, alumni, and emerging or established writers; (3) The result of collaboration between departments in the sciences and the Department of English, *Norse Scientist* is an annual journal of student science writing edited and produced by students; and (4) *WORD* is the Department of English's public newsletter and literary magazine. While the majority of the articles are written by faculty, students often serve as editorial assistants for *WORD* and may contribute their writing.

Special graduation requirements: To graduate, a student must earn a grade of *C* or higher in every course used to fulfill the major or minor requirements in English, including courses used to fulfill the foreign language requirement. All English majors are required to demonstrate (1) intermediate-level proficiency in a foreign language previously spoken or used to satisfy the NKU entrance requirement or (2) novice-level proficiency in a second foreign language. Students can demonstrate intermediate-level proficiency by either completing the appropriate 200-level course in the language studied in high school or by attaining an acceptable score on the CLEP test in that language. Students can demonstrate novice-level proficiency by completing two semesters of a language not previously studied or spoken.

English Majors

Bachelor of Arts with a major in English

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

Degree Requirements: B.A. – English

Core Courses in English	Credits
ENG 250 Introduction to English Studies	3
Select two survey sequences from the following:	
British	
ENG 202	Survey of British Literature I
ENG 203	Survey of British Literature II
-- OR --	
American	
ENG 208	Survey of American Literature I
ENG 209	Survey of American Literature II
-- OR --	

ENG 217	African-American Literature to 1940	12
ENG 218	African-American Literature 1940 to Present -- OR --	
Writing		
ENG 204	Introduction to Writing Studies	15
ENG 205	Contemporary Issues in Writing Studies -- OR --	
ENG 204	Introduction to Writing Studies	3
ENG 231	Introduction to Creative Writing	
ENG 450	Capstone in English Studies	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 track 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.

Literature Track

Literature Track		Credits
ENG 350	Critical Theory	3
Pre-1800 Traditions*		3
Pre-1900 Traditions*		3
Post 1900 Traditions*		3
Genres**		3
Identities***		3
Select two 300/400/500-level ENG courses		6
TOTAL TRACK 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.

Writing Studies Track

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

Writing Studies Track		Credits
ENG 351	Rhetorical Theories and Writing Practices	3
Select 15 credit hours from the following:		
ENG 331	Persuasive Writing	15
ENG 338	Writing for Social Change	
ENG 340	Business Writing	
ENG 347	Technical Writing	
ENG 348	Professional Editing in the Workplace	
ENG 349	Web Writing for the Professions	
ENG 371	Traditional Grammar	
ENG 381	Introduction to Linguistics	
ENG 496	Internship	
ENG 497	Projects: Writing	
ENG 544	Research Methods for Professional Writing	6
ENG 546	Grant Writing	
Select two 300/400/500-level ENG courses		6
TOTAL TRACK CREDITS		24
Total Core Credits		18
TOTAL CREDITS		42

Creative Writing Track

Creative writing courses are designated in the catalog with the words CREATIVE WRITING. Students choosing this track will complete 15 credit hours in 300/400-level creative writing courses across at least two of the following genres: fiction writing, poetry writing, nonfiction writing, and dramatic writing. "ENG 231, Introduction to Creative Writing," is a prerequisite to 300-level or above creative writing courses.

Creative Writing Track		Credits
Select one course from Genres, Identities or Post-1900 Traditions		3
Select one creative writing course from the following:		
ENG 332	Fiction Writing -- OR --	3
ENG 334	Poetry Writing	
Select 12 credit hours of creative writing courses in at least two genres* at the 300/400 level:		
Fiction Writing		
ENG 332	Fiction Writing	12
ENG 432 and ENG 433	Novel Writing I and II	
Poetry Writing		
ENG 334	Poetry Writing	12
ENG 430	Advanced Poetry Writing	
Nonfiction Writing		
ENG 336	Creative Nonfiction Writing	12
ENG 357	Biographical Writing	
Dramatic Writing		
ENG 358	Writing in Creative Genres	6
ENG 431	Screenwriting	
ENG 358	Writing in Creative Genres	
Select two 300/400/500-level ENG courses		6
TOTAL OPTION CREDITS		24
Total Core Credits		18
TOTAL CREDITS		42

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

The major in English with secondary teaching certification is offered for students who wish to be certified for teaching at the high- or middle-school level. The major consists of 45 credit hours, plus completion of the foreign-language requirement. Students pursuing a major in English with secondary education certification should review the portion of this catalog relating to education and health/physical education. Upon deciding to pursue the teacher education program, students must schedule an appointment with the certification specialist in the College of Education and Human Services and with an advisor in English in the Department of English. Students seeking certification to teach English must also take "EDU 530: Reading in Junior and Senior High School" and requirements for English, education, and general education. They do not need a minor or focus.

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

Core Courses in English		Credits
ENG 200	Understanding Literature	3
ENG 202 and ENG 203	Survey of British Literature I and II	6
ENG 206	Western World Literature I -- OR --	
ENG 207	Western World Literature II	3
ENG 308	Shakespeare I -- OR --	
ENG 309	Shakespeare II	3
ENG 381	Introduction to Linguistics -- OR --	
ENG 382	History of the English Language	3
ENG 385	Teaching of English I	3
ENG 387	Teaching of English II	3
Total Core Credits		24
Select one British literature course designated as Pre-1700 Traditions		3
Select one British literature course designated as Pre-1800 or Post-1900 Traditions		3
Select two courses in American literature		6
Select three ENG electives		9
TOTAL TRACK CREDITS		21
Total Core Credits		24
TOTAL CREDITS		45

English Minors

Minor in English

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

Requirements for Minor: English		Credits
Select two courses from the following:		
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 217	African American Literature to 1940	6
ENG 204	Introduction to Writing Studies	
ENG 205	Contemporary Issues in Writing Studies	
ENG 231	Introduction to Creative Writing	
Select five ENG electives (at least 9 credit hours must be 300 and 400 level)		15
TOTAL CREDITS		21

Minor in Creative Writing

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

Requirements for Minor: Creative Writing		Credits
ENG 231	Introduction to Creative Writing	3
ENG 332	Fiction Writing	3
ENG 334	Poetry Writing	3
Select 12 credit hours from the following:		
ENG 340	Business Writing	
ENG 347	Technical Writing	
ENG 358	Writing in Creative Genres	
ENG 331	Persuasive Writing	
ENG 431	Screenwriting	
ENG 432	Novel Writing	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	
TOTAL CREDITS		21

Minor in Professional Writing

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

Requirements for Minor: Professional Writing		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	Digital Publishing	
Select 9 credit hours from the following:		
ENG 204	Introduction to Writing Studies	
ENG 205	Contemporary Issues in Writing Studies	
ENG 340	Business Writing -- OR --	
ENG 347	Technical Writing (whichever not taken to fulfill the above requirement)	9
ENG 371	Traditional Grammar	
ENG 231	Introduction to Creative Writing	
ENG 345	Legal Writing	
ENG 359	Writing in Workplace Genres	
ENG 331	Persuasive Writing	
ENG 431	Screenwriting	
ENG 497	Projects: Writing	
TOTAL CREDITS		21

Department of History and Geography

Location: Landrum Academic Center 415

Telephone: 859-572-5461 **Fax:** 859-572-6088

Email Address: hisgeo1@nku.edu

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

Department Chair: William Landon

Other Key Personnel:

Academic Advisor: Joe Moffett
 Freshman Specialist: Suzanne DeLuca
 Director of Black Studies: Eric Jackson
 Director of Geography: John Metz
 Director of Medieval and Renaissance Studies: William Landon
 Director of Public History: Brian Hackett
 Director of Women's and Gender Studies: Mary Bucklin
 Center for Public History: Paul Tenkotte
 Department Coordinator: Janice Rachford
 Secretary: Lou Stuntz

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

Undergraduate Programs:

Majors:

Bachelor of Arts
 Geography
 History
 Social Studies for Secondary Education

Minors:

Geography
 History
 Military History

Interdisciplinary Programs (see interdisciplinary section of catalog)

Black Studies
 Medieval and Renaissance Studies
 Women's and Gender Studies

Certification: Geographic Information Systems (see interdisciplinary programs)

Focus:

Women's and Gender Studies (see interdisciplinary programs)

Thinking about the discipline: The Department of History and Geography provides two essential major fields of study that give us a better understanding of the world in which we live.

History provides an insight into significant events that shaped society and had a lasting impact on the human condition. The study of history provides a solid foundation for careers in education, government, law, museums and historical societies, and business.

Geography is a social science dealing with the impact people have on the world's environment. It is a liberal arts degree that can open the door to careers in public agencies, planning agencies, public health, and geographic information systems. NKU graduates have entered advanced studies in park management, urban planning, meteorology, and medicine.

Special opportunities for our students: History and geography majors serve as interns at more than three dozen agencies, archives, historical societies, museums, and state and national parks. Many of the opportu-

nities are offered through the auspices of the Center for Public History at NKU. Departmental interns work with faculty in coordinating the annual Northern Kentucky History Day, in communications and technology, and in various community projects. See the department chair for further information.

Student organizations include Geography Education Organization for Students and Alpha Beta Phi chapter of Phi Alpha Theta International History Honor Society. GEOS sponsors field trips, social activities, and research/service opportunities. NKU's chapter of Phi Alpha Theta, named best chapter in the United States for 20 years, holds many educational and social activities and publishes an annual journal titled *Perspectives in History*.

Annual student awards include the W. Frank Steely Award, the Outstanding Graduate Award in Geography, the Jeffrey A. Smith Memorial Award, the H. Lew Wallace Award, and the Leon Boothe Community Service Award.

You should also know: Students can complete a minor or focus in history in a fully online format. For more information, contact Educational Outreach.

History and Geography Majors

Bachelor of Arts with a major in History Available in both traditional and fully-online formats.

To graduate with a Bachelor of Arts in history, a student must have earned 42 credit hours (with a C or above in each course counting toward the major). These 42 credit hours consist of 21 core requirement hours and 21 300-level or above credit hours. Before declaring a major in history, a student must complete two foundational courses. These are "HIS 102: History of the United States through 1877" and "HIS 103: History of the United States since 1877" (one of these will count toward the culture and creativity category of NKU's Foundation of Knowledge program). All students majoring in history are required to participate in outcomes assessment, as stipulated in instructions provided to graduating seniors each semester.

Degree Requirements: B.A. – History

Courses for Pre-Major		Credits
HIS 102	History of the United States through 1877	3
HIS 103	History of the United States since 1877*	3
Total Pre-Major Credits		6
Courses in History		
HIS 100	History of Europe to 1500	3
HIS 101	History of Europe since 1500	3
HIS 106	History of African Americans to 1877 -- OR --	
HIS 107	History of African Americans since 1877	3
HIS 108	World History to 1500	3
HIS 109	World History since 1500	3
HIS 389	Historical Research and Writing	3
HIS 489	Senior Seminar	3
Total History Credits		21
Electives 300 level or above		
Select one 300/400/500-level United States history course*		3
Select one 300/400/500-level European history course*		3
Select one 300/400/500-level Non-western history course*		3

Select one Race/gender history course*	3
Select two 300/400/500-level HIS courses *	6
Select one 300/400/500-level GEO course*	3
Total Elective Credits	21
TOTAL CREDITS	48

NOTE: HIS 194H: Honors History Seminar and one additional course at the 300 level or above may be substituted for one six-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

To graduate with a Bachelor of Arts in geography, a student must complete 40 credit hours of geography courses, consisting of 25 core requirement credit hours and 15 300-level or higher credit hours. Before declaring a major in geography, a student must complete a foundational course, "GEO 100: Global Viewpoints on Geography and the Human Landscape" (counts as the student's general education global viewpoints course). All students majoring in geography are required to participate in outcomes assessment. Information on the nature of assessment and a calendar of dates for submission of materials are available from the program coordinator.

Degree Requirements: B.A. – Geography

Courses for Pre-Major		Credits
GEO 100	Global Viewpoints on Geography and Human Landscape	3
Total Pre-Major Credits		3

Courses in Geography

GEO 101	World Regional Geography	3
GEO 108	Physical Geography	3
GEO 314	Maps and Interpretation	3
GEO 389	Research Seminar in Geography	3
GEO 418	Geographic Information Systems	4
GEO 489	Senior Seminar in Geography	3
GEO 301	Urban Geography -- OR --	
GEO 306	Environmental Resource Management	3
GEO 502	Geography of Kentucky	3
Total Geography Credits		25

Electives 300 level or above

Select five 300/400/500-level GEO courses	15
TOTAL CREDITS	43

Bachelor of Arts with a Secondary Education Certification in Social Studies

Students pursuing social studies certification for secondary education should review the portion of the undergraduate catalog relating to secondary education program requirements. Upon deciding to pursue the teacher education program, students must schedule an appointment with the certification specialist in the College of Education and Human Services. To complete degree requirements, students must satisfy social studies, education, and general education requirements. An overall GPA of 2.5 is required for admission and retention of students in the social studies program. Students must meet with their social studies secondary education advisor in the history and geography department to register for their 57 credit hours of social studies content classes, as outlined below. For core courses in education, students must meet separately with their advisor in the College of Education and Human Services.

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

Courses in History and Geography		Credits
GEO 100	Global Viewpoints on Geography and Human Landscape -- OR --	
GEO 101	World Regional Geography	3
HIS 100	History of Europe to 1500	3
HIS 101	History of Europe since 1500	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 389	Historical Research and Writing	3
Select two 300/400/500-level HIS courses		6
Credits in History and Geography		30

Courses in Other Disciplines		Credits
ANT 100	Introduction to 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
Select three 300/400/500-level courses in any of the social studies disciplines other than history		9
Credits in Other Disciplines		27
TOTAL CREDITS		57

History and Geography Minors

Minor in History

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

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	History of Europe to 1500	
HIS 101	History of Europe since 1500 -- OR --	
HIS 102	History of the U.S. through 1877	
HIS 103	History of the U.S. since 1877 -- OR --	6
HIS 106	History of African Americans to 1877	
HIS 107	History of African Americans since 1877 -- OR --	
HIS 108	World History to 1500	
HIS 109	World History since 1500	
Select five 200/300/400-500-level HIS courses		15
TOTAL CREDITS		21

Minor in Geography

Requirements for Minor: Geography		Credits
GEO 100	Global Viewpoints on 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	Dynamics of Weather and Climate
GEO 309	Historical Geography of the United States
GEO 310	Geography of Population
GEO 314	Maps and Map Interpretation
GEO 335	Geography through Film, Art, and Literature
GEO 340	Sustainable Food Systems
GEO 415	Cartography
GEO 418	Geographic Information Systems
GEO 419	Remote Sensing of the Environment
GEO 502	Geography of Kentucky
GEO 507	Local Community: 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
Select two GEO electives	6
Select one 200/300/400/500-level GEO elective	3
TOTAL CREDITS	21

Minor in Military History

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

Requirements for Minor: Military History		Credits
Select seven courses from the following:		
HIS 311	Independence and Constitution 1763-1789	
HIS 365	European Military History: Ancient World to the 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	Civil War and Reconstruction, 1860-1877	
HIS 423	Diplomacy and Foreign Policy of the United States	
HIS 473	Battles and Behavior I: 1066-1836	
HIS 475	The First World War	
HIS 476	The Second World War	
HIS 512	History of Arab Israeli Conflict	
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: Roger Zarnowski

Other Key Personnel:

Department Coordinator: Suzanne Ritchie

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

Undergraduate Programs:

Majors:

Bachelor of Science

Mathematics

Applied Mathematics Track

General Mathematics Track

General Mathematics Track leading to Secondary Teaching Certification

Pure Mathematics Track

Statistics

Actuarial Sciences Track

Applied Statistics Track

Theoretical Statistics Track

Minors:

Applied Statistics

Mathematics

Supported Major:

Middle Grades Education with Mathematics Content Focus

Thinking about the discipline: Mathematics and statistics are about finding patterns in quantitative information and using those patterns to solve problems and predict future trends. Having a good understanding of mathematics and statistics prepares students for careers in a variety of fields where good problem-solving skills are required. In lists of the best jobs, publications like *The Wall Street Journal* and *Forbes* routinely rank mathematicians, 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-hour mathematical sciences seminar course early in their major to discover the possibilities in the disciplines, both while at NKU and after graduating.
- A number of students participate in annual national and international competitions like the Virginia Tech exam and the Putnam exam, which are timed exams of challenging mathematical problems, or the COMAP competition where over one weekend teams of students tackle a large problem that requires them to synthesize and use a number of the mathematical and statistical tools along with the problem-solving skills they have learned.
- The Mathematics and Statistics Club is a student organization that provides both social and informational opportunities for the majors.
- Students can work in the department's Burkardt Consulting Center where they analyze real-world problems for clients from both the university and the community.

- Students can work on research projects, either one on one with a faculty mentor or by taking the mathematical sciences capstone course. They can attend regional and national meetings to present the results of their research. Financial awards area available for some of these student research activities.
- There are a number of merit-based scholarships available to mathematics and statistics students.

Special admission requirements: Students who plan to undertake studies in a mathematical science will need a background in mathematics equivalent to four years of high school that includes algebra I and II, geometry, and trigonometry. An ACT mathematics score of 25 or an SAT mathematics score of at least 570 indicates mastery at a level ready to begin the core courses in the department majors. Deficiencies in a student's background can be remedied in courses taught at NKU. Placement into the appropriate course is based on the student's ACT mathematics score or SAT mathematics score and in some cases a placement exam administered at NKU.

You should also know:

- At least 6 credit hours toward the minor must be completed at NKU.
- A grade below a C- is not applicable to either major.
- At least 9 credit hours toward the major must be completed at NKU.
- A double major in mathematics and statistics consists of satisfying the degree requirements of both majors with a minimum of 58 credit hours of courses applicable to either major.
- A student majoring in mathematics and seeking a focus in statistics must complete four additional 300- or 400-level STA courses not used to satisfy the mathematics major.
- A student majoring in statistics seeking a focus in mathematics must complete four additional 300- or 400-level MAT courses not used to satisfy the statistics major.
- Any substitutions in these programs must be made in consultation with the chair of the department.

Mathematics and Statistics Majors

Bachelor of Science with a major in Mathematics

A major in mathematics can lead to a variety of careers including mathematical and scientific research in areas as different as national security and petroleum exploration; in several business fields such as insurance, banking, and finance; and in professions such as law, teaching, and medicine. The study of mathematics builds a way of thinking that is used to solve a variety of problems that arise in different contexts. That ability to solve problems makes mathematicians a valuable commodity in many occupations. The department offers a Bachelor of Science in mathematics with three tracks. While all mathematics majors complete a common core of courses that ensures the student has a broad knowledge of mathematics, students can follow their interests by choosing from one of three required tracks:

- Pure mathematics designed for those who plan to pursue graduate studies.
- Applied mathematics for those who want to pair mathematics with interests in business, the natural sciences, or the social sciences.
- General mathematics for anyone who wants a comprehensive introduction to mathematics, including those who plan to teach in secondary schools.

Degree Requirements: B.S. – Mathematics

Core Courses in Mathematics and Statistics		Credits
MAT 129 and MAT 229	Calculus I Calculus II -- OR --	9
MAT 128 and MAT 227 and MAT 228	Calculus A Calculus B Calculus C	
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 -- OR -- MAT 491	Mathematical Sciences Capstone -- OR -- Mathematics Honors Research Project	3
Core Credits in Mathematics and Statistics		23
Core Courses in Other Disciplines		Credits
CSC 270 -- OR -- INF 260	Mathematics Software Programming -- OR -- Object-Oriented Programming I	3
Core Credits in Other Disciplines		3
TOTAL CORE CREDITS		26

Pure Mathematics Track		Credits
MAT 302	Introduction to Higher Mathematics	3
MAT 310 -- OR -- MAT 410	Elementary Theory of Numbers -- OR -- Abstract Algebra I	3
MAT 420 -- OR -- MAT 430	Real Variables I -- OR -- Complex Variables	3
Select 9 additional credit hours of MAT/STA courses at the 300 level or above including at least two 400-level courses, but excluding MAT/STA 490 and 491		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 MAT 375 Applied Mathematical Models		6
Select 9 additional credit hours of MAT/STA courses at the 300 level or above, excluding MAT/STA 490 and 491		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 -- OR -- MAT 410	Elementary Theory of Numbers -- OR -- Abstract Algebra I	3
STA 341	Statistics II	3

Completion of one of the following sets of courses. If one of these courses duplicates a course taken as a General Mathematics Track requirement listed above, then an additional MAT/STA course at the 300/400 level is required.		
MAT 310 MAT 410 -- OR -- MAT 325 MAT 330 -- OR -- STA 340 STA 341 -- OR --	Elementary Theory of Numbers Abstract Algebra I -- OR -- Differential Equations Classical Applied Analysis -- OR -- Probability II Statistics II -- OR --	6
Two 400-level MAT/STA courses, excluding MAT/STA 490 and 491.		
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 through 9 should complete the 24-25 credit hours 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: Certification in Grades 5-9

Courses	Credits	
MAT 140	Mathematics for Elementary and Middle Grades Teachers I	3
MAT 240	Geometry for Middle School Teachers	3
MAT 110	Introductory Probability	3
MAT 303	Mathematics and Technology for Middle Grades Teachers	3
STA 204	Statistics for Middle Grades Teachers	3
MAT 117	Algebra for Middle Grades Teachers	3
MAT 112	Applied Calculus	3
Select one course from the following: MAT 114 Finite Mathematics MAT 119 Precalculus Mathematics MAT 128 Calculus A MAT 129 Calculus I MAT 185 Introductory Discrete Mathematics MAT 227 Calculus B		3-4
TOTAL CREDITS		24-25
*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 Teachers I and MAT 240 Geometry for Middle School Teachers.		

Bachelor of Science with a major in Statistics

Statistics is the science of learning from data, whether those data come from biology, economics, engineering, medicine, public health, psychology, marketing, sports, or education. The major in statistics offers stu-

dents the breadth and depth of knowledge necessary to attain various career objectives in many different fields. The department offers a Bachelor of Science in statistics consisting of a 22-credit-hour core along with a minimum of 18 credit hours of MAT/STA electives. The electives may be chosen from courses at the 300 level or above (or MAT 234) with at least 9 of these credit hours being STA courses. Although students have freedom in choosing these elective courses, it is recommended that each student choose one of the sets that have been specially designed for particular areas of emphasis. These areas are applied statistics, theoretical statistics, and actuarial sciences.

Degree Requirements: B.S. – Statistics

Core Courses in Mathematics and Statistics		Credits
MAT 129	Calculus I	9
MAT 229	Calculus II -- OR --	
MAT 128	Calculus A	
MAT 227	Calculus B	
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

The applied statistics set of electives is designed for those who plan to seek employment in industry as a practicing statistician in positions such as a data analyst or statistical consultant.

Applied Statistics Area Electives		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 credit hours of MAT/STA courses at the 300 level or above		
TOTAL AREA ELECTIVE CREDITS		18
Total Core Credits		22
TOTAL CREDITS		40

The theoretical statistics set of electives is designed for those who plan to pursue graduate studies in statistics.

Theoretical Statistics Area Electives		Credits
MAT 234	Linear Algebra	3
MAT 329	Calculus III	4
STA 340	Probability II	3
Select 6 additional semester hours of STA courses at the 300 level or above and 3 additional credit hours of MAT/STA courses at the 300 level or above.		9
TOTAL AREA ELECTIVE CREDITS		19
Total Core Credits		22
TOTAL CREDITS		41

The actuarial sciences set of electives is designed for those who plan to enter the actuarial field and need a solid theoretical background along with specialized courses to prepare for success on the actuarial examinations.

Actuarial Sciences Area Electives		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 AREA ELECTIVE CREDITS		19
Total Core Credits		22
TOTAL CREDITS		41

Mathematics and Statistics Minors

Mathematics Minor

The minor in mathematics requires 21 credit hours and a GPA of at least a 2.0 and C- in classes relating to the minor. It is not open to students majoring in either mathematics or statistics.

Requirements for Minor: Mathematics		Credits
MAT 129 and MAT 229	Calculus I Calculus II -- OR --	9
MAT 128 and MAT 227 and MAT 228	Calculus A Calculus B Calculus C	
MAT 234	Linear Algebra	3
Select 9 additional credit hours of MAT courses at the 300 level or above. (May substitute no more than two of STA 250, CSC 270, MAT 119.)		9
TOTAL CREDITS		21

Applied Statistics Minor

The minor in applied statistics requires 21-22 credit hours and a GPA of at least a 2.0 and C- in classes relating to the minor. It is not open to students majoring in either mathematics or statistics.

Requirements for Minor: Applied Statistics		Credits
MAT 112	Applied Calculus -- OR --	3-4
MAT 129	Calculus I -- OR --	
MAT 227	Calculus B	
STA 213	Statistics for Business Applications II -- OR --	3
STA 250	Probability and Statistics I	
STA 314	Design and Analysis of Experiments -- OR --	3
STA 316	Regression Analysis	
Select 6 additional credit hours of MAT or STA courses at the 200 level or above. (May substitute MAT 128 and/or an approved statistical methodology course from major discipline.)		6
Select 6 additional credit hours of STA courses at the 300 level or above.		6
TOTAL CREDITS		21-22

Department of Music

Location: Fine Arts Center 253

Telephone: 859-572-6399 **Fax:** 859-572-6076

Email Address: music@nku.edu

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

Department Chair: Kurt Sander

Other Key Personnel:

Assistant Chair: William Hogg

Academic Advisor: Joan Brummer

Department Coordinator: Annette Pendery

Greaves Concert Hall Coordinator: Jonathan Eaton

Director of Preparatory Department: Holly Attar

Full-Time Faculty: Diana Belland, David Dunevant, Amy Gillingham, William Hogg, Brant Karrick, Ingrid Keller, Eric Knechtges, Scott Lang, Randy Pennington, Frank Restesan, Raquel Rodriguez, Kurt Sander, Michael VanPelt, John Zappa

Undergraduate Programs:

Majors:

Bachelor of Music

Composition

Music Education

Choral/Vocal Track

Instrumental Track

Piano/Choral Track

Performance

Instrumental Track

Jazz Studies Track

Keyboard Track

Piano Pedagogy Track

Vocal Track

Bachelor of Arts

Music

Audio Production Track

Entrepreneurship Track

Liberal Studies Track

Music Technology Track

Minor:

Music

Certificate:

Piano Pedagogy

All degrees and certificates offered by the Department of Music are fully accredited by the National Association of Schools of Music.

Thinking about the discipline: Students with degrees in music have a wide range of opportunities available in the workforce as public or private school teachers, independent studio educators, liturgical music directors, composers, producers, conductors, and performers. Other opportunities also exist in arts administration, marketing, or promotion. Some students opt to continue their studies at the graduate level for careers as university professors, researchers, and nonprofit administrators. Occasionally students will earn their degree in music and opt to pursue additional study in law or medicine.

Special opportunities for our students: Music students are offered a variety of special opportunities tied to groups and opportunities beyond the campus borders.

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.

National Association for Music Education: The purpose of NAFME is to provide future music educators with a connection to the professional world of music education and increased understanding of the role of NAFME 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.

Sigma Alpha Iota: Sigma Alpha Iota is an international fraternity for women in music. Members include undergraduates and graduates in music, alumnae, professional musicians, and outstanding music patrons. In addition to personal encouragement and support, members may receive scholarships, loans, and awards in many areas and at all levels of music-related study.

Special admission requirements: Any student wishing to declare a major in music must complete a successful entrance audition in his or her major applied area to be accepted into the Department of Music.

To be admitted into the music education program, a student must have achieved a 21 composite on the ACT or 1470 combined (three parts) on the SAT.

Entering freshmen and transfer students are required to take placement examinations in music theory and piano. Transfer students must also take a music history examination if deemed appropriate by the department chair.

Information regarding auditions and placement tests may be found on the web (<http://music.nku.edu>).

You should also know:

Academic standards: Candidates for degrees in music are required to receive a grade of *C* 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 freshman 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 300/400-level study. If the four semesters are not completed consecutively, students must secure written permission from the appropriate faculty and the music chair to delay the examination. Students not approved in the sophomore comprehensive

jury must petition to retake the examination. The sophomore comprehensive jury may be taken three times only and will be heard by at least three music faculty members who, by a majority vote, will grade the performance as pass or fail. A summary of the faculty vote is recorded and filed in students' permanent folders.

Applied music instruction: Individual instruction for qualified students is available in wind, brass, percussion, string instruments, organ, piano, voice, guitar, harp, and harpsichord. Private lessons are provided weekly for a half-hour or one hour. Students studying privately may earn one or 2 credit hours. The number of credit hours is determined by the length of the lesson (one-half hour = 1 semester hour; one hour = 2 credit hours). Students will be assigned to applied-lesson instructors by the music chair or 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. A \$50 music fee is also assessed to help cover program expenses including staff accompanists, instrument maintenance, and other costs associated with applied lessons.

Performance organizations: Membership in performance organizations is open to all qualified NKU students. Ensembles include Northern chorale, chamber choir, vocal jazz, university concert band, symphonic winds, jazz ensemble, pep band, NKU philharmonic, chamber orchestra, percussion ensemble and steel drum band. Opportunities for performance in chamber ensembles and the opera workshop are also available. Interested students should call the music office to arrange an audition. Large-ensemble requirements pertaining to curricula for music majors are satisfied only by symphonic winds, university concert band, Northern chorale, chamber choir, chamber orchestra, and NKU philharmonic.

Recital attendance: 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: 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.

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 in 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 53-credit-hour core plus one of the tracks or emphases listed below.

Degree Requirements: B.M. – Performance

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 140	Class Piano I	1/2
MUS 141	Class Piano II	1/2
MUS 142	Class Piano III	1/2
MUS 143	Class Piano IV	1/2
MUS 261	Class Piano V	1/2
MUS 262	Class Piano VI	1/2
MUS 263	Class Piano VII	1/2
MUS 264	Class Piano 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 19th and 20th Centuries	3
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		53

Instrumental Track		Credits
MUS 334	Chamber Music Literature -- OR --	3
MUS 335	Symphonic Literature	
Large ensembles		8
Small ensembles		6
Electives in music		12
TOTAL TRACK CREDITS		29
Total Core Credits		53
TOTAL CREDITS		82

Jazz Studies Track		Credits
MUS 235	Group Jazz Piano I	1
MUS 236	Group Jazz Piano II	1
MUS 237	Jazz Improvisation I	2
MUS 238	Jazz Improvisation II	2
	Large ensembles	2
MUS 306	Vocal Jazz Ensemble -- OR --	4
MUS 317	Jazz Ensemble	
MUS 307	Jazz Combo	6
MUS 321	Jazz Arranging I	2
MUS 322	Jazz Arranging II	2
MUS 323	Jazz Theory	2
MUS 339	History of Jazz	3
MUS 424	Jazz Pedagogy	2
MUS 426	Jazz Styles and Analysis	3
	Electives in music	6
TOTAL TRACK CREDITS		38
Total Core Credits		53
TOTAL CREDITS		91
Core courses "MUS 230: History of Music I: Antiquity through Early Baroque" and "MUS 325: Form and Analysis" are not required for this track.		

Keyboard Track		Credits
MUS 311	Accompanying Skills	4
MUS 331	Keyboard Literature I	2
MUS 348	Piano Pedagogy I	3
MUS 349	Piano Pedagogy II	3
	Small ensembles	6
	Large ensembles	2
	Electives in music	9
TOTAL TRACK CREDITS		29
Total Core Credits		53
TOTAL CREDITS		82

Piano Pedagogy Track		Credits
MUS 311	Accompanying Skills	2
MUS 331	Keyboard Literature I	2
MUS 332	Keyboard Literature II	2
MUS 348	Piano Pedagogy I	3
MUS 349	Piano Pedagogy II	3
MUS 448	Piano Pedagogy III	3
MUS 449	Piano Pedagogy IV	3
	Small ensembles	6
	Large ensembles	2
	Electives in music	5
TOTAL TRACK CREDITS		31
Total Core Credits		53
TOTAL CREDITS		84

Vocal Track		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 (taken after proficiency)	2
MUS 285	Applied Piano (taken after proficiency)	2
	Electives in music	5
TOTAL TRACK CREDITS		42
Total Core Credits		53
TOTAL CREDITS		95

Bachelor of Music in Music Education

The Bachelor of Music in music education is a comprehensive, professional degree program that prepares students for careers in teaching K-12 music in public and private schools. Students complete the core and may select one of three tracks: choral/vocal, instrumental, or piano/choral based on their applied background and their teaching interests. Applicants must be accepted through audition and have achieved a 21 or higher on their ACT examination or a minimum 1470 combined score on the SAT examination.

Students pursuing a Bachelor of Music with teacher certification should review that portion of the university catalog relating to teacher education. Upon approval to pursue the music teacher education program, students must schedule an appointment with the certification specialist in the College of Education and Human Services. Music students should follow the guidelines for certification listed under "Secondary Education."

Candidates for certification must meet the Kentucky Department of Education certification requirements in both general and professional education. Students wishing to be certified in a state other than Kentucky are responsible for knowing and meeting the certification requirements of that state. Each student should work in close consultation with an advisor in order to meet all non-music requirements. All degree emphases in music education are exempt from the requirement to complete a minor or focus

Degree Requirements: B.M. – Music Education

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 140	Class Piano I	1/2
MUS 141	Class Piano II	1/2
MUS 142	Class Piano III	1/2
MUS 143	Class Piano IV	1/2
MUS 261	Class Piano V	1/2
MUS 262	Class Piano VI	1/2
MUS 263	Class Piano VII	1/2
MUS 264	Class Piano 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 19th and 20th Centuries	3
MUS 297	Sophomore Comprehensive Jury	0
MUS 104	Orientation to Music Education	1
MUS 309	Introduction to Music Education	2
MUS 312	Computer Applications for Musicians	1
MUS 325	Form and Analysis	3
MUS 340	General and Vocal Music P-8	3
MUS 352	Conducting I	2
MUS 353	Conducting II	3
MUS 397	Junior Recital	0
Core Credits in Music		46
Core Courses in Other Disciplines		
EDU 300	Human Growth and Development	3
EDU 311	Admission Field Experience Secondary	2
EDU 325	Educational Assessment: Secondary	2
EDU 496	Clinical Experience Secondary	12
EDS 324	Instructional Planning for Inclusive Secondary Classrooms	2
EDS 360	Students with Exceptionalities in Schools	2
Core Credits in Other Disciplines		23
TOTAL CORE CREDITS		69

Choral/Vocal Track		Credits
MUS 249	Instruments for Singers, Pianists, and Guitarists	1
MUS 305	Ensemble Accompanying	2
MUS 442	Choral Methods I	3
MUS 443	Choral Methods II	3
MUS 354	Lyric Diction I	3
Small ensembles		4
Large ensembles		7
Applied voice		14
TOTAL TRACK CREDITS		37
Total Core Credits		69
TOTAL CREDITS		106

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 444	Instrumental Methods I	3
MUS 445	Instrumental Methods II	3
Small ensembles		4
Large ensembles		7
Applied instrument		14
TOTAL TRACK CREDITS		36
Total Core Credits		69
TOTAL CREDITS		105

Piano/Choral Track		Credits
MUS 249	Instruments for Singers, Pianists, and Guitarists	1
MUS 305	Ensemble Accompanying	2
MUS 442	Choral Methods I	3
MUS 443	Choral Methods II	3
MUS 354	Lyric Diction I	3
Small ensembles		4
Large ensembles		7
Applied piano		8
Applied voice		6
TOTAL TRACK CREDITS		37
Total Core Credits		69
TOTAL CREDITS		106

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 140	Class Piano I	1/2
MUS 141	Class Piano II	1/2
MUS 142	Class Piano III	1/2
MUS 143	Class Piano IV	1/2
MUS 261	Class Piano V	1/2
MUS 262	Class Piano VI	1/2
MUS 263	Class Piano VII	1/2
MUS 264	Class Piano 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 19th and 20th 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 I	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
Applied composition		12
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		86

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 a focus in business, psychology, mathematics, history, anthropology, and other fields to create a curriculum tailored to their academic and career interests.

Degree Requirements: B.A. – Music

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 140	Class Piano I	1/2
MUS 141	Class Piano II	1/2
MUS 142	Class Piano III	1/2
MUS 143	Class Piano IV	1/2
MUS 261	Class Piano V	1/2
MUS 262	Class Piano VI	1/2
MUS 263	Class Piano VII	1/2
MUS 264	Class Piano 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 19th and 20th Centuries	3
MUS 297	Sophomore Comprehensive Jury	0
MUS 312	Computer Applications for Musicians	1
MUS 494	Senior Capstone	3
Applied music (major instrument)		8
Electives in music (must have advisor's approval)		12
Ensembles		6
TOTAL CREDITS		61

Audio Production Track	Credits	
EMB 140	Introduction to Media Aesthetics	3
MUS 350	Music Technology I	3
MUS 356	Mixing Techniques I	3
MUS 357	Mixing Techniques II	3
MUS 358	Commercial Music Production I	3
MUS 359	Commercial Music Production II	3
MUS 361	Advanced Music Production	3
TOTAL TRACK CREDITS		21
Total Core Credits		61
TOTAL CREDITS		82

Entrepreneurship Track	Credits	
PRE 394	Topics in Public Relations	3
ENTP 150	Overview of Accounting	3
ENTP 201	Principles of Entrepreneurship	3
ENTP 310	Enterprise Creation	3
ENTP 375	Marketing Strategies for Entrepreneurial Businesses	3
ENTP 499	Independent Study	3
ENTP elective		3
TOTAL TRACK CREDITS		21
Total Core Credits		61
TOTAL CREDITS		82

Liberal Studies Track	Credits	
Area of Focus Electives 300\400 level		12
Electives		9
TOTAL TRACK CREDITS		21
Total Core Credits		61
TOTAL CREDITS		82

Music Technology Track	Credits	
PRE 394	Topics in Public Relations	3
EMB 140	Introduction to Media Aesthetics	3
EMB 215	Introduction to Audio Production	3
MUS 350	Music Technology I	3
MUS 351	Music Technology II	3
MUS 358	Commercial Music Production I	3
MUS 360	Composition for Commercial Media	3
TOTAL TRACK CREDITS		21
Total Core Credits		61
TOTAL CREDITS		82

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 courses from the following:		
MUS 230	History of Music I: Antiquity through Early Baroque	6
MUS 231	History of Music II: Late Baroque to Mid-19th Century	
MUS 337	History of Music III: Mid 19th and 20th 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-hour program providing pianists with the tools and information necessary to support a career as an independent studio teacher. Credits earned in the certificate count toward a four-year degree program in the Bachelor of Music in performance with an emphasis in piano pedagogy.

Requirements for Certificate: Piano Pedagogy		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 Skills	2
MUS 331	Keyboard Literature I	2
	-- OR --	
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
MUS 185	Applied Piano	8
TOTAL CREDITS		34

Department of Physics and Geology

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Email Addresses:

physics@nku.edu
 geology@nku.edu
 engineeringtechnology@nku.edu
 pre-engineering@nku.edu
 planetarium@nku.edu

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

Department Chair: Michael Roth

Other Key Personnel:

Director of Geology: John Rockaway
 Director of Pre-Engineering: John Filaseta
 Director of Engineering Technology: Morteza Sadat-Hossieny
 Academic Advisor: Nikki Gamm
 Department Coordinator: Diana Estep
 Department Assistant: Pam Kremer
 Planetarium Director: Dan Spence
 Lab Technician: Mike Lehrter

Full-Time Faculty: Seyed Allameh, Janet Bertog, Samuel Boateng, Wayne Bresser, Nathan De Lee, Sharmanthie Fernando, John Filaseta, Sarah Johnson, Kassiani Kotsidou, Scott Nutter, John Rockaway, Morteza Sadat-Hossieny, Mauricio Torres, Karl Vogler, Harold Wiebe, Matthew Zacate

Undergraduate Programs:

Majors:

Bachelor of Science
 Geology
 Physics
 Bachelor of Arts
 Geology
 Physics
 Secondary Teacher Education Certification in Earth and Space Science
 Secondary Teacher Education Certification in Physics

Minors:

Evolutionary Studies (see interdisciplinary section of catalog)
 Geology
 Physics

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

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

Geology

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

hazards such as earthquakes, landslides, and volcanoes; how to find and develop the energy and mineral resources necessary for our wellbeing; and how to reduce the environmental impact of our interaction with the Earth. Geology is the study of natural processes that have happened in the past as well as those that are happening today and the application of this knowledge to the betterment of our lives.

Special opportunities for our students: Geology students are active with field trips that range from class field trips to the Appalachians to summer field trips to places like Colorado, Utah, and Belize. These field trips are particularly useful for seeing geology that is not available locally. Students are encouraged to participate in research activities and get involved with internships. Research opportunities are available in paleontology, hydrology, geomorphology, engineering geology, and seismology. Students may have the opportunity to get involved with internships at government agencies. Students are encouraged to participate in the geology club.

You should also know: A grade of C- or better must be earned in all geology courses counting toward the major. Students interested in the application of geology in environmental studies may take courses emphasizing hydrogeology.

Geology Majors

Bachelor of Science with a major in Geology

Students pursuing a career in the field of geology or students planning to attend graduate school – earning either a Master of Science in teaching or in geology – should complete the Bachelor of Science degree. Upon completion of the requirements for a Bachelor of Science degree, students are eligible to take the Geologist Registrants in Training Exam, which is the first requirement toward professional registration. Due to the interdisciplinary nature of this program, a minor is not required for the Bachelor of Science degree in geology.

Degree Requirements: B.S. – Geology

Courses in Geology		Credits
GLY 110	The Face of the Earth with Laboratory	4
GLY 220	History of the Earth	3
GLY 315	Structural Geology with Laboratory	4
GLY 330	Geomorphology with Laboratory	4
GLY 335	Earth Materials	4
GLY 340	Introduction to Environmental Geoscience	3
GLY 394	Seminar: Geology	1
GLY 420	Stratigraphy and Sedimentation with Laboratory	4
GLY 425	Economic Geology	4
GLY 450	Hydrogeology	4
Select two GLY courses from the following:		
GLY 120	This Dangerous Earth	6
GLY 150	Introduction to Field Paleontology	
GLY 225	Prehistoric Life	
GLY 230	Geology of National Parks	
GLY 240	Natural Resources, Energy and the Environment	
Select three GLY courses from the following:		
GLY 341	Soil Science	
GLY 350	Field Paleontology	
GLY 360	Introduction to Geophysics	

GLY 402	Invertebrate-Paleontology with Laboratory	9-12
GLY 416	Geologic Field Methods	
GLY 435	Petrology and Petrography	
GLY 440	Applied Geophysics	
GLY 455	Groundwater Resources and Management with Laboratory	
Credits in Geology		50-53
Courses in Other Disciplines		
CHE 120/120L	General Chemistry I with Laboratory	4
CHE 121/121L	General Chemistry II with Laboratory	4
MAT 119	Precalculus 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 with Laboratory I	5
PHY 213	General Physics with Laboratory II	5
Credits in Other Disciplines		24
TOTAL CREDITS		74-77

Bachelor of Arts with a major in Geology

The Bachelor of Arts in geology is most appropriate for students seeking a dual major who wish to have a background in geology to support another major or for students seeking a degree in secondary education. For students majoring only in geology, this Bachelor of Arts degree requires a minor. The Bachelor of Arts in geology requires 30 hours of geology courses. General graduation requirements include 45 hours of 300- or 400-level courses, so students seeking the Bachelor of Arts in geology need to take at least 15 hours of 300- or 400- level courses in addition to the core courses for the degree. Students should choose these courses in consultation with their advisor, but additional elective courses in geology, geography or environmental science are highly recommended.

Degree Requirements: B.A. – Geology

Courses in Geology		Credits
GLY 110	The Face of the Earth with Laboratory	4
GLY 220	History of the Earth	3
GLY 330	Geomorphology with Laboratory	4
GLY 335	Earth Materials	4
GLY 425	Economic Geology	4
Select 11 additional GLY additional hours		11
Credits in Geology		30

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 2,700 square feet of research lab space. This includes a machine shop and six research labs: computational research lab, X-ray diffraction lab, radioisotope lab, material science lab, optical sciences lab, and particle astrophysics lab. In support of research, the physics program is equipped with a computer cluster, a Mossbauer spectrometer, vacuum systems, a modulated differential calorimeter, wide bandwidth digital and analog oscilloscopes, CAMAC data-acquisition equipment, high-speed NIM electronics, air-supported optics tables, UVNIR spectroradiometers, laser Raman spectrometer spin processor for micro-fabrication, pulsed/CW NMR spectrometer, and an X-ray diffractometer. Students are encouraged to become active members of the Physics and Pre-engineering Club, which holds special events such as telescope nights, planetarium shows, and physics demonstration shows.

Physics Majors

Bachelor of Science with a major in Physics

The Bachelor of Science in physics is designed for those who plan to study physics in graduate school, who wish to pursue another technical field at the graduate level, or who wish to pursue a technical career in industry. The degree requires 42 credit hours in physics or astronomy courses (plus 24 hours 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 eight hours of 300- or 400-level courses in addition to the courses required for the degree. Students should choose these courses in consultation with their advisor, but additional elective courses in physics, computer science, or mathematics are highly recommended. A minor in mathematics is recommended for students seeking the Bachelor of Science in physics. This will require 2 3-credit-hour courses beyond those required for the physics degree. Suggested courses include "MAT 330: Classical Applied Analysis/PHY 330: Mathematical Physics," "MAT 234: Linear Algebra," "MAT 360: Numerical Analysis," and "MAT 430: Complex Variables." The computing course "CSC 270: Mathematics Software Programming" can also be included in a mathematics minor.

NOTE: A student successfully completing "MAT 330: Classical Applied Analysis," which is cross-listed as "PHY 330: Mathematical Physics" receives credit toward the physics major and the minor in mathematics.

Degree Requirements: B.S. – Physics

Courses in Physics		Credits
PHY 220	University Physics with Laboratory I*	4
PHY 222	University Physics with Laboratory II*	4
PHY 224	University Physics with Laboratory III*	4
PHY 300	Intermediate Physics Laboratory	2
PHY 301	Advanced Physics Laboratory	2
PHY 310	Dynamics	3
PHY 360	Thermodynamics	3
PHY 361	Modern Physics I*	3
PHY 410	Electromagnetic Theory	4

PHY 460	Quantum Mechanics	3
PHY 494	Physics Seminar	1
Select two courses from the following:**		
PHY 330	Mathematical Physics	6
PHY 420	Modern Physics II	
PHY 320	Physical Optics	
Select one 300/400-level PHY or AST course		3
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
*A C- or better is required to proceed to the next-level physics course. ***PHY 330: Mathematical Physics" and "PHY 420: Modern Physics II" are recommended for students planning to pursue graduate work in physics. ***MAT 128: Calculus A, "MAT 227: Calculus B," and "MAT 228: Calculus C" can be taken instead of "MAT 129: Calculus I" and "MAT 229: Calculus II."		
Credits in Other Disciplines		24
TOTAL CREDITS		66

Bachelor of Arts with a major in Physics

The Bachelor of Arts degree with a major in physics provides a basic core of physics courses and is most appropriate for students pursuing dual majors where the second major may be engineering, mathematics, computer science, or education with an emphasis on physical sciences. The Bachelor of Arts in physics requires 33 credit hours of physics or astronomy courses (plus 24 hours of additional required courses in related fields). General graduation requirements include 45 hours of 300- or 400-level courses, so students seeking the Bachelor of Arts in physics need to take at least 17 hours of 300- or 400-level courses in addition to the courses required for the degree. Students should choose these courses in consultation with their advisor, but additional elective courses in physics, computer science, and mathematics are highly recommended.

Degree Requirements: B.A. – Physics

Courses in Physics		Credits
PHY 220	University Physics with Laboratory I*	4
PHY 222	University Physics with Laboratory II *	4
PHY 224	University Physics with Laboratory III*	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
Select 9 credit hours of PHY or AST 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

*A C- or better is required to proceed to the 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."

Credits in Other Disciplines	24
TOTAL CREDITS	57

Physics and Geology Minors

Minor in Geology

A minor in geology consists of 21 credit hours, of which at least 12 must be at the 300 level or above. A minor in geology, emphasizing courses in environmental geology and hydrogeology, is particularly appropriate for students majoring in environmental science. The minor in geology is most appropriate for students who wish to have a background in geology to support another major.

Minor in Physics

The minor in physics requires 21 credit hours of physics and astronomy. Students who minor in physics must complete one of the following sequences in physics: "PHY 211: General Physics with Laboratory I" and "PHY 213: General Physics with Laboratory II"; -- OR -- "PHY 220: University Physics with Laboratory I," "PHY 222: University Physics with Laboratory II," and "PHY 224: University Physics with Laboratory III." At least one of the following courses is required: AST 325, PHY 305, PHY 310, PHY 315, PHY 320, PHY 330, PHY 360; PHY 361. Credit in PHY 110 cannot be applied to the minor.

Other Physics and Geology Programs

Astronomy Program

The study of astronomy is an excellent way 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 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

Certification in Earth and Space Science for Secondary Education

Preparation for certification to teach Earth and space science at the secondary level requires completion of the Bachelor of Arts in geology plus 11 hours of astronomy courses. Detailed program requirements can

be found under "secondary education 8-12" in the College of Education and Human Services section of this catalog. Students interested in this program should declare a major in geology and consult with the director of the geology program and the certification specialist in the College of Education and Human Services.

Certification in Physics for Secondary Education

Preparation for certification to teach physics at the secondary level requires completion of the Bachelor of Arts in physics. Detailed program requirements can be found under "secondary education 8-12" in the College of Education and Human Services section of this catalog. Students interested in the program should contact the chair of the Department of Physics and Geology and the certification specialist in the College of Education and Human Services.

Engineering Technology and Pre-Engineering

Engineering Technology Location: Business Academic Center 234

Telephone: 859-572-1549

Email Address: engineeringtechnology@nku.edu

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

Director of Engineering Technology: Morteza Sadat-Hossieny

Other Key Personnel:

Chair: Michael Roth

Engineering Technology Secretary: Pam Kremer

Lab Technician: Mike Lehrter

Full-Time Faculty: Seyed Allameh, Kassiani Kotsidou, Mauricio Torres, Harold Wiebe,

Undergraduate Programs:

Majors:

Bachelor of Science

Electronics Engineering Technology
Fundamentals of Engineering Track
Quality Track
Systems and Design Track

Mechanical and Manufacturing Engineering Technology
Design Track
Quality Track

Minors:

Advanced Technology
Electronics Technology
Industrial Technology

Certificates:

Automated Manufacturing Processes and Systems
Computer-Aided Design/Drafting (CADD)
Manufacturing Processes
Technological Leadership and Innovation

Pre-Engineering Location: Herrmann Science Center 204H and Founders Hall 510

Telephone: 859-572-5309 **Fax:** 859-572-6092

Email Address: pre-engineering@nku.edu

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

Director of Pre-Engineering: John Filaseta

Department Chair: Scott Nutter (interim)

Engineering Technology Programs

Engineering technology is the study and application of concepts from mathematics and natural sciences used in the implementation and extension of existing or emerging technologies. NKU offers programs leading to an ETAC-ABET-accredited Bachelor of Science degree in the field of electronics engineering technology or mechanical and manufacturing engineering technology. These programs provide the knowledge and practical skills required to gain professional employment in electronics, mechanical systems, and manufacturing industry. The engineering technology programs are supported by local industry, with whom many of our students find opportunities to use what they have learned. The opportunity for positions starts in the second year and typically leads to an offer of full-time employment. Graduates are hired as product design engineers, manufacturing process engineers, quality engineers, sales engineers, etc. Career placement of engineering technology graduates from NKU is excellent.

Special opportunities for our students: Engineering technology students co-op for at least one semester in a field closely related to their major. Many students participate in national engineering societies, such as the SME (Society for Manufacturing Engineers), ASQ (American Soci-

ety for Quality), ASME (American Society for Mechanical Engineers), IEEE (Institute for Electrical and Electronics Engineering, and the SAE (Society of Automotive Engineers). Currently, students compete in the SAE Mini-Baja competition against many of the powerhouse engineering schools from the United States, Canada, Mexico, and other countries.

Graduates may pursue registration/licensure as a professional engineer in most states. The licensure is acquired after meeting requirements such as registration, passing the requisite tests, and a period of supervised practice.

You should also know: Transfer students majoring in engineering technology must complete at least 9 credit hours of the applicable discipline-specific courses for the major at NKU. A minimum of 6 credit hours of the applicable courses for any minor in the department must be completed at NKU.

For more information about the programs including the program objectives and student learning outcomes of EET and MMET, please see the appropriate brochures.

Engineering Technology Majors

Bachelor of Science with a major in Electronics Engineering Technology

This program provides students with both the technological and managerial skills necessary to enter careers in design, application, installation, manufacturing, operation, and maintenance of electrical or electronics systems. Graduates gain skills to analyze, design, apply, and troubleshoot systems with electronic, digital, analog, microcontroller, software, and mechanical components. The combination of practical and theoretical education leads to graduates with diverse technical skills throughout a wide range of applications. Students are required to co-op in industry starting with their second year at school, which often continues and leads to full-time employment.

The EET program is accredited by the Engineering Technology Accreditation Commission of ABET (<http://www.abet.org>).

Students are required to complete the core and a track. A minor is not required.

Degree Requirements: B.S. – Electronics Engineering Technology

Core Courses in Electronics Engineering Technology		Credits
EGT 161	D.C. Circuit Analysis	3
EGT 212	Computer-Aided Drafting and 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	Electromechanical 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
Core Credits in Electronics Engineering Technology		48
Core Courses in Other Disciplines		
CHE 120/120L	General Chemistry I with Laboratory	4
INF 120	Elementary Programming	3
MAT 119	Precalculus Mathematics	3
MAT 128 and MAT 227	Calculus A Calculus B -- OR --	4 or 6
MAT 129	Calculus I	
PHY 211	General Physics with Laboratory I	5
PHY 213	General Physics with Laboratory II	5
STA 205	Introduction to Statistical Methods	3
Core Credits in Other Disciplines		27 or 29
TOTAL CORE CREDITS		75-77

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

Systems and Design Track		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
Select 9 additional credit hours of EGT courses		9
TOTAL TRACK CREDITS		21
TOTAL Core Credits		75-77
TOTAL CREDITS		96-98

Fundamentals of Engineering Track		Credits
EGT 318	Introduction to Nanotechnology	3
EGT 340	Applied Dynamics	3
EGT 361	Fluid Power	3
EGT 450	Thermodynamics and Heat Transfer	3
Select 9 additional credit hours of EGT courses		9
TOTAL TRACK CREDITS		21
TOTAL Core Credits		75-77
TOTAL CREDITS		96-98

Quality Track		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
Select 9 additional credit hours of EGT courses		9
TOTAL TRACK CREDITS		21
Total Core Credits		75-77
TOTAL CREDITS		96-98

Bachelor of Science with a major in Mechanical and Manufacturing Engineering Technology

The accredited Bachelor of Science in mechanical and manufacturing engineering technology focuses on the design and development of parts, processes, and systems. Under this program graduates will acquire knowledge, problem-solving ability, and hands-on skills to enter careers in the design, installation, manufacturing, testing, evaluation, technical sales, or maintenance of mechanical systems. In addition, graduates will have strengths in the analysis, applied design, development, implementation, or oversight of more advanced mechanical systems and processes.

This bachelor's degree program is designed to provide students with the knowledge and skills needed to succeed as technological engineers in today's industry. Students are required to co-op in industry starting with their second year, which often continues and leads to full-time employment. Together with the study of engineering principles, design is the cornerstone of the mechanical and manufacturing technology degree program.

The MMET program is accredited by the Engineering Technology Accreditation Commission of ABET (<http://www.abet.org>).

Students are required to complete the core plus one track. A minor is not required.

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

Core Courses In Mechanical and Manufacturing Engineering Technology		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 362	Tool Design and Computer Aided Manufacturing	3
EGT 380	Machine Design	3
EGT 417	Senior Design in Technology (may be repeated up to three times)	3
EGT 423	Planning and Design of Industrial Facilities	3
EGT 450	Thermodynamics and Heat Transfer	3
EGT 465	Automated Manufacturing Systems	3
Select two courses from the following:		
EGT 260	Industrial Standards, Safety and Codes	
EGT 280	Introduction to Microtechnology	
EGT 386	Electromechanical Instrumentation and Control	6
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 -- OR --	3
INF 110	Business Programming	
MAT 119	Precalculus Mathematics	3
MAT 128 and MAT 227	Calculus A Calculus B -- OR --	4 or 6
MAT 129	Calculus I	
PHY 211	General Physics with Laboratory I	5
PHY 213	General Physics with Laboratory II	5
STA 205	Introduction to Statistical Methods	3
Core Credits in Other Disciplines		27 or 29
TOTAL CORE CREDITS		90 or 92

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

Quality Track		Credits
EGT 321	Productivity Management, Scheduling, and Planning	3
EGT 341	Integrated Resource Management	3
TOTAL TRACK 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	A.C. Circuit Analysis	3
EGT 344	Analog Electronics	3
EGT 345	Digital Electronics	3
Select 9 credit hours from the courses listed under EET program tracks.		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 one of the STEM fields who have an interest in microsystems, nanotechnology and other emerging technologies. Students majoring in MMET are not eligible for this minor.

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	Electromechanical 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 one of the STEM fields who have an interest in design, problem-solving materials processes, and robotics. Students majoring in MMET are not eligible for this minor.

Requirements for Minor: Industrial Technology		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 265	Manufacturing Processes and Metrology	3
EGT 320	Robotics Systems and Material Handling	3
EGT 365	Tool Design and Computer Numerical Control	3
TOTAL CREDITS		21

Engineering Technology Undergraduate Certificates

Certificate in Automated Manufacturing Processes and Systems

This program is designed to provide students with manufacturing automation knowledge. Individuals planning to work in agile and flexible automated manufacturing would greatly benefit from this certificate program. The NKU engineering technology faculty are committed to quality education and training needed by individuals to function effectively in a technological environment.

Requirements for Certificate: Automated Manufacturing Processes and Systems		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	Robotic Systems and Material Handling	3
EGT 365	Tool Design and Computer Numerical Control	3
EGT 386	Electromechanical Instrumentation and Control	3
TOTAL CREDITS		21

Certificate in Computer Aided Design/Drafting

The CADD certificate is a component of the Mechanical and Manufacturing Engineering Technology bachelor degree program. It consists of a number of courses that allow individuals to meet the need for manufacturers and/or innovators in the region. Knowledge and skills gained

through this certificate program will allow individuals to convey their ideas into a manufactureable drawing. Students taking these courses can design, make solid models, and create finite element analysis models necessary to test the models.

Requirements for Certificate: Computer Aided Design/Drafting (CADD)		Credits
EGT 212	Computer-Aided Drafting and Design	3
EGT 265	Manufacturing Processes and Metrology	3
EGT 362	Tool Design and Computer Aided Manufacturing	3
EGT 365	Tool Design and Computer Numerical Control	3
EGT 412	Advanced CADD	3
EGT 462	Finite Element Modeling	3
MAT 119	Pre-Calculus Mathematics	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 credit 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	Precalculus Mathematics	3
TOTAL CREDITS		21

Certificate in Technological Leadership and Innovation

The technological leadership and innovation certificate program helps develop an understanding of the method for managing technology as a global strategic resource. It examines how industries are transformed by new technologies and develops an understanding of the process, roles, and rewards of technological innovation.

It integrates content from strategy and policy, organizational behavior, engineering operations, marketing research and development. The relationship of technology with strategic planning, marketing, finance, engineering, and manufacturing is integrated. Service, societal issues, and international policy issues are covered in some courses.

Requirements for Certificate: Technological Leadership and Innovation		Credits
EGT 211	Quality Control	3
EGT 318	Introduction to Nanotechnology	3
EGT 321	Productivity Management, Scheduling, and Planning	3
ENTP 201	Principles of Entrepreneurship	3
ENTP 376	New Venture Financing	3
LDR 305	Human Relations in Organizations	3
LDR 308	Leadership Development	3
TOTAL CREDITS		21

Pre-Engineering

Engineering is the profession in which the knowledge of the mathematical and natural sciences gained by study, experience, and practice is applied with judgment to develop ways to use economically the materials and forces of nature for the benefit of mankind (ABET, Inc., 2002).

Hence, engineering and the practice of engineers refer to activities that involve the beneficial application of scientific knowledge to the solution of problems. Notice that this application includes economic considerations, uses of materials (for example, resources), and the forces of nature. Additionally, engineering is a profession. Webster notes that a profession is "the body of people in a learned occupation." Engineers have a specialized charge of using knowledge, experience, and creativity, to tackle and systematically design solutions to challenges and problems.

The student who graduates with a Bachelor of Science in engineering will complete study of mathematics courses through differential equations, basic classes in chemistry and calculus-based physics, and the normal set of general-education classes during the whole of the first two years of college. During the second year the engineering student will start the study of coursework (for example, statics or dynamics) that bridges the gap between these basic sciences and the engineering applications of the knowledge of the basic sciences. The last two years will be completed at a campus such as the University of Kentucky or the University of Louisville. These last two years of courses are largely devoted to the study of engineering applications of science and mathematics to the matters of the student's chosen engineering discipline. These courses involve design of solutions culminating with a senior design course and project that are specific to the discipline.

Students who expect to transfer to engineering degree programs such as civil, electrical, mechanical, or mining engineering should complete the courses below plus general education courses.

Pre-Engineering: Civil, Electrical, Mechanical, Mining

Courses	Credits	
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 with Laboratory I	4
PHY 222	University Physics with Laboratory II	4
PHY 224	University Physics with Laboratory III	4
PHY 305	Statics	3
PHY 310	Dynamics	3
CHE 120/	General Chemistry I	4
CHE 120L	General Chemistry I Laboratory	
ENG 101	College Writing	3
CMST 101	Public Speaking	3
EGT 212*	Computer-Aided Drafting and Design	3
ECO 201**	Principles of Microeconomics	3
Technical elective (e.g. PHY 360 Thermodynamics)		3
Select 9 credit hours of general education courses		9
Total Recommended Minimum for Transfer to a B.S. Engineering Degree Program		63

* Recommended for students who wish to co-op in the area. EGT 212 uses the same design software as UK/UofL, but EGT 212 will not transfer to UK/UofL as engineering credit. However, the co-op experience will transfer.

** Recommended as part of the general education requirements.

Students who expect to transfer to engineering degree programs such as chemical, biomedical, materials or agricultural/bioengineering should complete the core courses below plus general education courses.

Pre-Engineering: Chemical, Biomedical, Materials, Agricultural/Bioengineering

Courses		Credits
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 with Laboratory I	4
PHY 222	University Physics with Laboratory II	4
PHY 224	University Physics with Laboratory III	4
PHY 305	Statics	3
CHE 120/ CHE 120L	General Chemistry I General Chemistry I Laboratory	4
CHE 121/ CHE 121L	General Chemistry II General Chemistry II Laboratory	4
CHE 310/ CHE 310L	Organic Chemistry I Organic Chemistry II Laboratory	4
CHE 311/ CHE 311L	Organic Chemistry II Organic Chemistry II Laboratory	4
ENG 101	College Writing	3
CMST 101	Principles of Speech Communication	3
EGT 212*	Computer-Aided Drafting and Design	3
Select 6 credit hours of general education courses		6
Total Recommended Minimum for Transfer to a B.S. Engineering Degree Program		63

* Recommended for students who wish to co-op in the area. EGT 212 uses the same design software as UK/UofL, but EGT 212 will not transfer

to UK/UofL as engineering credit. However, the co-op experience will transfer.

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

Dual-degree option for pre-engineers: Transferring from NKU to engineering degree programs elsewhere generally requires at least two years of study at NKU and then an additional two (or more) years of study after transfer to the engineering degree program at the institution of choice. Pre-engineers have the opportunity to earn a bachelors degree in physics (or chemistry) from NKU if they complete three years of study at NKU prior to transferring to an engineering school. The fourth-year requirements for the NKU degree in physics (or chemistry) are obtained after transferring course credit to NKU that was earned at the engineering school. This dual-degree program (one bachelor's degree from NKU, the other from an engineering school) should be coordinated with the department chair of the academic program (physics or chemistry) prior to transfer from NKU.

A shared cooperative education program with UK is available. The enrolled student works full time and enrolls full time in classes during alternating semesters/sessions. Cooperative education credit earned at NKU may be transferred to other schools.

Department of Political Science, Criminal Justice, and Organizational Leadership

Location: Founders Hall 436

Telephone: 859-572-5321 **Fax:** 859-572-6184

Email Address: psc@nku.edu

Web Address: <http://artscience.nku.edu/departments/psc.html>

Department Chair: Shamima Ahmed

Other Key Personnel:

Program Coordinator for Political Science: Shauna Reilly
 Program Coordinator for Criminal Justice: Danielle McDonald
 Program Coordinator for Criminal Justice Online: Alexis Miller
 Program Coordinator for Organizational Leadership: Megan Downing
 Program Coordinator for Pre-Law: Bruce McClure
 Retention Specialist: Aprile Redden
 Internship Coordinator: Caroline Braden
 Department Coordinator: Margo Wheatley
 Secretary: Samra Pilav

Full-Time Faculty: Shamima Ahmed, Michael Baranowski, Michael Bush, Kent Curtis, Megan Downing, Tom Edwards, Edward Kwon, Thomas Lambert, Arelis Madero-Hernandez, Gary Mattson, Bruce McClure, Danielle McDonald, Jonathan McKenzie, Alexis Miller, Marcos Misis, Melissa Moon, Gail O'Brien, Julie Olberding, Aprile Redden, Shauna Reilly, Ryan Salzman, Jill Shelley, Kimberly Weir, Jeffrey Zimmerman

Undergraduate Programs:

Majors:

Bachelor of Arts
 Criminal Justice
 Organizational Leadership
 Political Science

Minors:

Criminal Justice
 Criminalistics
 Organizational Leadership
 Political Science
 Public Service
 Pre-Law

Certificate:

Organizational Leadership

Interdisciplinary Programs (see interdisciplinary section of catalog)

Major:

International Studies

Minors:

Asian Studies
 European Studies
 International Studies
 Latin American and Caribbean Studies
 Middle Eastern and North African Studies
 Sub-Saharan African Studies

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 students. The department advises several student clubs including Xi Omega (political science honor society), Phi Alpha Delta (pre-law honor society), Model United Nations Club, College Democrats, College Republicans, Lambda Alpha Epsilon (American Criminal Justice Association), and Alpha Phi Sigma (national criminal justice honor society).

Each year the department holds an awards ceremony to recognize students' achievements.

Special admission requirements: To declare a major in political science, criminal justice, organizational leadership, or international studies, students – including transfer students – must have earned a GPA of at least 2.50 in all prior college work. First-semester students who wish to declare a major in one of the above programs must have an ACT composite score of at least 21 or an SAT score of at least 990.

Students with less than 2.5 cumulative GPA seeking to declare the organizational leadership major must first be admitted to the pre-LDR major. Students in the pre-major who successfully complete 12 credit hours with a GPA of 2.5 or above may request to be admitted into the major.

You should also know: Students majoring or minoring in political science, international studies, or criminal justice must earn at least a C- in each course counted as part of the major or minor. Students majoring in organizational leadership must earn a minimum of a 2.00 GPA in all major required courses in addition to the university overall 2.0 GPA requirement. Students can also complete a bachelor's degree in criminal justice in a fully online format. For more information, contact Educational Outreach.

Political Science, Criminal Justice, and Organizational Leadership Majors

Bachelor of Arts with a major in Political Science

The major in political science provides a comprehensive understanding of politics. It does so by acquainting students with the literature of the discipline in six different areas (American politics, comparative politics, international politics, law, political theory, and public policy) and by equipping students with methodological tools necessary for sound and critical analysis of political institutions of behavior and of processes by which public policy is formed. The faculty also seek to engage students in a partnership of research and other scholarly endeavors.

There are 36 hours of required classes for the Bachelor of Arts. In addition, students are required to complete 15 hours of political science electives.

Degree Requirements: B.A. – Political Science

Courses		Credits
PSC 100/100H	American Politics -- OR --	3
PSC 101	State and Local Politics	
PSC 102	Comparative Politics	3
PSC 103/103H	International Politics	3
PSC 110/110H	Political Ideas	3
PSC 215	Scope and Methods (taken prior to 96 hours)	3
PSC 301	American Political Institutions	3
PSC 310	Political Behavior	3
PSC 372	Modern Political Theory	3
PSC 403	Politics in Action	3
PSC 410	International Political Economy	3
PSC 465	Democratization	3
PSC 486	Conflict and Security	3
Select five 300/400-level PSC courses		15
TOTAL CREDITS		51

Additional program information:

- The Bachelor of Arts is conferred upon those students completing all requirements for the major or minor in political science and other NKU requirements for the degree, which includes a minimum GPA of 2.50 in all major coursework and earning at least a *C-* in each course counted.
- Only two courses meeting these degree requirements may also be used to satisfy general education requirements or to meet a minor or focus (with the exception of the pre-law focus) when the accompanying major is within the department.
- PSC 499 and PSC 496 cannot count toward secondary requirements.

Bachelor of Arts with a major in Criminal Justice

The major consists of a 24-credit-hour core and 24 credit hours of additional requirements. Core courses provide a conceptual understanding of criminal justice institutions and processes, theories of crime and punishment, ethics, and social science research methods. Rather than training individuals for a particular occupation through instruction in specific vocational skills, the program offers a broad, liberal education focused on the cultivation of analytical and creative thought and on the ability to read, write, and speak effectively.

The degree is also available in a fully online format; interested students should contact Educational Outreach for more information. JUS online course offerings in the fall and spring semesters are set up for students enrolled in our criminal justice online program. Thus, we *do not* give permits for face-to-face students to enroll in online restricted classes (those designated ONLR). However, depending on the enrollment numbers in the online restricted sections, and the incoming online student population, we may release some seats from the restricted sections to the online non-restricted sections (those designated ONL) immediately after the priority registration deadline and again just before classes begin. Students interested in the online section of a course must check myNKU for openings in the online non-restricted (ONL) section of those courses after priority registration and before classes begin.

Students majoring or minoring in criminal justice must earn at least a *C-* in each course counted as part of the major or minor. At least 24 hours of JUS courses must be earned in residence at NKU.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included

in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.A. – Criminal Justice

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 <i>Prerequisite: STA 205 or STA 212</i>	3
JUS 317	Perspectives on Crime <i>Prerequisite: STA 205 or STA 212</i>	3
JUS 400	Juvenile Justice	3
Select 24 JUS credit hours from the following; 15 credit hours must be at the 300 level or above.		
JUS 204	Criminal Investigation	
JUS 205	Criminal Evidence	
JUS 210	Legal Research	
JUS 231	Race, Gender, and Crime	
JUS 294	Topics: Justice Studies	
JUS 302	Criminal Law	
JUS 303	Criminal Procedure	
JUS 310	Police Management	
JUS 311	Police in the Community	
JUS 312	Institutional Corrections	
JUS 313	Rights of the Convicted	
JUS 319	Criminal Justice in Film	
JUS 320	Advanced Crime Scene Technology and Criminalistics	24
JUS 333	Careers in Criminal Justice	
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 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		48

Bachelor of Arts in Organizational Leadership

The organizational leadership program explores both theoretical and practical understandings of leadership. Students examine leadership in various types of organizations and across organizational levels and positions while recognizing that leadership is not necessarily position-bound, but based on building relationships and effectively addressing challenges in all types of human groups, communities, and settings. Emphasis is placed on leadership in team and group settings and developing personal and professional leadership capacities. The program offers the chance for students to evolve from understanding leadership as a solitary, authoritarian phenomenon to a process that is inclusive and collaborative. Students who successfully complete the organizational leadership program will be able to understand theory, think critically, navigate and creatively solve complex problems, examine and handle ethical issues, facilitate intentional change, communicate effectively, use contemporary tech-

nology, and appreciate diverse and global perspectives. Partnering organizational leadership requirements with a secondary area of study (minor or focus) aligned with educational and career objectives equips students to collaborate, lead, and adapt to future needs in an area of interest.

Degree completion in organizational leadership is available in the following program delivery modes: (1) traditional face-to-face classes; (2) the Program for Adult-Centered Education, an accelerated face-to-face evening program for adult learners; and (3) completely online. Online learning offers a flexible alternative, and PACE offers an accelerated evening format in Highland Heights and at the Grant County Center in Williamstown, Ky.

Students majoring in organizational leadership may not minor in an AACSB-accredited program. For questions about organizational leadership, email the program coordinator (orgleadearship@nku.edu).

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.A. – Organizational Leadership

Courses in Leadership		Credits
LDR 300	Foundations of Leadership	3
LDR 308	Leadership Development	3
LDR 310	Research Methods in Leadership <i>Prerequisite: STA 205, STA 212 or STA 213</i>	3
LDR 381	Organizational Ethics and Decision Making	3
LDR 382	Organizational Theory and Change	3
LDR 385	Teamwork in Organizations	3
LDR 394	Special Topics in Leadership	3
LDR 460	Leading in Diverse and Global Contexts	3
LDR 480	Organizational Leadership Capstone	3
Credits in Political Science, Criminal Justice and Organizational Leadership		27
Courses in Other Disciplines		Credits
PSY 340	Social Psychology <i>Prerequisite: PSY 100</i>	3
PSY 344	Industrial/Organizational Psychology <i>Prerequisite: PSY 100</i>	3
Credits in Other Disciplines		6
TOTAL CREDITS		33

Students with fewer than 60 hours credit at admission or major declaration must complete these foundation classes (four classes):

Foundation Courses		Credits
LDR 117	Introduction to Supervision	3
LDR 160	Leadership Around the World	3
LDR 205	Human Relations in Organizations	3
LDR 394	Special Topics in Leadership (This is in addition to the LDR 394 required for the major.)	3
TOTAL FOUNDATION CREDITS		12

The following leadership courses are available as electives: "LDR 396: Leadership Practicum" (variable credit one to 6 hours; repeatable for up to 9 hours), "LDR 315: Leading People in Organizations," and the option to repeat LDR 394 for up to 12 credit hours as long as topics differ. Students who are not required to complete the four foundation classes may also take "LDR 117: Introduction to Supervision," "LDR 160: Leadership around the World," and "LDR 205: Human Relations in Organizations" as elective

courses. Note: "LDR 160: Leadership Around the World" is also a Global Viewpoints Foundation of Knowledge course.

Political Science, Criminal Justice, and Organizational Leadership Minors

Minor in Criminalistics

This minor provides students with an understanding of the significant role that science is accorded in the criminal justice system, especially in criminal investigations and criminal trials. This minor is not permitted for criminal justice majors.

Requirements for Minor: Criminalistics		Credits
JUS 101	Introduction to Criminal Justice	3
JUS 204	Criminal Investigation	3
JUS 205	Criminal Evidence	3
JUS 231	Race, Gender, and Crime	3
JUS 303	Criminal Procedure	3
JUS 320	Advanced Crime Scene 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
Select 9 300/400-level JUS credit hours		9
TOTAL CREDITS		21

Minor in Organizational Leadership

Requirements for Minor: Organizational Leadership		Credits
LDR 300	Foundations of Leadership	3
LDR 308	Leadership Development	3
Select four additional LDR courses		12
TOTAL CREDITS		18

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
Select PSC credit hours at the 300 level or above		12
TOTAL CREDITS		21

Minor in Pre-Law

The pre-law minor may appeal to students who major in non-law-related fields and plan to apply to law school. It exposes them to legal courses before pursuing their professional education. The minor in pre-law does not guarantee successful admission into law school nor is it a prerequisite for law school.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Pre-Law		Credits
JUS 210	Legal Research	3
PSC 110	Political Ideas	3
PSC 304	Introduction to the Law <i>Prerequisite: PSC 102, PSC 103 or PSC 110</i>	3
PSC 305	The Judicial Process <i>Prerequisite: PSC 100, PSC 102, PSC 103 or PSC 110</i>	3
Select three courses from the following:		
PSC 307	Constitutional Law <i>Prerequisite: PSC 100, PSC 102, PSC 103 or PSC 110</i>	9
PSC 308	Civil Liberties <i>Prerequisite: PSC 100, PSC 102, PSC 103 or PSC 110</i>	
PSC 375	Perspectives on Law <i>Prerequisite: PSC 100, PSC 102, PSC 103 or PSC 110</i>	
PSC 394	Special Topics	
PSC 480	International Law <i>Prerequisite: PSC 100, PSC 102, PSC 103 or PSC 110</i>	
PSC 496	Internship in Political Science	
JUS 203	The Criminal Court Systems <i>Prerequisite: JUS 101</i>	
JUS 205	Criminal Evidence <i>Prerequisite: JUS 101</i>	
JUS 231	Race, Gender, and Crime	
JUS 302	Criminal Law	
JUS 303	Criminal Procedure	
JUS 313	Rights of the Convicted	
PHI 330	Philosophy and the Law	
TOTAL CREDITS		21

Minor in Public Service

The Public Service minor is designed for students interested in careers such as: service delivery or management in a local, state or federal agency; policy making, implementation and evaluation; nonprofit management and community planning and development. Some courses are offered online, and 500-level courses completed with a grade of *A* or *B* may be counted toward a Master of Public Administration at NKU. The public service practicum (PAD 498) is an opportunity to earn up to 6 credit hours while applying classroom learning to a practical setting in a government, nonprofit or related organization in the northern Kentucky/Greater Cincinnati region, the state capital of Frankfort, or another locale.

Requirements for Minor: Public Service		Credits
PAD 300	Introduction to Public Administration	3
PAD 403	Public Policy --OR--	3
PSC 403	Politics in Action	
Select 9 credit hours from the following:		
PAD 401	Human Resource Management	9
PSC 405	Politics of Money	
PAD 412	Administrative Law	
PAD 420	Managing the Not-for-Profit Organization	
PAD 511	Budgeting Techniques and Applications	
PAD 560	Planning and Community Development	
PAD 394	Special Topics in Public Administration	
PAD 496	Internship in Public Administration (1-5)	
PAD 498	Public Service Practicum (1-6)	
TOTAL CREDITS		15

Political Science, Criminal Justice, and Organizational Leadership Undergraduate Certificates

Certificate in Organizational Leadership

Requirements for Certificate: Organizational Leadership		Credits
LDR 117	Introduction to Supervision	3
LDR 205	Human Relations in Organizations	3
LDR 308	Leadership Development	3
Select two courses from the following:		
LDR 300	Foundations of Leadership	6
LDR 381	Organizational Ethics and Decision Making	
LDR 382	Organizational Theory and Change	
LDR 385	Teamwork in Organizations	
LDR 460	Leading in Diverse and Global Contexts	
TOTAL CREDITS		15

Focus in Pre-Law

Students considering law careers may choose a pre-law minor or may simply wish to fulfill their requirement for a pre-law focus by taking any four of the political science courses listed below. Students must complete an introductory PSC class as a prerequisite. Students cannot double-dip courses between their political science major and pre-law focus.

Requirements for Focus: Pre-Law		Credits
Select any four courses from the following:		
PSC 304	Introduction to the Law	12
PSC 305	The Judicial Process	
PSC 307	Constitutional Law	
PSC 308	Civil Liberties	
PSC 480	International Law	
PSC 375	Perspectives on Law	
Total Program Credits		12
Additional Prerequisite Credits		3
TOTAL CREDITS		15

Department of Psychological Science

Location: Mathematics-Education-Psychology Center 301

Telephone: 859-572-5310 **Fax:** 859-572-6085

Email Address: psychology@nku.edu

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

Department Chair: Jeffrey Smith

Other Key Personnel:

Assistant Chair: Angela Lipsitz

Retention Specialist: Kathleen O'Connor

Department Coordinator: Debbie Kelly

Secretary: Lynne Fuhrmann

Full-Time Faculty: Bill Attenweiler, Mark Bardgett, Robin Bartlett, Paul Bishop, Kim Breitenbecher, Kathleen Fuegen, Perilou Goddard, Rebecca Hazen, David Hogan, Doug Krull, Angela Lipsitz, George Manning, Cecile Marczynski, Philip J. Moberg, Kathleen O'Connor, Jeff Smith, Jim Thomas

Undergraduate Programs:

Majors:

Bachelor of Arts

Psychological Science

Bachelor of Science

Psychological Science

Minors:

Evolutionary Studies (see interdisciplinary section of catalog)

Neuroscience (see interdisciplinary section of catalog)

Psychological Science

Thinking about the discipline: A degree in psychological science opens the door to one of the most challenging and rewarding professional fields today. The psychological science major is designed to provide students with flexibility in the selection of courses to meet their individual interests and career goals. Psychological science graduates have the skills and tools they need to be successful in a variety of challenging careers in mental health, business, and industry. Students will also be prepared for advanced graduate study.

Special opportunities for our students: Students may have the opportunity to conduct research with faculty and present it at international, national, or regional conferences. Honors in psychological science can be earned by students who conduct research with a faculty member and meet the academic qualifications. Students who meet the criteria can be admitted into the NKU chapter of Psi Chi, the international honor society in psychology. Any student at the university may join the Psychology Club. These organizations are for students who want to become more involved with the Department of Psychological Science and with the field of psychology in general. They offer a mix of educational, service, and social activities to enhance the academic experience of the psychological science student. The department also facilitates student participation in practicum experiences.

Honors in Psychology

The Honors in Psychology (HIP) program is designed to provide an enhanced learning experience for outstanding psychological science undergraduates. Each HIP student will collaborate with a faculty mentor to design, conduct, analyze, document, and present an original empirical study in a two-semester sequence. In the process, students should develop or refine a variety of skills that will be useful in graduate school and their future careers.

To be eligible for the HIP program, students must have (a) a declared major in psychological science; (b) a minimum of 45 earned credit hours; (c) a minimum overall GPA of 3.5; (d) at least two semesters remaining prior to graduation; and (e) a minimum grade of *B* in PSY

100, STA 205, PSY 210, and PSY 210L. Students who are currently enrolled in PSY 210 and PSY 210L at the time of application may be admitted provisionally to HIP, but they may not begin the HIP research project until these courses are completed with the required minimum grade in each. HIP students are not required to participate in the university honors program. However, HIP students who are enrolled in the honors program may, with the permission of the honors director, use the HIP project as an honors capstone experience. Final admission into HIP depends on students identifying a psychological science faculty mentor who agrees to work with them on their project. This agreement requires a written contract signed by the student, faculty mentor, HIP coordinator, and chair of the Department of Psychological Science, and registration for 3 credit hours in PSY 497 (Honors Project in Psychology) and HNR 490 (if the student plans to use the project in partial fulfillment of the requirements of the honors minor) for two semesters. Contact the Department of Psychological Science for more detailed information about Honors Psychology.

Special graduation requirements:

1. To graduate, students majoring in psychological science must have a grade of *C-* or better in all courses applied toward certification of the major or minor, as well as an overall 2.00 GPA in the discipline. This includes courses listed below for tracks A and B on each of the two degree programs.
2. Psychological science majors are required to participate in a standardized assessment test given by the department prior to graduating. This is in addition to the university's graduation requirements.
3. Transfer students must complete at least half of their required coursework in psychological science at NKU.

Psychological Science Majors

Bachelor of Arts and Bachelor of Science with a major in Psychological Science

The psychological science major is designed to provide students with flexibility in the selection of courses to meet their individual interests and career goals. Students must meet with a psychological science faculty advisor during the first semester following the declaration of psychological science as their major to design a program of coursework based on their individual needs. All students 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 psychological science majors must complete the requirements listed below for the major plus the additional credit hours required for either the Bachelor of Arts or the Bachelor of Science degree.

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

Core Courses	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 for Psychology Majors	1
PSY 305 Psychological Testing and Measurement	3
PSY 311 Biopsychology	3
PSY 321 Lifespan Development	3
PSY 337 Animal Learning	3
PSY 338 Cognitive Processes	3
PSY 340 Social Psychology	3
PSY 333 Abnormal Psychology	3
Select five PSY courses (must total at least 13 credit hours). At least three of these courses must be at the 300 or 400 level. Optional two-credit-hour laboratory classes also may be included in this category.	
Total Elective Credits	13
Total Core Credits	46
Additional B.A. Credits	3-6
Additional B.S. Credits	7-8
TOTAL CREDITS FOR B.A.	49-52
TOTAL CREDITS FOR B.S.	53-54

Bachelor of Arts – Additional Requirements

Students who wish to complete the requirements for the Bachelor of Arts in psychological science must complete either track A or B listed below:

TRACK A	Credits
A minimum of 6 credit hours in the same foreign language or its equivalent. This requirement is in addition to current general education requirements, so students cannot use these foreign language courses to meet the Foundation of Knowledge Culture and Creativity requirement.	6
TRACK B	Credits
Successful completion of 3 credit hours in a study-abroad program approved by the NKU Office of Education Abroad. The course does not have to be in psychology. If the study abroad course is in psychology, then it may also count as an elective for the major.	3

Bachelor of Science – Additional Requirements

Students who wish to complete the requirements for the Bachelor of Science in psychological science must complete either track A or B listed below:

Track A	Credits
Select one college-level MAT/STA course in addition to STA 205	3
NOTE: STA 212 and STA 213 cannot satisfy this requirement.	
Select two courses from the following:	
PSY 309L Psychology of Perception Laboratory	
PSY 311L Biopsychology Laboratory	
PSY 321L Developmental Science Laboratory	4
PSY 338L Cognitive Processes Laboratory	
PSY 340L Social Psychology Laboratory	
PSY 465L Health Psychology Laboratory	
NOTE: Laboratory 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 laboratory. The laboratory classes listed here may also count as elective classes toward the major requirements.	

Track B	Credits
Select 6 300/400/500-level credit hours in statistics	6
Select one course from the following:	
PSY 309L Psychology of Perception Laboratory	
PSY 311L Biopsychology Laboratory	
PSY 321L Developmental Science Laboratory	2
PSY 338L Cognitive Processes Laboratory	
PSY 340L Social Psychology Laboratory	
PSY 465L Health Psychology Laboratory	
NOTE: Laboratory 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 laboratory. The laboratory classes listed here may also count as elective classes toward the major requirements.	

Psychological Science Minor**Minor in Psychological Science**

The minor requires 24 credit hours in psychological science including "PSY 100: Introduction to Psychology" and any 21 additional credit hours in psychological science.

Department of Sociology, Anthropology, and Philosophy

Location: Landrum Academic Center 217C

Telephone: 859-572-5259 **Fax:** 859-572-6086

Email Addresses:

anthropology@nku.edu

archaeology@nku.edu

philosophy@nku.edu

sociology@nku.edu

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

Department Chair: Sharyn Jones

Other Key Personnel:

Department Coordinator: Mindy Berry

The Department of Sociology, Anthropology, and Philosophy is a multi-disciplinary department that houses its namesake programs as well as aging and society, ancient civilizations, archaeology, Celtic studies, Native American studies, and religious studies.

Sociology Programs

Location: Landrum Academic Center 217C

Telephone: 859-572-5259 **Fax:** 859-572-6086

Email Address: sociology@nku.edu

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

Sociology Coordinator: Joan Ferrante

Aging and Society Coordinator: Boni Li

Full-Time Faculty: Joan Ferrante, Nicole Grant, Kris Hehn, Boni Li, J. Robert Lilly, Jaime McCauley, Kristie Vise

Undergraduate Programs:

Major:

Bachelor of Science

Sociology

Criminology Track

General Sociology Track

Society, Environment and Technology Track

Minors:

Aging and Society

Sociology

Thinking about the discipline: The primary mission of the sociology program is to provide undergraduate students with the conceptual and applied skills to understand society and how social interactions and human activities are organized and structured. Sociology offers a perspective, and set of skills that develop and enhance students' abilities to observe and think critically about their own and other societies, to become more sensitive to behavioral and value differences among peoples, and to succeed in an information and knowledge economy. Sociology is also a discipline that welcomes and draws up insights from any disciplines.

The program offers a major in sociology leading to the Bachelor of Science. There are six broad career areas that students of sociology may choose to enter: nonprofit, government, business, education/continuing education, graduate school, and self-employment. Students can also minor or focus in sociology.

Special opportunities for our students: Among the many experiences in which students of sociology can participate are opportunities to do co-ops and internships, engage in summer service Native American reservations in South Dakota, engage in class projects that address social

issues, participate in research studies, and publish articles and essays collaboratively with faculty.

There are several vibrant student clubs associated with the sociology program: the Sociology Club, National Sociology Honor Society, First Nations Student Organization, and Kiksuya. Each year NKU's sociology program presents the outstanding student in sociology award, outstanding student in applied sociology and outstanding student.

It is possible to earn a sociology major or minor taking a combination of online and evening classes and two (for minor) or three (for major) core courses face-to-face. In addition to the major and minor, there is also a focus that consists of any four sociology courses taken at the 300/400/500 level. It is possible to complete a focus in sociology online.

Sociology Majors

Bachelor of Science with a major in Sociology

The major in sociology requires the successful completion of 33 credit hours in the discipline, 18 of which must be at the 300/400 level. All majors must take introduction to sociology, a 3-credit hour course that counts for general education credit, but not toward the 33 hours needed to complete the sociology major.

Students majoring in sociology are required to complete a 21-credit-hour core and choose four electives or one course each from a list of four options. In addition, sociology majors must choose one of three tracks: general sociology; criminology; or society, environment, and technology. Consult with your advisor about which track fits best with academic and career goals. The choice of tracks affects choice of elective courses.

You should also know: A grade of at least a *C* (not *C-*) must be earned in the core courses, and a GPA of at least 2.00 must be earned in all courses that comprise the major.

All students majoring in sociology are required to prepare a portfolio for "SOC 494: Seminar: Sociology Senior Seminar." The table of contents must specify the title of each entry and the course for which the assignment was written. The portfolio must include a letter discussing its contents. The contents must include five assignments that, when taken together, demonstrate that the student 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

SOC 100	Introduction to Sociology	3
TOTAL PREREQUISITE CREDITS		3
Core Courses in Sociology		Credits
Select two courses from the following:		
SOC 319	Managing and Analyzing Databases	
SOC 320	Social Research	
SOC 322	Qualitative Research Methods	6
SOC 330	Classical Sociological Theory	3

SOC 334	Contemporary Sociological Theory	3
Select one course from the following:		
SOC 303	Social Psychology	
SOC 305	Criminology	3
Select one course from the following:		
SOC 307	Social Stratification	
SOC 340	Population	3
SOC 494	Seminar: Sociology Senior Seminar	3
TOTAL CORE CREDITS		21

SOC 364	Women and Men in Society	
SOC 369	Sex Crimes	
SOC 425	Political Sociology	
People, Places, and the Lifecycle		
SOC 350	Women and Crime	3
Social Issues and Social Change		
SOC 305	Criminology	3
TOTAL TRACK CREDITS		12
Total Core Credits		21
TOTAL CREDITS		33

General Sociology Track		Credits
Social Institutions – select one course from the following:		
SOC 308	Social Organization	
SOC 315	Marriage and the Family	
SOC 355	Sociology of the Environment	
SOC 357	Guns and Society	3
SOC 430	Sociology of Religion	
SOC 450	Medical Sociology	
SOC 488	Sociology of Law	
Power and Inequality – select one course from the following:		
SOC 300	Race and Ethnic Relations	
SOC 301	World Patterns of Race Ethnicity	
SOC 307	Social Stratification	
SOC 335	Popular Culture	3
SOC 364	Women and Men in Society	
SOC 369	Sex Crimes	
SOC 425	Political Sociology	
SOC 485	Sociology of Global Issues	
People, Places, and the Lifecycle – select one course from the following:		
SOC 202	Juvenile Delinquency	
SOC 303	Social Psychology	
SOC 318	Sociology of Work and Occupations	
SOC 340	Population	
SOC 342	Sociology of Aging	
SOC 345	Native American Social Issues	3
SOC 350	Women and Crime	
SOC 400	Urban Society	
SOC 435	Sociology of Sexualities	
SOC 480	Global Aging Issues and Policies	
Social Issues and Social Change – select one course from the following:		
SOC 205	Current Social Issues	
SOC 305	Criminology	
SOC 332	Collective Behavior and Social Movements	
SOC 360	Technology and Social Change	3
SOC 380	Elite Deviance	
SOC 381	Deviance and Social Control	
SOC 415	Sociology of Planning and Development	
TOTAL TRACK CREDITS		12
Total Core Credits		21
TOTAL CREDITS		33

Criminology Track		Credits
Social Institutions		
SOC 357	Guns and Society	3
Power and Inequality – select one course from the following:		
SOC 300	Race and Ethnic Relations	
SOC 301	World Patterns of Race Ethnicity	
SOC 307	Social Stratification	
SOC 335	Popular Culture	3

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	
SOC 301	World Patterns of Race Ethnicity	
SOC 307	Social Stratification	
SOC 335	Popular Culture	3
SOC 364	Women and Men in Society	
SOC 425	Political Sociology	
SOC 485	Sociology of Global Issues	
People, Places and Lifecycle		
SOC 340	Population	3
Social Issues and Social Change – select one course from the following:		
SOC 360	Technology and Social Change	
SOC 415	Sociology of Planning and Development	3
TOTAL TRACK CREDITS		12
Total Core Credits		21
TOTAL CREDITS		33

Sociology Minors

Minor in Sociology

A grade of at least a *C* (not *C-*) must be earned in the core courses, and a GPA of at least 2.00 must be earned in all courses that comprise the minor.

Requirements for Minor: Sociology		Credits
Prerequisites		
SOC 100	Introduction to Sociology	3
Total Prerequisite Credits		3
Select one course from the following:		
SOC 319	Managing and Analyzing Databases	
SOC 320	Social Research	3
SOC 322	Qualitative Research Methods	
Select one course from the following:		
SOC 330	Classical Sociological Theory	3
SOC 334	Contemporary Sociological Theory	
Select one course from the following:		
SOC 303	Social Psychology	3
SOC 305	Criminology	
Select one course from the following:		
SOC 307	Social Stratification	3
SOC 340	Population	
Select 6 credit hours of SOC courses		6
TOTAL CREDITS		21

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 medical and related health issues and emphasize how sociological perspectives help frame problems specific to the 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 321 Medical Anthropology	
ANT 375 Anthropology of Aging	
SOC 342 Sociology of Aging	9
SOC 340 Population	
SOC 450 Medical Sociology	
SOC 499 Readings: Sociology	
Select one course from the following:	
SOC 308 Social Organization	
SOC 315 Marriage and the Family	
SOC 320 Social Research	
SOC 335 Popular Culture	3
SOC 360 Technology and Social Change	
PHI 200 Ethics	
PHI 220 Healthcare Ethics	
Select one course from the following:	
NRS 413 Aging in Today's Society	
PSY 321 Lifespan Development	
HSR 314 Death, Dying and Grief	3
HSR 306 Introduction to Gerontology	
Select two electives from the aging category	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: Douglas Hume

Other Key Personnel:

Archaeology Director: Judy Voelker

Center for Applied Anthropology Director: Douglas Hume

Museum Director: Judy Voelker

Full-Time Faculty: Douglas W. Hume, Sharyn Jones, Charlotte Neely, Michael J. Simonton, Judy Voelker, Monica Wakefield, Zac Hruby

Undergraduate Programs:

Major:

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 lan-

guage 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 Belize, Thailand, Ireland, and Fiji.

There are several vibrant student clubs associated with the anthropology program at NKU: the Student Anthropology Society, Lambda Alpha National Anthropology Honor Society, First Nations Student Organization, Kiksuya, and Tuath an Ard Tíre Ardaí: The Celtic Studies Club. Each year the anthropology program presents the outstanding student in anthropology award and the award for academic excellence in anthropology.

You should also know: Students must earn at least a C(2.00) in the core courses, and a C(2.00) average in all anthropology courses counting for the major.

Anthropology Majors

Bachelor of Arts with a major in Anthropology

Degree Requirements: B.A. – Anthropology

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Prerequisites		
ANT 100	Introduction to Cultural Anthropology -- OR --	3
ANT 100H	Honors Introduction to Cultural Anthropology	
ANT 110	Introduction to Archaeology	3
TOTAL PREREQUISITE CREDITS		6
Courses in Anthropology		
ANT 202	Introduction to Physical Anthropology	3
ANT 202L	Introduction to Physical Anthropology Laboratory	1
ANT 210	Introduction to Archaeological Methods and Theory	3
ANT 275	Language and Culture	3
ANT 312	Social Organization	3
ANT 328	Contemporary Issues in Anthropology	3

ANT 401	Culture Theory -- OR --	3
ANT 410	Archaeological Theory	
ANT 480	Anthropology Capstone	0
Topical – select two courses from the following, at least one of which must be 300 level:		
ANT 114	Great Archaeological Sites	
ANT 201	World Cultures	
ANT 231	Modern American Indians	
ANT 301	World Patterns of Race and Ethnicity	
ANT 311	Museums in Contemporary Society	
ANT 318	Prehistoric Ecology	
ANT 320	Religion and Culture	
ANT 321	Medical Anthropology	
ANT 330	Women, Gender, and Culture	
ANT 331	Women in Prehistory	
ANT 336	Historical Archaeology	
ANT 345	Environmental Anthropology	
ANT 350	North American Archaeology	6
ANT 352	Archaeology of Mesoamerica	
ANT 358	Art and Culture	
ANT 370	Celtic Europe	
ANT 371	Psychological Anthropology	
ANT 372	Peasant Societies	
ANT 374	Celtic and Viking Archaeology	
ANT 375	Anthropology of Aging	
ANT 380	Origins of Civilization	
ANT 381	European Archaeology	
ANT 382	Visual Anthropology	
ANT 386	Economy, Wealth and Culture	
ANT 392	Research: Archaeology	
ANT 394	Topics: Anthropology	
Ethnographic – select two courses from the following, at least one of which must be 300 level:		
ANT 230	North American Indians	
ANT 245	Peoples of Latin America and the Caribbean	
ANT 270	Native Australia and Oceania	6
ANT 309	Peoples of Africa	
ANT 360	Mesoamerican Indians	
ANT 385	Peoples of East and Southeast Asia	
Field Methods – select one course from the following:		
ANT 396	Museum Internship	
ANT 308	Cultural Resource Management	
ANT 315	Archaeological Excavation Methods	3
ANT 325	Applied Anthropology	
ANT 340	Ethnographic Methods and Research	
ANT 365	Ethnographic Field Methods	
Laboratory Methods – select one course from the following:		
ANT 307	Museum Methods	
ANT 342	Quantitative Methods in Anthropology	3
ANT 355	Archaeology Laboratory Analysis	
TOTAL CREDITS		37

Anthropology Minors

Minor in Anthropology

Requirements for Minor: Anthropology		Credits
ANT 100	Introduction to Cultural Anthropology -- OR --	3
ANT 100H	Honors Introduction to Cultural Anthropology	
ANT 110	Introduction to Archaeology	3

ANT 202	Introduction to Physical Anthropology	3
ANT 202L	Introduction to Physical Anthropology Laboratory	1
ANT 210	Introduction to Archaeological Methods and Theory	3
ANT 275	Language and Culture	3
Select two 300- 400-level ANT courses		6
TOTAL CREDITS		22

Minor in Archaeology

Archaeology is the study of past peoples' ways of life through the excavation and analysis of artifacts. By studying past societies and cultures, archaeology explores the many avenues throughout time of what it means to be human. The archaeology minor is housed within the anthropology program.

Students who graduate with an archaeology minor are prepared both for career opportunities and for graduate work in anthropology. Because an archaeology focus is already available within the anthropology major, anthropology majors may not minor in archaeology.

NKU provides students with opportunities to do archaeology outside the classroom and develop résumé-worthy skills important in the job quest. Among the many experiences in which archaeology minors can participate are opportunities to go on archaeological digs, do laboratory analysis, develop museum exhibits, and work for local archaeology companies.

Requirements for Minor: Archaeology		Credits
ANT 100	Introduction to Cultural Anthropology	3
ANT 110	Introduction to Archaeology	3
ANT 210	Introduction to Archaeological Methods and Theory	3
Select one course from the following:		
Select one course from the following:		
ANT 307	Museum Methods	
ANT 315	Archaeological Excavation Methods	3
ANT 355	Archaeology Laboratory Analysis	
Select three courses from the following:		
ANT 114	Great Archaeological Sites	
ANT 307	Museum Methods (if not used as methods course)	
ANT 308	Cultural Resource Management	
ANT 315	Archaeological Excavation Methods (if not used as methods course)	
ANT 318	Prehistoric Ecology	
ANT 331	Women in Prehistory	9
ANT 336	Historical Archaeology	
ANT 350	North American Archaeology	
ANT 352	Archaeology of Mesoamerica	
ANT 355	Archaeology Laboratory Analysis (if not used as methods course)	
ANT 374	Celtic and Viking Archaeology	
ANT 380	Origins of Civilization	
ANT 392	Research: Archaeology (up to 3 credit hours)	
ANT 410	Archaeological Theory	
ANT 515	Advanced Archaeological Excavation Methods	
TOTAL CREDITS		21

Philosophy Programs

Location: Landrum Academic Center 217C

Telephone: 859-572-5259 **Fax:** 859-572-6086

Email Address: philosophy@nku.edu

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

Program Coordinator: Rudy Garns

Full-Time Faculty: Gary Blahnik, Yaw Frimpong-Mansoh, Rudy Garns, Nancy Hancock, Dennis Miller, Terry Pence

Undergraduate Programs:

Major:

Bachelor of Arts

Philosophy

Minors:

Applied Philosophy

Philosophy

Interdisciplinary Minor: (see interdisciplinary section of catalog)

Religious Studies

Thinking about the discipline: Philosophy, 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.

NKU offers a bachelor's degree in philosophy designed to meet the needs of students who want to pursue graduate study in philosophy leading to a college teaching career or an applied philosophy position. But a bachelor's degree in philosophy is also a popular major for students interested in business, education, government, the nonprofit sector, technical writing, the health professions (administrators or practitioners), ethics consulting, the law, or religious ministry.

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 one 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 per-

sonal." These small classes help students to participate in the study of questions of philosophical importance, hone writing and analytical skills, and receive more attention from their professors. Students also have the opportunity to participate in intercollegiate competition in the ethics bowl and become a member of the national honor society in philosophy, Phi Sigma Tau. A student philosophy club is active, and the program offers monthly events like a philosophers' café where issues of contemporary interest are raised in a public forum, and a film and philosophy series where feature films with philosophical themes are screened and discussed. Each year NKU's philosophy program presents the outstanding senior in philosophy award.

You should also know: At least 20 percent of the total required hours must be taken at NKU. Students must make a C- or better in all courses chosen to meet the core requirements.

Philosophy Major

Bachelor of Arts with a major in Philosophy

The major in philosophy requires a total of at least 30 credit hours, six required core classes (18 credit hours) and a course from the perspectives category (3 credit hours). At least 18 credit hours must be 300 level or above. No more than 3 credit hours at the 100 level will count toward the required hours. Students must make a C- or better in all courses. At least 20 percent of the total required hours must be taken at NKU.

Degree Requirements: B.A. – Philosophy

Courses		Credits
PHI 265	Logic	3
PHI 280	History of Classical and Medieval Philosophy	3
PHI 285	History of Modern and Contemporary Philosophy	3
PHI 305	Existentialism	3
PHI 315	Knowledge and Reality	3
PHI 375	Ethical Theory	3
Diverse Philosophical Perspectives – select at least one course from the following:		
PHI 304	Zen	
PHI 312	Eastern Philosophy	
PHI 309	Global Ethics	3
PHI 311	Philosophy of Women	
PHI 324	Africana Philosophy	
Select three PHI courses		9
TOTAL CREDITS		30

Philosophy Minors

Minors in Philosophy and Applied Philosophy

The minor in philosophy requires 21 credit hours of PHI classes with at least 6 credit hours at the 300 level or above. Students must make a C- or better in all courses.

The minor in applied philosophy requires 21 credit hours of PHI classes with at least six credit hours at the 300 level or above and must include "PHI 396: Internship: Applied Philosophy." Students must make a C- or better in all courses.

Department of Theatre and Dance

Location: Fine Arts Center 205

Telephone: 859-572-6362 **Fax:** 859-572-6057

Email Addresses:

Dance – dance@nku.edu

Theatre – theatre@nku.edu

Theatre and Dance Box Office – boxoffice@nku.edu

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

Department Chair: Kenneth Jones

Other Key Personnel:

Assistant Chair: Michael W. Hatton

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: Heather Britt, Ronnie Chamberlain, Corrie Danielely, Sandra Forman, Daryl L. Harris, Michael W. Hatton, Christine Jones, Kenneth Jones, Robert Kerby, Michael E. King, Terry D. Powell, Brian Robertson, Ronald A. Shaw, Damon Stevens, Jamey Strawn

Undergraduate Programs:

Majors:

Bachelor of Arts

Theatre

World Cultures and Theatre

Bachelor of Fine Arts

Theatre

Acting Track

Dance Track

Musical Theatre Track

Playwriting Track

Design or Technology

Design or Technology Track

Rock and Roll/Concert Technology Track

Stage Management

Stage Management Track

Minors:

Dance

Theatre

Thinking about the discipline: The NKU Department of Theatre and Dance is a student-centered program whose focus is on undergraduate training. The department offers a variety of degrees that will suit each student's unique career goals. In addition, the department provides a variety of performance and production experiences that will train students to successfully enter a theatre profession.

Students who have graduated from the program are currently at work in Broadway shows, national tours, regional theatres, cruise ships, Disney productions, Cirque du Soleil, television, and feature films. Students have also found success in careers outside of theatre and are working in K-12 education, law careers, business, marketing, and others.

The skills learned with a degree in theatre and dance help students maximize careers in which interaction with the public is necessary.

Special opportunities for our students: NKU offers students the opportunity to establish internships with several local professional theatre and performing arts groups as well as I.A.T.S.E. (stagehand union Local 5).

NKU offers scholarships to students based on auditions as well as GPA:

- **Incoming student scholarships** – 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 candidates or to qualified students already enrolled at any level with an overall 2.75 GPA.
- **Currently enrolled student scholarships** – To be considered for a scholarship, currently enrolled students with an overall 2.75 GPA must maintain good academic standing as detailed below, high visibility in the production program, and consistent contributions to departmental activities. To apply, complete the online application (<http://artscience.nku.edu/departments/theatre/current.html>).

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 capus/community/recruitment outreach programs. The Dance Troupe, the Improv Troupe, the Musical Theatre Tour Troupe, and the freshman-only Broadway Chorus Tour Troupe may be taken for up to 6 credit hours. Tour troupes hold auditions as a condition of acceptance into a troupe. Tour 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 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		
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 the Musical Theatre	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 the Musical Theatre	3
TAR 235	Vocal Techniques for the Actor I	1
TAR 310	Acting III	3
TAR 311	Auditions	3
TAR 312	Voice Development for the Actor II	3
TAR 316	Acting Seminar I	3
TAR 325	Musical Theatre Performance II	3
TAR 335	Vocal Techniques for the Singing Actor II	
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
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 Dance 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	Theatre History	3
TAR 347	Dramatic Literature	3
TAR 348	Theatre History and Society	3
DAN 427	Dance History	3
TAR 441	Special Problems in Theatre 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 the 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 in Theatre Technology	3-9
TAR 466	Costume Construction II	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 477	The Business of Theatre	1
DAN 375	Choreography	3
Group VI (Playwriting and Reviewing)		
TAR 380	Playwriting	3
TAR 481	Special Problems in Theatre: Playwriting/Criticism	3-9
TAR 482	Screenwriting	3
Group VII (Production Hours and Independent Study)		
TAR 390-391, 490, 491	Production Credits (1 credit hour each)	1
TAR 495	Senior Project	1
TAR 498-499	Individual Studies in Theatre	1-6

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	1
TAR 110	Acting I	3
TAR 118	Stage Makeup	3
TAR 160	Stagecraft	2
TAR 160L	Stagecraft Laboratory	1
TAR 340	Playscript Analysis	3
TAR 346	Theatre History	3
TAR 347	Dramatic Literature	3

Select 3 TAR credit hours from group II or III	3
Select 15 TAR/DAN credit hours in groups I, II, III, IV, V, VI or VII	15
TAR 390, 391, Production Credits 490, 491	3
TOTAL CREDITS	40

A minor or focus 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	1
TAR 245 Introduction to Theatre in World Cultures	3
TAR 348 Theatre History and Society	3
TAR 400 Theatre in World Cultures Styles Studio	3
TAR 160 Stagecraft	2
TAR 160L Stagecraft Laboratory	1
TAR 390, 391, Production Credits 490, 491 1 production credit must be in a departmentally-approved organization/venue (for example, museum)	3
Foreign language (may fulfill culture and creativity general education requirement)	3
Study abroad (two opportunities outside student's native culture)	6
TAR 496 Theatre in World Cultures Capstone	3
Select 15 TAR/DAN credit hours or required theatre in world cultures electives	15
TOTAL CREDITS	43

A minor or an area of focus is required.

Bachelor of Fine Arts

The B.F.A. is a more intensive program of study for the potential professional. Acceptance into the B.F.A. program is earned through a process of application, interview, and audition (performers) or portfolio submission (design and technology, playwriting, and stage management). The B.F.A. requires active involvement in the department for a minimum of four semesters after acceptance into B.F.A. candidacy. Some exceptions to this residency rule may be made for transfer students.

The B.F.A. requires completion of a common core of courses. Students must also either complete a track – 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 focus is not required in the B.F.A.

Degree Requirements: B.F.A. – Theatre

Core Courses	Credits
TAR 104 Introduction to NKU Theatre and Dance	1
TAR 110 Acting I	3
TAR 118 Stage Makeup	3
TAR 160 Stagecraft	2
TAR 160L Stagecraft Laboratory	1
TAR 340 Playscript Analysis	3
TAR 346 Theatre History	3
TAR 347 Dramatic Literature	3
TAR 477 The Business of Theatre	1
TAR 495 Senior Project	1
TAR 390, 391, Production Credits 490, 491	3
Select 3 TAR credit hours from group II or III	3
TOTAL CORE CREDITS	27

Acting Track	Credits
DAN 120 Ballet I (or another approved dance course)	3
TAR 114 Voice Development for the Actor	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
Select two courses from the following:	
TAR 316 Acting Seminar I	
TAR 410 Styles of Acting	
TAR 411 Special Problems: Theatre Acting	3
TAR 415 The One-Person Show	
TAR 416 Acting Seminar II	
TAR 417 Acting Shakespeare	
Select 6 TAR/DAN credit hours in groups I, II, III, IV, V, VI, VII	6
TOTAL TRACK CREDITS	39
Total Core Credits	27
TOTAL CREDITS	66

Dance Track	Credits
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	3
DAN 224 Tap Dance I	
Select one course from the following:	
DAN 321 Modern Dance II	
DAN 322 Jazz Dance II	3
DAN 324 Tap Dance II	
DAN 323 Physiology of Dance	3
DAN 326 Advanced Dance Seminar I	2
DAN 375 Choreography	3
DAN 426 Advanced Dance Seminar II	2
DAN 427 Dance History	3
DAN 428 Special Problems in Dance	3
Select 9 TAR/DAN credit hours from groups I, IV, V, VI	9
TOTAL TRACK CREDITS	42
Total Core Credits	27
TOTAL CREDITS	69

Musical Theatre Track	Credits
TAR 114 Voice Development for the Actor I (may be substituted with TAR 312 Voice Development for the Actor II or a voice course at the 300 level or above)	3
TAR 130 Musical Skills for the Musical Theatre I	3
TAR 210 Acting II	3
TAR 225 Musical Theatre Performance I	3
TAR 230 Musical Skills for the Musical Theatre	3
TAR 235 Vocal Techniques for the Actor I (three	3

semesters for 1 credit per semester)		
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 (three semesters for 1 credit per semester)	3
Select 12 TAR/DAN credit hours in groups I, II, III, IV, V, VI, VII (6 of these hours must be in dance)		12
TOTAL TRACK CREDITS		42
Total Core Credits		27
TOTAL CREDITS		69

Playwriting Track		Credits
ENG 308	Shakespeare I	3
ENG 309	Shakespeare II	3
Select one 300/400 level ENG literature or writing course, not to include ENG 308 or ENG 309		
TAR 370	Directing	3
TAR 380	Playwriting	3
TAR 442	Dramatic Theory and Criticism	3
TAR 481	Special Problems in Theatre: Playwriting/Criticism	6
TAR 482	Screenwriting	3
TAR 498	Individual Studies in Theatre	3
Select 6 TAR/DAN credit hours in groups I, II, III, IV, V, VI, VII		6
TOTAL TRACK CREDITS		36
Total Core Credits		27
TOTAL CREDITS		63

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

Core Courses		Credits
TAR 104	Introduction to NKU Theatre and Dance	1
TAR 110	Acting I	3
TAR 118	Stage Makeup	3
TAR 160	Stagecraft	2
TAR 160L	Stagecraft Laboratory	1
TAR 340	Playscript Analysis	3
TAR 346	Theatre History	3
TAR 347	Dramatic Literature	3
TAR 477	The Business of Theatre	1
TAR 495	Senior Project	1
TAR 390, 391, 490, 491	Production Credits	3
Select 3 TAR credit hours from groups II or III		3
TOTAL CORE CREDITS		27
Design or Technology Track		Credits
TAR 165	Comparative Arts (fulfills one culture and creativity requirement in general education)	3
TAR 265	Fundamentals of Theatrical Design	3
TAR 364	Computer Graphics for the Stage	3
Fundamentals Series – select three courses from the following:		
TAR 260	Lighting Fundamentals	9
TAR 262/262L	Costume Construction with Laboratory	
TAR 277	Fundamentals of Sound Technology	
TAR 368	Theatrical Rendering and Model Building	
Foundations Series – select one course from the following:		
TAR 343	Costume History	

TAR 362	Drafting for Theatre	3
TAR 367	Stagecraft II	

Design Series – select three courses from the following:		
TAR 360	Scene Design I	9
TAR 363	Lighting Design	
TAR 366	Costume Design I	
TAR 377	Sound Design	
Select 12 TAR/DAN credit hours in area of interest		12
TOTAL TRACK CREDITS		42
Total Core Credits		27
TOTAL CREDITS		69

Rock and Roll/Concert Technology Track		Credits
EGT 110	Introduction to Engineering/ Technology (this degree requirement will fulfill a general education requirement: scientific and quantitative inquiry category without lab)	3
TAR 265	Fundamentals of Theatrical Design	3
TAR 364	Computer Graphics for the Stage	3
TAR 464	Special Problems in Theatre Technology (one must be in rigging)	6
Fundamentals Series - select three courses from the following:		
TAR 260	Lighting Fundamentals	9
TAR 262/262L	Costume Construction and Lab	
TAR 277	Fundamentals of Sound Technology	
TAR 368	Theatrical Rendering and Model Building	
Foundations Series – select one course from the following:		
TAR 361	Design and Construction of Stage Properties	3
TAR 362	Drafting for Theatre	
TAR 367	Stagecraft II	
Design Series – select one course from the following:		
TAR 360	Scene Design I	3
TAR 363	Lighting Design	
TAR 366	Costume Design I	
TAR 377	Sound Design	
Note: 1 production credit in common core requirements must be at a concert venue or with the stagehand union.		
Select 15 credits from TAR and the list of approved electives. (The list of electives can be found in the theatre department student handbook.)		15
TOTAL TRACK CREDITS		48
Total Core Credits		27
TOTAL CREDITS		75

Degree Requirements – B.F.A. in Stage Management

Core Courses		Credits
TAR 104	Introduction to NKU Theatre and Dance	1
TAR 110	Acting I	3
TAR 118	Stage Makeup	3
TAR 160	Stagecraft	2
TAR 160L	Stagecraft Laboratory	1
TAR 340	Playscript Analysis	3
TAR 346	Theatre History	3
TAR 347	Dramatic Literature	3
TAR 477	The Business of Theatre	1
TAR 495	Senior Project	1
TAR 390, 391, 490, 491	Production Credits	3
Select 3 TAR credit hours from groups II or III		3
TOTAL CORE CREDITS		27

Stage Management Track		Credits
TAR 130	Musical Skills for the Musical Theatre I	3
TAR 265	Fundamentals of Theatrical Design	3
TAR 370	Directing I	3
TAR 371	Theatre Management	3
TAR 376	Stage Management	3
Select two courses from the following:		
TAR 260	Lighting Fundamentals	
TAR 262/262L	Costume Construction with Laboratory	6
TAR 277	Fundamentals of Sound Technology	
Select two courses from the following:		
CMST 220	Interpersonal Communication	
CMST 230	Small-Group Communication	6
LDR 300	Foundations of Leadership	
Select 15 credit hours from the following:		
TAR 210	Acting II	
TAR 213	Stage Combat	
TAR 225	Musical Theatre Performance I	15
TAR 362	Drafting for Theatre	
TAR 367	Stagecraft II	
DAN 120	Ballet I	
First aid/CPR certification by outside accrediting organization		
TOTAL TRACK CREDITS		42
Total Core Credits		27
TOTAL CREDITS		69

Theatre and Dance Minors

Minor in Dance

Requirements for Minor: Dance		Credits
DAN 120	Ballet I	3
DAN 220	Ballet II	3
DAN 221	Modern Dance I	3
DAN 222	Jazz Dance I	
	-- OR --	3
DAN 224	Tap Dance I	
DAN 323	Physiology of Dance	3
DAN 321	Modern Dance II	3
DAN 375	Choreography	3
DAN 427	Dance History	3
TOTAL CREDITS		24

Minor in Theatre

Requirements for Minor: Theatre		Credits
TAR 111	Creative Expression	
	-- OR --	3
TAR 110	Acting I	
TAR 160	Stagecraft	2
TAR 160L	Stagecraft Laboratory	1
TAR 390, 391, 490, 491	Production Credits (1 hour each)	3
Select one course in theatre history, theory/criticism, or literature from groups II or III		3
Select one course in theatre performance or design/technology from groups I or IV		3
Select three courses in groups I, II, III, IV, V, VI, or VIII		9
TOTAL CREDITS		24

Department of Visual Arts

Location: Fine Arts Center 312

Telephone: 859-572-5421 **Fax:** 859-572-6501

Email Address: visualarts@nku.edu

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

Department Chair: Thomas F. McGovern III

Other Key Personnel:

Freshman Advisor: Candice van Loveren Geis

Department Coordinator: Michele Halley

Gallery Coordinator: David Knight

Sculpture/Ceramics Building Coordinator: Ben Huber

Full-Time Faculty: Matthew Albritton, Kimberly Allen-Kattus, Nicholas Bonner, 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, Chris Smith, Paige Wideman

Undergraduate Programs:

Majors:

Bachelor of Arts

Art

Applied Photography Track

Art Education Track*

Art History Track

Studio Arts Track

Bachelor of Fine Arts

Art

Applied Photography

Art History

Ceramics

Drawing

Intermedia

New Media Art

Painting

Photography

Printmaking

Sculpture

Visual Communication Design

*The Art Education track is no longer accepting majors.

Minors:

Art History

Spacial Arts

Studio Arts

Thinking about the discipline: Department of Visual Arts faculty are prepared to assist students in making informed decisions about their majors, career plans, and other concerns that develop during their undergraduate years. Students pursuing a career in fine arts can select a specific area of study from drawing, painting, printmaking, sculpture, ceramics, new media art, and photography or pursue a more generalized approach by taking courses from all the discipline areas. Students interested in the direct interface of art and industry should consider visual communication design or applied photography as a major. For those students who are attracted to the rich history and current trends in visual arts or are interested in criticism or museum work, the Department of Visual Arts offers a major in art history. 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 Art History Club, Sculpture and Ceramics Society, Next Generation Artists, League of Extraordinary Photographers, New Media Collective Printmaking Club and student chapters of the American Institute of Graphic Art and the National Art Education Association, numerous study-abroad opportunities, department scholarships, internships, and professional exhibition opportunities.

Visual Arts Majors

Degree requirements: All students seeking a Bachelor of Arts degree in visual arts must complete the 15-credit-hour core plus one of the five tracks listed here: studio arts (ceramics, drawing, new media art, painting, photography printmaking, sculpture), art education, art history, applied photography, and visual communication design.

Bachelor of Arts Core Courses

Core Courses	Credits
ART 131 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
ART 291W Advanced Writing-Writing/Artists*	3
TOTAL CORE CREDITS	15
*ART 291W Advanced Writing-Writing/Artists fulfills the general education requirements for Written Communication II.	

Bachelor of Arts in Studio Arts

Degree Requirements: B. A. – Studio Arts

Studio Arts Track	Credits
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
Select one course from the following:	
ARTH 349 Women and Art	
ARTH 358 History of Photography	
ARTH 360 African American Art	
ARTH 454 Art Now	
ARTH 394 Topics in Art History	3
Studio Courses Required (Some studios may be taken while enrolled in ART 133 and ART 134. Other studios must be taken after successfully completing ART 131, ART 132, ART 133 and ART 134.)	
ARTP 230 Painting I	3
ARTQ 210 Basic Photography	3
ARTC 240 Ceramics I	3
ARTS 262 Sculpture I	3
ARTR 272 Introduction to Printmaking	3
ARTM 350 Video, Installation and Sound	3
Studio Electives: Courses numbered 300/400 in ARTC, ARTD, ARTM, ARTO, ARTP, ARTR, or ARTS	12
TOTAL PROGRAM CREDITS	42
Total Core Credits	15
TOTAL CREDITS	57

Bachelor of Arts in Art History

Degree Requirements: B.A. – Art History

Art History Track		Credits
ARTH 101	Survey of Western Art I	3
ARTH 102	Survey of Western Art II	3
ARTH 103	Survey of Western Art III	3
ARTH 104	Survey of Asian Art	3
Select three courses from the following:		
ARTH 349	Women and Art	9
ARTH 350	Ancient Art	
ARTH 358	History of Photography	
ARTH 360	African American Art	
ART 394	Topics in Art History	
ARTH 454	Art Now	
Select three courses from the following with a minimum of one 2D studio and one 3D studio:		
ART 300	Art of the Book	9
ART 317	Web Design for Artists	
ART 331	Digital Design	
ART 380	Study Abroad in Art	
ART 394	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	Drawing II	
ARTD 410	Advanced Drawing	
ARTM 350	Video, Installation, and Sound I	
ARTM 394	Topics in New Media Art	
ARTM 450	Advanced Video, Installation and Sound	
ARTM 451	New Media-Integrative Art	
ARTO 210	Photography	
ARTO 218	Study Abroad Photography	
ARTO 310	Photography II	
ARTO 311	Intermediate Photography	
ARTO 315	Photo-Documentary	
ARTO 318	Study Abroad Photography II	
ARTO 410	Advanced Photography	
ARTO 411	Summer Workshop in Photography	
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	Printmaking I	
ARTR 373	Printmaking II	
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
Select two electives in anthropology, history, philosophy, religion (consult with advisor to determine additional courses.)		6
TOTAL PROGRAM CREDITS		39-45
Total Core Credits		15
TOTAL CREDITS		54-60

Bachelor of Arts in Applied Photography

Degree Requirements: B.A. – Applied Photography

Applied Photography Track		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
Select one 300/400-level ARTH course		
Required studio courses:		
ART 317	Web Design for Artists	3
ARTO 210	Photography	3
ARTO 310	Photography II	3
ARTO 311	Intermediate Photography	3
ARTO 312	Applied Photography I	3
ARTO 315	Photo-Documentary	3
ARTO 413	Applied Photography: Studio and Architecture	3
ARTO 414	Applied Photography: Studio and Location	3
Select one course from the following to be taken prior to the end of sophomore year:		
ART 300	Art of the Book	3
ART 394	Topics in Art	
ARTD 310	Drawing II	
ARTR 272	Printmaking I	
ARTR 373	Printmaking II	
ARTR 374	Techniques in Printmaking	
Select one course from the following to be taken prior to the end of sophomore year:		
ART 394	Topics in Art	3
ARTC 240	Ceramics I	
ARTM 350	Video, Installation, and Sound I	
ARTM 394	Topics in New Media Art	
ARTM 450	Video, Installation, and Sound II	
ARTM 451	New Media-Integrative Art	
ARTS 262	Sculpture I	
TOTAL PROGRAM CREDITS		42
Total Core Credits		15
TOTAL CREDITS		57

Bachelor of Arts in Visual Communication Design

Special admission requirements: For admission to the Bachelor of Arts in visual communication design, students must complete the following courses to qualify for "ARTV 283: Graphic Design Admittance Review:"

- "ART 131: Drawing,"
- "ART 132: Two-Dimensional Studies in Visual Art,"
- "ART 133: Three-Dimensional Studies in Visual Art,"
- "ARTV 201: Introduction to Computer Graphics for Design,"
- "ARTG 215: Visual Communication Design,"
- "ARTG 217: Typography I."

Degree Requirements: B. A. – Visual Communication Design

Visual Communication Design Track		Credits
ARTH 103	Survey of Western Art III	3
ARTV 201	Introduction to Computer Graphics for Design	3
ARTV 215	Visual Communication Design I	3
ARTV 217	Typography I	3
ARTV 283	Graphic Design Admittance Review	0
<i>Prerequisites: ART 131, ART 132, ART 133, ART 134, ARTV 201, ARTV 215, and ARTV 217</i>		

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	
ARTV 317	Typography II	3
ARTO 210	Photography I	3
ARTD 310	Drawing II	3
ARTV 315	Visual Communication Design II	3
ARTV 330	Interaction Design for Visual Communication I	3
ARTP 230	Painting I	3
ARTV 325	Techniques in Visual Communication Design	3
ARTH 321	History of Visual Communication Design	3
Select one studio elective at the 200 level or above		3
Select one studio elective at the 300 level or above		3
TOTAL PROGRAM CREDITS		45
Total Core Credits		15
TOTAL CREDITS		60

Bachelor of Fine Arts

All students seeking a Bachelor of Fine Arts in visual arts must complete the 15-credit-hour core plus one of the 11 tracks listed here: applied photography, art history, ceramics, drawing, new media art, intermedia, painting, photography, printmaking, sculpture and visual communication design.

Core Courses in Art		Credits
ART 131	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
ART 291W	Advanced Writing-Writing/Artists*	
TOTAL CORE CREDITS		15
*ART 291W Advanced Writing-Writing/Artists fulfills the general education requirements for Written Communication II.		

Bachelor of Fine Arts in Art History

Degree Requirements: B.F.A. – Art History

Art History Track		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 four courses from the following:		
ARTH 349	Women and Art	12
ARTH 358	History of Photography	
ARTH 360	African American Art	
ARTH 394	Topics in Art History	
ARTH 454	Art Now	
ARTP 230	Painting I	3
ARTS 262	Sculpture I	3
ART 299	Portfolio Review (to be taken second semester of year 2 or first semester of year 3 at the latest)	0
Select two courses from the following:		
ARTC 240	Ceramics I	6
ARTO 210	Photography I	
ARTR 272	Printmaking I	
Foreign language requirement: four semesters or high school equivalent in Arabic, Chinese, French, German, Italian,		
		12

Japanese, Latin, Russian, or Spanish		
Select 9 credit hours of electives from anthropology, history, philosophy, and religion. (Consult with advisor regarding appropriate courses; other courses are available upon approval)		
ART 497	Senior Exhibition	
9		
1		
TOTAL PROGRAM CREDITS		46-58
Total Core Credits		15
TOTAL CREDITS		61-73

Bachelor of Fine Arts in Ceramics

The following requirements may be taken after completing "ART 131: Drawing" and "ART 132: Two-Dimensional Studies in Visual Art."

Degree Requirements: B.F.A. – Ceramics

Ceramics Track		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 two 300/400-level ARTH courses		6
ARTP 230	Painting I	3
ARTC 240	Ceramics I	3
ARTS 262	Sculpture I	3
ARTR 272	Printmaking I	3
ARTO 210	Photography I	3
ART 299	Portfolio Review (to be taken after 60 semester hours of university coursework or 21 semester hours in art)	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
Select any 300/400-level ceramics or sculpture course		3
Select three additional credit hours in ceramics at the 300 level		3
ART 497	Senior Exhibition	1
TOTAL PROGRAM CREDITS		58
Total Core Credits		15
TOTAL CREDITS		73

Bachelor of Fine Arts in Drawing

Degree Requirements: B.F.A. – Drawing

Drawing Track		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 two 300/400-level ARTH courses		6
ARTP 230	Painting I	3
ARTC 240	Ceramics I	3
ARTS 262	Sculpture I	3
ARTR 272	Printmaking I	3
ARTO 210	Photography I	3
ART 299	Portfolio Review (to be taken after 60 semester hours of university coursework or 21 semester hours in art)	0

ARTD 310	Drawing II	6
ARTP 330	Painting II	3
ARTD 410	Advanced Drawing	6
ARTP 430	Painting III	3
ART 450	Advanced Studio Seminar	3
Select 6 credit hours of art electives		6
ART 497	Senior Exhibition	1
TOTAL PROGRAM CREDITS		58
Total Core Credits		15
TOTAL CREDITS		73

Bachelor of Fine Arts in Visual Communication Design

Special admission requirements: Successful review in "ARTV 283: Graphic Design Admittance Review" is required prior to submitting work for "ART 299: Portfolio Review." Successful review in ART 299 is required for admission to the B.F.A. in visual communication design.

Degree Requirements: B.F.A. – Visual Communication Design

Visual Communication Design Track		Credits
Select two courses from the following:		
ARTH 101	Survey of Western Art I	6
ARTH 102	Survey of Western Art II	
ARTH 103	Survey of Western Art III	
ARTH 104	Survey of Asian Art	
ARTV 201	Introduction to Computer Graphics for Design	3
ARTV 215	Visual Communication Design	3
ARTV 217	Typography I	3
ARTV 283	Graphic Design Admittance Review	0
ARTV 317	Typography II	3
ARTO 210	Photography I	3
ARTD 310	Drawing II	3
ARTV 315	Visual Communication Design II	3
ARTV 330	Interaction Design for Visual Communication Design I	3
ARTP 230	Painting I	3
ART 299	Portfolio Review (to be taken after 60 semester hours of university coursework or 21 semester hours in art)	0
ARTV 325	Techniques in Visual Communication Design	3
ARTH 321	History of Visual Communication Design	3
Select one 3D studio elective		3
ARTV 417	Typography III	3
ARTV 425	Information Design	3
Select one 2D studio elective		3
ARTV 415	Visual Communication Design III	3
ARTV 427	Motion Design	3
Select one 300/400-level studio elective		3
ARTG 496	Graphic Design Experiential Component -- OR --	
CEP 300	Cooperative Education	3
ARTV 428	Visual Communication Design Capstone	3
ART 497	Senior Exhibition	1
TOTAL PROGRAM CREDITS		67
Total Core Credits		15
TOTAL CREDITS		82

Bachelor of Fine Arts in New Media Art

The new media art track is designed for students who want to explore areas such as electronic art, robotic art, installation or experimental video

and film. New media art uses the elements of time with a strong intersection of technology and media that often involve interactivity and exploration of cultural concepts. The curriculum includes working at the frontiers of art, science, and technology, through hands-on learning techniques with critical and creative thinking skills to understand the contemporary world. New media art will prepare students for graduate school, for contemporary art practice as an independent artist and for careers in the creative technological fields such as film, videography, computing, or installation/exhibition design.

Students seeking a Bachelor of Fine Arts in new media art should complete the following courses in addition to the required 15 hours in core courses.

Degree Requirements: B.F.A. – New Media Art

New Media Art Track		Credits
ARTH 102	Survey of Western Art II	3
ARTH 103	Survey of Western Art III	3
Select one ARTH 300/400-level course		3
ARTH 454	Art Now	3
ARTO 210	Photography I	3
ARTS 262	Sculpture I	3
ARTD 310	Drawing II	3
ART 331	Digital Design	3
ARTM 350	Video, Installation, and Sound I	3
ART 299	Portfolio Review (to be taken after 60 semester hours of university coursework or 21 semester hours in art)	0
ART 317	Web Design for Artists	3
ARTM 394	Topics in New Media Art	6
ARTM 450	Video, Installation, and Sound II	3
ART 450	Advanced Studio Seminar	3
ARTM 451	New Media-Integrative Art	3
ART 497	Senior Exhibition	1
Select 12 credit hours from the following:		
ART 300	Art of the Book	12
ART 317	Web Design for Artists	
ART 394	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	
ARTO 418	Study Abroad Photography II	
ARTP 230	Painting I	
ARTP 330	Painting II	
ARTP 333	Materials and Techniques in Painting	
ARTR 272	Printmaking I	
ARTR 373	Printmaking II	
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 375	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	Topics in Art	

ARTO 218	Study Abroad Photography	3
ARTO 315	Photo-Documentary	
ARTO 318	Study Abroad Photography II	
ARTO 418	Study Abroad Photography III	
TOTAL PROGRAM CREDITS		61
Total Core Credits		15
TOTAL CREDITS		76

Bachelor of Fine Arts in Intermedia

The following requirements may be taken after completing "ART 131: Drawing" and "ART 132: Two-Dimensional Studies in Visual Art."

Degree Requirements: B.F.A. – Intermedia

Intermedia Track		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 two 300/400-level ARTH courses		6
ARTP 230	Painting I	3
ARTC 240	Ceramics I	3
ARTS 262	Sculpture I	3
ARTR 272	Printmaking I	3
ARTO 210	Photography I	3
ART 299	Portfolio Review (to be taken after 60 semester hours of university coursework or 21 semester hours in art)	0
ARTD 310	Drawing II	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 PROGRAM CREDITS		58-61
Total Core Credits		15
TOTAL CREDITS		73-76

Bachelor of Fine Arts in Painting

Degree Requirements: B.F.A. – Painting

Painting Track		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 two 300/400-level ARTH courses		6
ARTP 230	Painting I	3
ARTC 240	Ceramics I	3
ARTS 262	Sculpture I	3
ARTR 272	Printmaking I	3
ARTO 210	Photography I	3
ART 299	Portfolio Review (to be taken after 60 semester hours of university coursework or 21 semester hours in art)	0
ARTD 310	Drawing II	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 2012.)	3

ARTD 410	Advanced Drawing	3
ARTP 430	Painting III	6
ART 450	Advanced Studio Seminar	3
ARTR 373	Intermediate Printmaking	3

ART 497	Senior Exhibition	1
TOTAL PROGRAM CREDITS		61
Total Core Credits		15
TOTAL CREDITS		76

Bachelor of Fine Arts in Applied Photography

The following requirements may be taken after completing "ART 131: Drawing" and "ART 132: Two-Dimensional Studies in Visual Art."

Degree Requirements: B.F.A. – Applied Photography

Applied Photography Track		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	
Select one 300/400-level ARTH course		3
ARTO 210	Photography I	3
ART 299	Portfolio Review (to be taken after 60 semester hours of university coursework or 21 semester hours in art)	0
ART 317	Web Design for Artists	3
ARTH 358	History of Photography	3
ARTO 310	Photography II	3
ARTO 311	Intermediate Photography	3
ARTO 312	Applied Photography I	3
ARTO 315	Photo-Documentary	3
ARTO 413	Applied Photography: Studio and Architecture	3
ARTO 414	Applied Photography: Studio and Location	3
Select 6 credit hours from the following:		
ART 300	Art of the Book	6
ART 331	Digital Design	
ART 499	Gallery/Museum Internship	
ARTO 218	Study Abroad Photography	
ARTO 318	Study Abroad Photography II	
ARTO 411	Summer Workshop in Photography	
ARTO 418	Study Abroad Photography III	
ARTM 350	Video, Installation, and Sound I	
ARTM 394	Topics in New Media Art	
ARTM 450	Video, Installation, and Sound II	
ARTM 451	Advanced New Media-Integrative Art	
Select one 2D studio elective		3
Select one 3D studio elective		3
ART 450	Advanced Studio Seminar	3
ART 497	Senior Exhibition	1
TOTAL PROGRAM CREDITS		52
Total Core Credits		15
TOTAL CREDITS		67

Bachelor of Fine Arts in Photography

The following requirements may be taken after completing "ART 131: Drawing" and "ART 132: Two-Dimensional Studies in Visual Art."

Degree Requirements: B.F.A. – Photography

Photography Track		Credits
ARTH 103	Survey of Western Art III	3
Select two courses from the following:		
ARTH 101	Survey of Western Art I	6
ARTH 102	Survey of Western Art II	
ARTH 104	Survey of Asian Art	
Select one 300/400-level ARTH course		3
ARTH 358	History of Photography	3
ARTP 230	Painting I	3
ARTC 240	Ceramics I	3
ARTS 262	Sculpture I	3
ARTR 272	Printmaking I	3
ARTO 210	Photography I	3
ART 299	Portfolio Review (to be taken after 60 semester hours of university coursework or 21 semester hours in art)	0
ARTO 310	Photography II	3
ARTO 311	Intermediate Photography	3
ARTO 312	Applied Photography I	3
ARTO 315	Photo-Documentary	3
ART 317	Web Design for Artists	3
ARTO 413	Applied Photography: Studio and Architecture -- OR --	3
ARTO 414	Applied Photography: Studio and Location	
Select one course from the following:		
ART 300	Art of the Book	3
ART 331	Digital Design	
ART 499	Gallery/Museum Internship	
ARTO 218	Study Abroad Photography	
ARTO 318	Study Abroad Photography II	
ARTO 394	Topics in Photography	
ARTO 411	Summer Workshop in Photography	
ARTO 418	Study Abroad Photography III	
ARTM 350	Video, Installation, and Sound I	
ARTM 394	Topics in New Media Art	
ARTM 450	Video, Installation, and Sound II	
ARTM 451	New Media-Integrative Art	
ART 450	Advanced Studio Seminar	3
ART 497	Senior Exhibition	1
TOTAL PROGRAM CREDITS		58
Total Core Credits		15
TOTAL CREDITS		73

Bachelor of Fine Arts In Printmaking

Degree Requirements: B.F.A. – Printmaking

Printmaking Track		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 two 300/400-level ARTH courses		6
ARTP 230	Painting I	3
ARTC 240	Ceramics I	3

ARTS 262	Sculpture I	3
ARTR 272	Printmaking I	3
ARTR 373	Printmaking II	
ARTO 210	Photography I	3
ART 299	Portfolio Review (to be taken after ARTR 373) (to be taken after 60 semester hours of university coursework or 21 semester hours in art)	0
ARTR 375	Screen Printing	3
ARTR 473	Advanced Printmaking	6
Select three 300/400-level printmaking courses		9
ART 450	Advanced Studio Seminar	3
ART 497	Senior Exhibition	1
TOTAL PROGRAM CREDITS		55
Total Core Credits		15
TOTAL CREDITS		70

Bachelor of Fine Arts in Sculpture

The following requirements may be taken after completing "ART 131: Drawing" and "ART 132: Two-Dimensional Studies in Visual Art."

Degree Requirements: B.F.A. – Sculpture

Sculpture Track		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 two 300/400-level ARTH courses		6
ARTP 230	Painting I	3
ARTC 240	Ceramics I	3
ARTS 262	Sculpture I	3
ARTR 272	Printmaking I	3
ARTO 210	Photography I	3
ART 299	Portfolio Review (to be taken after 60 semester hours of university coursework or 21 semester hours in art)	0
ARTS 360	Techniques in Sculpture	3
ARTS 362	Topics in Sculpture: Concepts and Media	9
ARTS 460	Sculpture: Advanced Study	9
Select one 300/400-level ceramics or sculpture course		3
ART 450	Advanced Studio Seminar	3
ART 497	Senior Exhibition	1
TOTAL PROGRAM CREDITS		58
Total Core Credits		15
TOTAL CREDITS		73

Visual Arts Minors

Minor in Art History

Requirements for Minor: Art History		Credits
ARTH 101	Survey of Western Art I	3
ARTH 102	Survey of Western Art II	3
ARTH 103	Survey of Western Art III	3
ARTH 104	Survey of Asian Art	3
Select three courses from the following:		
ARTH 349	Women and Art	9
ARTH 350	Ancient Art	
ARTH 351	Medieval Art	
ARTH 352	Northern European Art/Renaissance	
ARTH 353	Baroque Art	
ARTH 354	Art of the 19th Century	
ARTH 355	Art of the 20th Century	
ARTH 356	American Art	
ARTH 357	Art of the Italian Renaissance	
ARTH 358	History of Photography	
ARTH 359	Arts and Crafts of Japan	3
ARTH 360	African-American Art	
ARTH 452	Arts of South Asia	
ARTH 454	Art Now	
Select 1 studio art elective from ART, ARTC, ARTD, ARTM, ARTO, ARTR, and ARTS		3
TOTAL CREDITS		24

Minor in Studio Arts

Requirements for Minor: Studio Arts		Credits
ART 132	Two-Dimensional Studies in Visual Art	3
ART 133	Three-Dimensional Studies in Visual Art	3
Select two courses from the following:		
ARTH 101	Survey of Western Art I	6
ARTH 102	Survey of Western Art II	
ARTH 103	Survey of Western Art III	
ARTH 104	Survey of Asian Art	
Select 15 credit hours from ART, ARTC, ARTD, ARTM, ARTP, ARTO, ARTR and ARTS. Courses may be concentrated in one discipline or generalized by taking a course from each.		15
TOTAL CREDITS		27

Minor in Spatial Arts

Requirements for Minor: Spatial Arts		Credits
ARTC 240	Ceramics I	3
ARTS 262	Sculpture I	3
Select 15 credit hours from 300-400 level ARTC or ARTS courses. Courses may be concentrated in one discipline or generalized by taking courses from both ARTC and ARTS. Select from the following courses: ARTC 340, ARTC 341, ARTC 440, ARTC 443, ARTS 360, ARTS 362, and ARTS 460.		
		15
TOTAL CREDITS		21

Department of World Languages and Literatures

Location: Landrum Academic Center 134

Telephone: 859-572-7650 **Fax:** 859-572-7506

Email Address: worldlanglit@nku.edu

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

Department Chair: Caryn Connelly (interim)

Department Coordinator: Tiffany Budd

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

Undergraduate Programs:

Majors:

Bachelor of Arts

French, French with teaching certification

German, German with teaching certification

Spanish, Spanish with teaching certification

Minors:

Chinese Studies (see interdisciplinary section of catalog)

French

German

Japanese Language and Culture

Spanish

Thinking about the discipline: The study of another language helps us to understand and appreciate our neighbors in the world. Today, as countries become increasingly dependent on each other, the knowledge of other languages and cultures is more important than ever before. The study of languages can directly and indirectly provide job-related knowledge and skills that can offer a competitive edge in finding employment. Possible areas of employment include education; international business, law or journalism; social work; 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 (<http://artscience.nku.edu/content/dam/worldlanglit/docs/Majors%20Handbook.pdf>).

You should also know: Departmental placement and retroactive credit policies: Any courses in the 101, 102, 201, 202 sequence in a language may not be taken for credit by a student who has already received credit for the course or a higher numbered course in the same language without permission of the department chair. Initial placement in French, German, or Spanish must be in accord with departmental placement guidelines. The WebCAPE placement test is required. Retroactive credit through the

world language incentive program may be available for students who enroll in courses at a level higher than 101. Placement above or below the range specified in the guidelines requires approval of the department chair. Students whose placement does not reflect departmental guidelines may be removed from a course. The WebCAPE (<http://artscience.nku.edu/departments/worldlanglit/placement/webcape.html>) placement test, detailed placement guidelines and information about retroactive credit options can be found online.

World Languages and Literatures Majors

Bachelor of Arts with a major in French

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.A. – French

Courses	Credits
FRE 201 Intermediate French I <i>Prerequisites: FRE 101 and FRE 102 or placement</i>	3
FRE 202 Intermediate French II	3
FRE 304 French Composition and Conversation	3
FRE 401 French Phonetics and Pronunciation -- OR --	3
FRE 402 Advanced French Grammar and Syntax	
FRE 480 Studies in French Culture	3
FRE 481 Studies in French Literature	3
Culture Study: select two courses from the following not already taken:	
FRE 310 French Culture and Society Today	
FRE 311 French Cultural History	
FRE 330 Studies in French Language Cinema	
FRE 340 Business French	6
FRE 401 French Phonetics and Pronunciation	
FRE 402 Advanced French Grammar and Syntax	
FRE 480 Studies in French Culture	
FRE 520 Readings: French (culture topic)	
Literary Study: select two courses from the following not already taken:	
FRE 320 Survey of French Literature	
FRE 322 French Drama	
FRE 323 French Prose Fiction	6
FRE 481 Studies in French Literature	
FRE 520 Readings: French (literary topic)	
Interdisciplinary Component: select one course from the following:	
CIN 201 Survey of World Cinema	
ENG 206 Western World Literature I	
ENG 207 Western World Literature II	
ENG 381 Introduction to Linguistics	
GEO 402 Geography of Europe	3
HIS 348 History of France 1804-1918	
HIS 349 History of France 1918 to Present	
HIS 409 The French Revolution	
PSC 330 Politics of Europe	
Select one FRE course above the 202 level	3
TOTAL CREDITS	36

Bachelor of Arts with a major in French with Teaching Certification

Students pursuing a major in French with secondary certification are required to:

1. Complete the requirements listed above for the Bachelor of Arts in French.
2. Review the portion of this catalog relating to education.
3. Schedule an appointment with the certification specialist in the College of Education and Human Services and with the certification advisor in French. This should be done as soon as one knows he or she plans to pursue – or is considering – teaching certification.
4. Complete all required teacher education and general education courses.
5. Fulfill all departmental requirements involving the portfolio and other required assessments as specified in the handbook (<http://artscience.nku.edu/content/dam/worldlanglit/docs/Majors%20Handbook.pdf>) for world language majors).

Degree Requirements: B.A. – French with Teaching Certification

Courses	Credits
Requirements for Bachelor of Arts in French (listed above)	36-42
FRE 350 Methods of Teaching in French	3
TOTAL CREDITS	39-45

Bachelor of Arts with a major in German

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.A. – German

Courses	Credits
GER 201 Intermediate German I <i>Prerequisites: GER 101 and GER 102 or placement</i>	3
GER 202 Intermediate German II	3
GER 304 German Composition and Conversation	3
GER 401 German Phonetics and Pronunciation -- OR --	3
GER 402 Advanced German Grammar and Syntax	
GER 480 Studies in German Culture	3
GER 481 Studies in German Literature	3
Culture Study: select two courses from the following:	
GER 310 Contemporary German Life	
GER 311 German Cultural History	
GER 330 Studies in German Language Cinema	
GER 340 Business German	6
GER 401 German Phonetics and Pronunciation	
GER 402 Advanced German Grammar and Syntax	
GER 480 Studies in German Culture	
GER 520 Readings: German (culture topic)	
Literary Study: select two courses from the following:	
GER 320 Survey of German Literature	
GER 322 German Drama	
GER 323 German Prose Fiction	6
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	Critical Theory	
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 361	History of Germany	
HIS 413	History of Nazi Germany	
HIS 414	The Holocaust	
PHI 285	History of Modern and Contemporary Philosophy	
PSC 330	Politics of Europe	
Select one GER elective above the 202 level		3
TOTAL CREDITS		36

Bachelor of Arts with a major in German with Teaching Certification

Students pursuing a major in German with secondary certification are required to:

1. Complete the requirements listed above for the Bachelor of Arts in German.
2. Review the portion of this catalog relating to education.
3. Schedule an appointment with the certification specialist in the College of Education and Human Services and with the chair of the world languages department. This should be done as soon as one knows he or she plans to pursue – or is considering – teaching certification.
4. Complete all required teacher education and general education courses.
5. Fulfill all departmental requirements involving the portfolio and other required assessments as specified in the handbook (<http://artscience.nku.edu/content/dam/worldlanglit/docs/Majors%20Handbook.pdf>) for world language majors.

Degree Requirements: B.A. – German with Teaching Certification

Courses	Credits
Requirements for Bachelor of Arts in German (listed above)	36-42
GER 350 Methods of Teaching German	3
TOTAL CREDITS	39-45

Bachelor of Arts with a major in Spanish

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.A. – Spanish

Courses	Credits
SPI 201 Intermediate Spanish <i>Prerequisites: SPI 101 and SPI 102 or placement</i>	3
SPI 202 Intermediate Spanish II	3
SPI 304 Spanish Composition and Conversation	3

SPI 401	Spanish Phonetics and Pronunciation -- OR --	3
SPI 402	Advanced Spanish Grammar and Syntax	
SPI 480	Studies in Spanish and Spanish-American Culture	3
SPI 481	Studies in Spanish and Spanish American Literature	3
Culture Study: select two courses from the following not already taken:		
SPI 310	Spanish Culture and Civilization	
SPI 311	Spanish-American Culture and Civilization	
SPI 330	Studies in Spanish Language Cinema	
SPI 340	Business Spanish	6
SPI 401	Spanish Phonetics and Pronunciation	
SPI 402	Advanced Spanish Grammar and Syntax	
SPI 480	Studies in Spanish and Spanish-American Culture	
SPI 520	Readings in Spanish (culture topic)	
Literary Study: select two courses from the following not already taken:		
SPI 320	Survey of Peninsular Spanish Literature	
SPI 321	Survey of Spanish-American Literature	
SPI 322	Hispanic Drama	6
SPI 323	Hispanic Prose Fiction	
SPI 481	Studies: Spanish and Spanish-American Literature	
SPI 520	Readings in Spanish (literary topic)	
Interdisciplinary component: select one course from the following:		
ANT 245	Peoples of Latin America and the Caribbean	
ANT 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	3
GEO 402	Geography of Europe	
GEO 406	Geography of Latin America	
HIS 325	Early Latin American History	
HIS 326	Modern Latin American History	
HIS 465	Nature and Development in Latin America	
PSC 330	Politics of Europe	
PSC 335	Politics of Latin America	
Select one SPI course above the 202 level		3
TOTAL CREDITS		36

Bachelor of Arts with a major in Spanish with Teaching Certification

Students pursuing a major in Spanish with secondary certification are required to:

1. Complete the requirements listed above for the Bachelor of Arts in Spanish.
2. Review the portion of this catalog relating to education.
3. Schedule an appointment with the certification specialist in the College of Education and Human Services and with the certification advisor in Spanish. This should be done as soon as one knows he or she plans to pursue – or is considering – teaching certification.
4. Complete all required teacher education and general education courses.
5. Fulfill all departmental requirements involving the portfolio and other required assessments as specified in the handbook (<http://artscience.nku.edu/content/dam/worldlanglit/docs/Major%20Handbook.pdf>) for world language majors.

Degree Requirements: B.A. – Spanish with Teaching Certification

Courses	Credits
Requirements for Bachelor of Arts in Spanish (listed above)	36-42
SPI 350 Methods of Teaching Spanish	3
TOTAL CREDITS	39-45

World Languages and Literatures Minors

Minor in French

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Minor: French	Credits
FRE 201 Intermediate French I <i>Prerequisites: FRE 101 and FRE 102 or placement</i>	3
FRE 202 Intermediate French II	3
FRE 304 French Composition and Conversation	3
Culture Study: select one course from the following:	
FRE 310 French Culture and Society Today	
FRE 311 French Cultural History	
FRE 330 Studies in French Language Cinema	
FRE 340 Business French	
FRE 401 French Phonetics and Pronunciation	3
FRE 402 Advanced French Grammar and Syntax	
FRE 480 Studies in French Culture	
FRE 520 Readings: 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: French (literary topic)	
Select two FRE electives above the 202 level	6
TOTAL CREDITS	21

Minor in German

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Minor: German	Credits
GER 201 Intermediate German I <i>Prerequisite: GER 101 and GER 102 or placement</i>	3
GER 202 Intermediate German II	3
GER 304 German Composition and Conversation	3
Culture Study: select one course from the following:	
GER 310 Contemporary German Life	
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)	
Select two GER electives above the 202 level		6
TOTAL CREDITS		21

Minor in Japanese Language and Culture

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Japanese Language and Culture		Credits
JPN 201	Intermediate Japanese <i>Prerequisite: JPN 101 and JPN 102 or placement</i>	3
JPN 202	Intermediate Japanese II	3
Language and Culture Study: select three courses from the following:		
JPN 304	Japanese Composition and Conversation	
JPN 311	Japanese Cultural History	
JPN 325	Japanese Myth and Folklore	
JPN 340	Business Japanese	
JPN 380	Topics in Advanced Japanese (may be repeated once as a language and culture course if topic varies)	9
JPN 401	Japanese Phonetics and Pronunciation	
JPN 402	Advanced Japanese Grammar and Syntax	
Electives – select two courses from the following or any two above not already taken		
ANT 385	Peoples of East and Southeast Asia	
ARTH 104	Survey of Asian Art -- OR --	
MUS 106	Music of World Cultures	
ARTH 359	Arts and Crafts of Japan	
GEO 410	Geography of East Asia	
GEO 540	Cultural Geography of Asia	6
HIS 338	History of Japan	
JPN 350	Methods of Teaching Japanese	
POP 345	Japanese Popular Culture	
PHI 304	Zen	
PHI 312	Eastern Philosophy	
PSC 388	Politics of Asia	
REL 350	World Religions and Ethics	
TOTAL CREDITS		21

Minor in Spanish

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Spanish		Credits
SPI 201	Intermediate Spanish I <i>Prerequisite: SPI 101 and SPI 102 or placement</i>	3
SPI 202	Intermediate Spanish II	3
SPI 304	Spanish Composition and Conversation	3
Culture Study: select one course from the following:		
SPI 310	Spanish Culture and Civilization	
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 in 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 in Spanish and Spanish-American Literature	
SPI 520	Readings in Spanish (literary topic)	
Select two SPI courses above the 202 level		6
TOTAL CREDITS		21

HAILE/U.S. BANK COLLEGE OF BUSINESS

Location: Business Academic Center 305

Telephone: 859-572-5165

Email Address: cob@nku.edu

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

Dean: Rebecca Porterfield

Other Key Personnel:

Associate Dean: Linda Marquis

Budget Officer: Donna Grey

The Haile/U.S. Bank College of Business offers professional degree programs designed to prepare graduates for successful careers as effective and ethical business and community leaders in a global economy.

In addition to the Foundation of Knowledge general education program required for all undergraduate degree programs, business majors are required to complete a rigorous interdisciplinary basic business curriculum and an intense program of study in a particular major field. Business programs have selective admission. Students initially declare a pre-major in one of eight business disciplines (accounting, business administration, entrepreneurship, finance, human resources management, management, marketing, or sports business). Students who are uncertain about which major to pursue may declare a pre-major called "Undeclared in the College of Business." Pre-majors must meet the selective admission requirements to certify a major by completing ten specified courses with a minimum grade of C- in each course and a minimum GPA of 2.50 across the group.

The college is also home to other undergraduate professional degree programs in construction management and economics.

College Advising Center

Location: Business Academic Center 206

Telephone: 859-572-6134

Email Address: cobadvising@nku.edu

Director: Leslie Kyle

The advising center provides academic advising and career planning assistance for all students with undergraduate majors and minors in the Haile/U.S. Bank College of Business.

Departments

Accounting, Finance, and Business Law

Construction Management

Management

Marketing, Economics, and Sports Business

Accreditations

All business programs are accredited by AACSB – International, the Association to Advance Collegiate Schools of Business.

The construction management programs are accredited by the American Council for Construction Education (ACCE).

Centers

Alternative Dispute Resolution Center

Location: Business Academic Center 311

Telephone: 859-572-5114

Email Address: carrellm@nku.edu

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

Director: Michael R. Carrell

The primary mission of the Alternative Dispute Resolution (ADR) Center is to provide for the peaceful, effective resolution of disputes. This mission is accomplished by utilizing negotiation, mediation, and arbitration processes in classes, training programs and professional conferences. The ADR Center uses the professional experience of full-time faculty from all colleges within NKU. Students are involved directly and indirectly through their participation in one of the largest labor-management conferences in the U.S. as well as their participation in courses that focus on negotiation and conflict resolution, human resource management, and labor relations. When appropriate, students may observe dispute resolution activities and participate in role plays based on actual cases.

Center for Economic Analysis and Development

Location: 2622 Alexandria Pike, Highland Heights, KY 41076

Telephone: 859-392-2413

Email Address: harrahj1@nku.edu

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

Senior Director: Janet Harrah

The Center for Economic Analysis and Development (CEAD) engages in applied business and economic research. It collects, analyzes, and disseminates information on demographic and economic conditions in the region. Other research includes population forecasts; cost-benefit studies; regional economic and industry forecasts; fiscal impact analysis; etc. CEAD's mission is to conduct high-quality, objective research on issues related to the region's current and future economic well being.

Center for Economic Education

Location: Business Academic Center 340

Telephone: 859-572-5155

Email Address: lang@nku.edu

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

Director: Nancy A. Lang

The goal of the Center for Economic Education is to improve the quality and quantity of economic instruction at all grade levels in order to promote economic and financial literacy in the community. As the primary service provider for economic education in northern Kentucky, the NKU center serves all teachers and youth in Boone, Bracken, Campbell, Grant, Gallatin, Kenton, Pendleton and Owen counties. This is accomplished by conducting professional development and graduate programs for teachers, consulting with individuals and schools on curriculum issues, providing resources to schools and individuals, and offering programs for youth. The center also serves as a resource and partner to the university community in offering and promoting financial literacy and supports the university's outreach efforts. The NKU center is an integral part of a statewide network of centers within the Kentucky Council on Economic Education and is affiliated with the Council for Economic Education.

Fifth Third Bank Entrepreneurship Institute

Location: Business Academic Center 352

Telephone: 859-572-5931

Email: dsouzar@nku.edu

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

Director: Rodney R. D'Souza

The Fifth Third Bank Entrepreneurship Institute offers undergraduate academic and outreach programs in entrepreneurship. The institute is an exciting partnership between one of the fastest growing banking organizations in the tri-state region and the fastest growing university in Kentucky. The institute facilitates student skill development through

interaction with entrepreneurs, lenders, investors and business people. Through internships, mentorships, competitions, small business development and signature events, students learn from practical application and consistent interaction with entrepreneurs. The institute is the home of the Collegiate Entrepreneurs Organization, which provides 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.

Business Interdisciplinary Programs

Minor in Business Administration

The minor in business administration is available to students whose major is outside the Haile/U.S. Bank College of Business. In addition, it is required for the following bachelor's degrees in the Haile/U.S. Bank College of Business: accountancy, business administration, entrepreneurship, finance, human resource management, management, marketing, and sports business. It is also required for the Bachelor of Science in Business Informatics.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Business Administration		Credits
ACC 200	Principles of Accounting I-Financial <i>Prerequisites: INF 101 and a college-level mathematics course (MAT or STA)</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BIS 300	Management Information Systems	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
FIN 305	Principles of Finance <i>Prerequisite: STA 212</i>	3
MGT 305	Operations Management in Business <i>Prerequisite: MAT 114 and STA 212</i>	3
MKT 205	Principles of Marketing	3
TOTAL CREDITS		27

Associate of Applied Science in Pre-Business Studies

The associate degree program is designed to provide a consistency between this two-year degree program and the preparation students require to pursue any of the business bachelor's degree curricula in the Haile/U.S. Bank College of Business. Students must fulfill the associate degree general studies components and complete a minimum of 60 credit hours of coursework outlined below. The associate degree in pre-business studies is also available through the Program for Adult Centered Education.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: A.A.S. – Pre-Business Studies

Courses		Credits
INF 101	Computer Literacy and Informatics	3
MAT 109	Algebra for College Students (or ACT > 23) <i>Prerequisite: C- or better in MAHD 099 or placement</i>	3
ACC 200	Principles of Accounting I-Financial <i>Prerequisite: INF 101</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
MGT 205	Business Management Principles	3
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics	3
ENG 291	Advanced College Writing	3
Gen Ed	Culture and Creativity -- OR -- Global Viewpoints	3
Gen Ed	Natural Sciences	3

Electives

Select electives that fit into the bachelor's degree requirements for business majors.	18
TOTAL CREDITS	60

Department of Accounting, Finance, and Business Law

Location: Business Academic Center 375

Telephone: 859-572-6526

Email Addresses:

acct@nku.edu (Accounting and Business Law)

finance@nku.edu (Finance)

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

Department Chair: Peter M. Theuri

Other Key Personnel:

Director, Master of Accountancy: Robert Salyer

Department Coordinator: Jillian Ross

Full-Time Faculty: Deborah Browning, Kathleen Carnes, Steven Devoto, Teresa Elliott, Darius Fatemi, Lee Kersting, J.C. Kim, Young Kim, James Kirtley, Alain Krapf, 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

Accounting Information Systems Track

Accounting Track

Finance

Minors:

Accounting, Finance

Postbaccalaureate Certificates:

General Accounting

Finance

Thinking about the discipline: Accounting and finance are closely related business disciplines. Accounting provides the important financial information necessary to make decisions, and finance offers the skills necessary to manage a firm's financial assets to achieve organizational goals.

Special opportunities for our students: The accounting major requires practical training through an internship. Finance majors are also encouraged to participate in internship programs. Internship opportunities are very diverse and are continually being upgraded through the efforts of the department's professional advisory boards and faculty. There is also an active student organization for both majors that provides outstanding professional networking opportunities at regular meetings and activities. Each year, the department faculty select the outstanding student of the year in each major.

You should also know: To earn the Bachelor of Science with a major in accounting, students must have a 2.00 cumulative GPA for ACC 202 and all 300- and 400-level accounting courses.

Accounting and Finance Majors

Bachelor of Science with a major in Accounting and the required minor in Business Administration

The Bachelor of Science in accounting is offered to students who seek careers as accountants and auditors with public accounting firms or with commercial, industrial, or public institutions. A graduate with this major has a variety of career options such as internal auditor, cost accountant, budget director, tax accountant, Internal Revenue agent, municipal finance officer, controller, or chief financial officer.

The requirements to sit for the Certified Public Accountant exam are established by state law and implemented by the state board of accountancy in each state. The accountancy boards of Kentucky, Ohio, and Indiana

require 150 credit hours including a bachelor's degree. Students should consult the State Board of Accountancy in the state where they plan to seek employment 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.

Transfer students: Transfer students with a major in accounting are required to complete at least 15 credit hours of ACC courses and at least 30 credit hours of required business courses at NKU. For evaluation of transferred courses to meet this requirement and the requirement for 64 credit hours of non-business courses, transfer students should make an advising appointment with the college of business advising center as soon as transcripts from previous institutions are available.

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 degree.

Students in all AACSB-accredited business majors complete a group of eight core courses designed to provide a comprehensive overview of business.

All accounting majors must complete the accounting track or the accounting information systems track in addition to the other requirements for the major.

If a particular course has a prerequisite that is not listed as part of the major, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be satisfied IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Accounting and the required minor in Business Administration

Selective Admission Courses		Credits
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics <i>Prerequisite: C- or better in MAT 109 or ACT ≥ 23</i>	3
ACC 200	Principles of Accounting I-Financial <i>Prerequisite: INF 101</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3

ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
Credits for Selective Admission		30
College of Business 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 205	Principles of Marketing	3
Credits in Business		24
Courses in Accounting		
MAT 112	Applied Calculus <i>Prerequisites: C- or better in MAT 109 or placement</i>	3
ACC 202	Accounting Laboratory	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
ACC 396	Internship: Accounting	1-3
Credits in Accounting		20-22
TOTAL CORE CREDITS		74-76

Accounting Track		Credits
ACC 320	Tax Planning	3
Accounting 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 -- OR --	3
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		74-76
TOTAL CREDITS		86-88

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		74-76
TOTAL CREDITS		86-88

Bachelor of Science with a major in Finance and the required minor in Business Administration

The major in finance offers a rich variety of career possibilities for graduates. The field includes jobs in corporate finance, securities, commercial banking, and financial planning. In corporate finance, positions may be in the treasurer's office or in the chief financial officer's office, and may involve management of financial assets, capital budgeting, project financing, mergers and acquisitions, financial risk management, and international finance. Careers in the securities industry include trading, securities analysis, and research. Banking careers may involve positions as a commercial loan officer, trust administrator, financial risk manager, or bank manager, or in the credit lending or bank operations departments. Investment bankers help corporations perform business transactions, make investment decisions, and raise venture capital. Careers in financial planning include those services offered to individuals and families to assist them in planning for and monitoring their financial futures. Typical services include savings and investments, insurance, retirement planning, and estate planning, all of which are essential in protecting against catastrophic loss.

In addition to courses to meet the selective admission for certification of the major and the business core courses, all students majoring in finance must complete the following: (1) 15 hours of core finance classes and (2) 9 hours of elective finance classes. 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 Investment 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 Investment Analysis" (by application only). Those students considering careers in managerial finance should consider choosing their electives from the following list: "ACC 202: Accounting Laboratory," (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, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be satisfied IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Finance and the required minor in Business Administration

Selective Admission Courses		Credits
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics <i>Prerequisite: C- or better in MAT 109 or ACT ≥ 23</i>	3
ACC 200	Principles of Accounting I-Financial <i>Prerequisite: INF 101</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
Credits for Selective Admission		30
College of Business 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 205	Principles of Marketing	3
Credits in Business		24
Courses for 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
FIN 415	International Finance (ACC 308 Financial Statement Analysis may be substituted for FIN 415)	3
Select three 300/400-level FIN courses (MKT 310: Building and Managing Customer Relations" may be substituted for one of the 300/400-level FIN electives)		9
Credits for Finance		24
TOTAL CREDITS		78

Accounting and Finance Minors

Minor in Accounting

The required courses in accounting provide a general introduction to accounting in organizations. Elective courses allow students to pursue their own particular interests in the discipline. Courses that are counted in partial fulfillment of the business administration major may not be counted as fulfilling part of the accounting minor.

If a particular course has a prerequisite that is not listed as part of the major, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be satisfied IN ADDITION TO other program requirements.

Requirements for Minor: Accounting		Credits
ACC 200	Principles of Accounting I-Financial <i>*Prerequisite: INF 101</i>	3
ACC 201	Principles of Accounting II-Managerial	3
ACC 202	Accounting Laboratory	1
ACC 300	Intermediate Accounting I	3
Accounting Electives – select four courses from the following:		
ACC 301	Intermediate Accounting II	12
ACC 310	Accounting Information Systems	
ACC 320	Tax Planning	
ACC 330	Fraud Examination	
ACC 350	Management Cost Accounting I	
ACC 400	Auditing	
ACC 420	Advanced Tax Planning	
ACC 430	Accounting for Nonprofit Institutions	
ACC 450	Management Cost Accounting II	
TOTAL CREDITS		

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
Select four 300/400-level FIN courses		12
TOTAL CREDITS		18

Accounting and Finance Postbaccalaureate Certificates

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

General Accounting Certificate

The certificate in general accounting is designed for 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
Select one 300/400-level ACC course		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 M. H. Saad

Other Key Personnel:

Department Coordinator: Melissa S. Decker

Lab Technician: Mike Lehrter

Full-Time Faculty: James Bradtmueller, Sean Foley, Ausbra McFarland, Daryl Orth, Lewis Edward Workman

Undergraduate Programs:

Majors:

Bachelor of Science

Construction Management

Minor:

Construction Management

Associate of Applied Science

Construction Technology

Thinking about the discipline: Programs offered by the Department of Construction Management employ active learning, requiring students not only to read about the topics they are studying but also engage in those activities. The programs incorporate real-life projects in the classroom and require lab experiences as well as cooperative education or internship experiences. For additional information on the major, please visit the department's website.

Special opportunities for our students: The Department of Construction Management offers awards for outstanding undergraduates. Multiple scholarships are offered through the department including the Greater Cincinnati Home Builders Association Scholarship, Macy's Rudolph V. Javosky Memorial Endowed Scholarship, and the Spirit of Construction Foundation Scholarship. Students have the opportunity to participate in the Construction Management Association student organization as well as the sub-organizations within that umbrella group including the Mechanical Contractors of America, the National Association of Homebuilders, and the American Concrete Institute student organizations.

Construction Management Majors

Bachelor of Science in Construction Management

NKU's construction management program is a nationally recognized program, accredited by the American Council for Construction Education, that provides its students with both the theoretical and hands-on skills to manage a construction project from inception to completion. The program covers the technical aspects of project design and execution in addition to management and administration aspects resulting in project completion on time, within budget, and meeting the client's expectations. This balanced curriculum of 120 credit hours includes a minimum of six hours of co-op, allowing the students to learn onsite and apply what they learn in class to a real-world project. Students graduating from the program can work toward earning a minor in business, marketing, or entrepreneurship to complement their construction education. Graduates occupy positions such as project engineers, project managers, project superintendents, construction estimators, construction schedulers, and construction safety officers.

Students must fulfill all requirements for the major and either the standard business component or the minor in entrepreneurial studies offered by the Department of Management. Students must earn a *C* or better in all core courses.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Construction Management

Core Courses in Construction Management		Credits
CMGT 101	Introduction to Construction Management	3
CMGT 120	Construction Materials and Methods I	3
CMGT 121	Construction Materials and Methods II	3
CMGT 220	Plane Surveying	3
CMGT 222	Architectural Drafting and CAD	3
CMGT 225	Construction Safety	3
CMGT 228	Soil and Foundation Interaction	3
CMGT 301	Cooperative Construction Management (two 3 credit-hour sessions)	6
CMGT 303	Construction Contracts, Documents and Administration	3
CMGT 305	Mechanical Systems for Construction	3
CMGT 306	Electrical Systems for Construction	3
CMGT 320	Construction Estimating	3
CMGT 322	Structural Analysis	3
CMGT 324	Construction Scheduling	3
CMGT 329	Construction Equipment	3
CMGT 415	Construction Management	3
CMGT 420	Construction Cost Control	3
CMGT 431	Capstone Project: Residential and Commercial Construction	3
Select two courses from the following:		
CMGT 323	Land Planning and Development	
CMGT 399	Independent Study in Construction Management (with approval of chair)	
CMGT 400	Building Codes	
CMGT 427	Construction Law and Legal Contracts	6
CMGT 429	Civil Design	
CMGT 383	Advanced Technical Study (with approval of chair)	
CMGT 494	Seminar: Construction Management	
Credits in Construction Management		63
Core Courses in Other Disciplines		
MAT 119	Precalculus Mathematics <i>Prerequisite: MAT 109 or ACT ≥ 23</i>	3
GLY 120/ GLY 120L	This Dangerous Earth Laboratory*	4
PHY 211	General Physics with Laboratory I*	5
Select one course from the following:*		
MAT 128	Calculus A	
MAT 129	Calculus I	
STA 205	Introduction to Statistical Methods	3
STA 212	Statistics for Business Applications I	
Core Credits in Other Disciplines		15
Business Component or Entrepreneurship Minor Credits		18
TOTAL CORE CREDITS		96
*Required course; counts toward general education credit.		

Standard Business Component		Credits
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics -- OR --	3
ECO 201	Principles of Microeconomics	
MGT 205	Business Management Principles	3
ENTP 150	Overview of Accounting	3
Select two courses from the following:		
ECO 200	Principles of Macroeconomics	
ECO 201	Principles of Microeconomics (if not taken above)	
BUS 330	Ethics: Managerial Decision-Making	
FIN 305	Principles of Finance	6
HRM 300	Introduction to Labor Relations	
LDR 205	Human Relations in Organizations	
LDR 308	Leadership Development	
LDR 395	Teamwork in Organizations	
MKT 205	Principles of Marketing	
Other as approved by the department chair		
TOTAL BUSINESS COMPONENT CREDITS		18

Bachelor of Science in Construction Management – Surveying Track

This program is a partnership degree program between Cincinnati State Technical and Community College and NKU. Students pursuing this track must complete the associate degree in civil engineering technology – surveying from CSTCC and the advanced surveying certificate program from CSTCC. Students then transfer to NKU and complete additional coursework according to the articulation agreement between NKU and CSTCC. Graduates from this bachelor's degree program will qualify to sit for the Professional Registration Test in Kentucky, Ohio, and Indiana after serving the proper residency under a licensed surveyor. Students interested in pursuing the Indiana surveyor's license are required to take approximately three additional science courses as outlined by the state of Indiana.

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 Methods I	3
CMGT 121	Construction Materials and Methods II	3
CMGT 222	Architectural Drafting and CAD	3
CMGT 303	Construction Contracts, Documents and Administration	3
CMGT 320	Construction Estimating	3
CMGT 324	Construction Scheduling	3
Select one CMGT course approved by advisor and not listed above		3
TOTAL CREDITS		24

Construction Management Associate Degree

Associate of Applied Science in Construction Technology

Graduates of this associate degree program will comprehend the basic technology used to design and plan the construction of commercial buildings, residences, and other construction projects. Construction technicians provide services to engineers, architects, developers, construction materials suppliers, manufacturers, and distributors. This is the first half of the accredited baccalaureate program also offered in the Department of Construction Management.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: A.A.S. – Construction Technology

Courses in Construction Management		Credits
CMGT 101	Introduction to Construction Management	3
CMGT 120	Construction Materials and Methods I	3
CMGT 121	Construction Materials and Methods II	3
CMGT 220	Plane Surveying	3
CMGT 222	Architectural Drafting and CAD	3
CMGT 225	Construction Safety	3
CMGT 228	Soil and Foundation Interaction	3
CMGT 301	Cooperative Construction Management	3
CMGT 303	Construction Contracts, Documents and Administration	3
CMGT 305	Mechanical Systems for Construction	3
CMGT 306	Electrical Systems for Construction	3
CMGT 320	Construction Estimating	3
Select two CMGT courses not listed above as approved by advisor		6
Credits in Construction Management		42
Courses in Other Disciplines		
MAT 119	Precalculus Mathematics <i>Prerequisite: MAT 109 or ACT ≥ 23</i>	3
PHY 211	General Physics with Laboratory I*	5
BUS 330	Ethics: Managerial Decision Making	3
Select one course from the following*:		
MAT 128	Calculus A	
MAT 129	Calculus I	3
STA 205	Introduction to Statistical Methods	
STA 212	Statistics for Business Applications I	
Credits in Other Disciplines		14
TOTAL CREDITS		56

*Required course; counts toward general education credit.

Department of Management

Location: Business Academic Center 376

Telephone: 859-572-5114

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

Department Chair: Stephen Mueller (muellers1@nku.edu)

Other Key Personnel:

Director, Master of Science in Executive Leadership and Organizational Change: Ken Rhee

Department Coordinator: Deanna Karam (karamd1@nku.edu)

Full-Time Faculty: Ben Baran, Carole Cangioni, Michael Carrell, John Clarkin, Rodney D'Souza, Matthew Ford, Richard Gilson, Bertie Greer, Stephanie Hughes, Dan Kent, Denise Luethge, Lou Manchise, Michael McDermott, Stephen Mueller, Kenneth Rhee, Stephen Roush, Tracey Sigler, Rob Snyder, Sandra Spataro

Undergraduate Programs:

Majors:

Bachelor of Science
Business Administration
Entrepreneurship
Human Resource Management
Management

Minors:

Entrepreneurial Studies
Management

Postbaccalaureate Certificate:

Entrepreneurial Studies

Thinking about the discipline: Programs cover all aspects of managing organizations. Students will develop skills in:

- Leadership
- Team building and collaboration
- Written and oral communication
- Problem solving
- Creativity
- Critical thinking
- Strategic decision making

Special opportunities for our students: Students may choose to engage in internship or cooperative education activities. Students in all majors have the option of participating in discipline-specific student organizations to prepare themselves as professionals in the field. Each year, the department faculty selects the Outstanding Student of the Year in each major.

Special admission requirements: Students desiring to enter the Bachelor of Science programs in the Department of Management must meet selective admission requirements established by the Haile/U.S. Bank College of Business. These requirements are met by completing a set of 10 courses with a minimum grade of *C-* in each course and a minimum GPA of 2.50 across the set of courses. Prior to meeting these requirements, students are enrolled as "pre-majors." Some selective admission courses can be used to satisfy general education requirements, and some satisfy partial requirements for the minor in business administration.

You should also know: Students in all AACSB-accredited business majors complete a group of eight core courses designed to provide a comprehensive overview of business.

Management Majors

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

The major in business administration is designed to permit students to create a program of interdisciplinary study from courses at the 300 level or above in the Haile/U.S. Bank College of Business appropriate to their academic interests and career goals. The Bachelor of Science in business administration may be of particular value to transfer students who prefer a broad overview of business courses as opposed to depth in a particular area.

You should also know: The major in business administration can be completed at night and through the Program for Adult Centered Education. If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Business Administration and the required minor in Business Administration

Selective Admission Courses		Credits
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics <i>Prerequisite: C- or better in MAT 109 or ACT ≥ 23</i>	3
ACC 200	Principles of Accounting I-Financial <i>Prerequisite: INF 101</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
Credits for Selective Admission		30
College of Business 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 205	Principles of Marketing	3
Credits in Business		24
Courses for Business Administration		
FIN 205	Personal Financial Management -- OR --	3
MGT 205	Business Management Principles	
BIS 380	Quantitative Analysis with Excel	3
Select seven 300/400/500-level courses from AACSB-accredited programs		21
CREDITS FOR BUSINESS ADMINISTRATION		27
TOTAL CREDITS		81

Bachelor of Science with a major in Entrepreneurship and the required minor in Business Administration

The Bachelor of Science in entrepreneurship prepares students for the challenges of today's fast-paced and uncertain economic environment where competition is based on opportunity recognition, innovation, speed to market, and entrepreneurial drive. In this innovative degree program, the focus is on developing a needed skill set, and an entrepreneurial mindset as well as creating value in the marketplace. Students learn to capitalize on uncertainty rather than avoid it and embrace the learning that comes from taking calculated risks. The curriculum is multidisciplinary and designed to give students an opportunity to develop their own creative skills while applying basic business principles to the challenges of starting a new business, growing a business, or managing a family business. The program emphasizes the new venture-creation model and its application in small or large companies and in profit and not-for-profit organizations. Course topics include idea generation, opportunity recognition, feasibility analysis, business plan development, venture financing, early stage strategies, corporate venturing, and management of innovation. Students have the chance to meet and interact with entrepreneurial leaders in the region and throughout the world.

The entrepreneurship major prepares its graduates for a wide range of business-related career paths. Some are prepared to start their own business, either soon after graduation or at some point in the future. Some are prepared to begin a more traditional leadership path where the self-reliance, initiative, creativity, and communication skills developed in this program are viewed as positive qualities by prospective employers. Still others are prepared to apply their newly developed business planning and analysis skills to obtain entry-level positions with consulting firms, commercial lending institutions, and private equity firms. The major in entrepreneurship provides students with career options not available to students graduating with traditional business degrees.

You should also know: The major in entrepreneurship can be completed at night. Entrepreneurship majors are required to complete one of three tracks: (1) venture management track, (2) marketing track, or (3) business analytics track.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Entrepreneurship and the required minor in Business Administration

Selective Admission Courses		Credits
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics <i>Prerequisite: C- or better in MAT 109 or ACT ≥ 23</i>	3
ACC 200	Principles of Accounting I-Financial <i>Prerequisite: INF 101</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
Credits for Selective Admission		30
College of Business 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 205	Principles of Marketing	3
Credits in Business		24
Core Courses for Entrepreneurship		
MGT 205	Business Management Principles	3
BIS 380	Quantitative Analysis with Excel	3
MGT 240	Managerial Communication	3
ENTP 201	Principles of Entrepreneurship	3
ENTP 310	Enterprise Creation	3
ENTP 375	Marketing Strategies for Entrepreneurial Businesses	3
ENTP 376	New Venture Financing	3
ENTP 433	New Venture Management	3
ENTP 497	Writing the Business Plan	3
Credits for Entrepreneurship		27
Venture Management Track		
Select three courses from the following:		
ENTP 320	Social Entrepreneurship	9
ENTP 378	Emerging Enterprise Law	
ENTP 379	Technology and Innovation Management	
ENTP 394	Topics: Entrepreneurship	
ENTP 396	Entrepreneurial Internship	
TOTAL TRACK CREDITS		9
TOTAL CORE CREDITS		81
TOTAL CREDITS		90
Marketing Track		
MKT 310	Building and Managing Customer Relations	3
MKT 320	Consumer Behavior	3
MKT 370	Social Media	3
MKT 350	Creating Value through Product and Price	3
TOTAL TRACK CREDITS		12
TOTAL CORE CREDITS		81
TOTAL CREDITS		93
Business Analytics Track		
INF 282	Introduction to Databases	3
BIS 310	Information Systems Analysis	3
BIS 330	IT Project Management	3
BIS 430	Workflow Design and Management	3
TOTAL TRACK CREDITS		12
TOTAL CORE CREDITS		81
TOTAL CREDITS		93

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 com-

munication skills and skills in managing diversity. Students also will have the opportunity to gain practical experience in human resource management by completion of a rigorous and required internship program. The Bachelor of Science in HRM at NKU is one of only 263 programs in the world that has been acknowledged as being in alignment with the Society for Human Resource Management HR Curriculum Guidebook and Templates.

You should also know: The major in human resource management can be completed at night.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B. S. – Human Resource Management and the required minor in Business Administration

Selective Admission Courses		Credits
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics <i>Prerequisite: C- or better in MAT 109 or ACT ≥ 23</i>	3
ACC 200	Principles of Accounting I-Financial <i>Prerequisite: INF 101</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
Credits for Selective Admission		30
College of Business 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 205	Principles of Marketing	3
Credits in Business		24
Courses for Human Resource Management		
MGT 205	Business Management Principles	3
BIS 380	Quantitative Analysis with Excel	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 Resource Administration	3
MGT 394	Topics: Management	2
HRM 480	Strategic Human Resources	3
Select 7 credit hours from the following:		
MGT 240	Managerial Communication	7
Any 300/400-level MGT or HRM courses		
CREDITS FOR HUMAN RESOURCE MANAGEMENT		39
TOTAL CREDITS		93

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. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Management and the required minor in Business Administration

Selective Admission Courses		Credits
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics <i>Prerequisite: C- or better in MAT 109 or ACT ≥ 23</i>	3
ACC 200	Principles of Accounting I-Financial <i>Prerequisite: INF 101</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
Credits for Selective Admission		30
College of Business 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 205	Principles of Marketing	3
Credits in Business		24
Courses for Management		
CMST 220	Interpersonal Communication	3
BIS 380	Quantitative Analysis with Excel	3
ENG 340	Business Writing	3

MGT 205	Business Management Principles	3
MGT 240	Managerial Communication	3
MGT 310	Managerial Behavior	3
MGT 340	Human Resource Administration	3
MGT 394	Topics: Management	2
MGT 406	Leadership Assessment and Development II	3
Select four electives from 300/400-level MGT, ENTP, and HRM courses		12
CREDITS FOR MANAGEMENT		38
TOTAL CREDITS		92

Management Minors

Minor in Entrepreneurial Studies

The minor in entrepreneurial studies is especially valuable for students in other colleges who are inclined to apply their passion to their own business rather than that of someone else. The focus is on generating ideas based on creativity, opportunity identification, feasibility studies, start-up activities, early-stage strategies, and new initiatives within corporate environments. Students have unique opportunities to be involved in business partnerships and to find creative solutions to real business problems while completing their degrees.

This minor is offered in a traditional classroom format or as an online minor. For more information about the online minor, contact Educational Outreach. Students must declare format.

Requirements for Minor: Entrepreneurial Studies		Credits
ENTP 150	Overview of Accounting -- OR --	3 or 6
ACC 200 and ACC 201	Principles of Accounting I-Financial Principles of Accounting II-Managerial	
ENTP 201	Principles of Entrepreneurship	3
ENTP 310	Enterprise Creation	3
ENTP 499	Independent Study	3
Select two courses from the following:		
ENTP 320	Social Entrepreneurship	
ENTP 375	Marketing Strategies for Entrepreneurial Businesses	
ENTP 376	New Venture Financing	
ENTP 378	Emerging Enterprise Law	6
ENTP 379	Technology and Innovation Management	
MKT 310	Building and Managing Customer Relations	
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 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 major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Management		Credits
CMST 220	Interpersonal Communication <i>Prerequisite: CMST 101</i>	3
MGT 205	Business Management Principles	3
MGT 300	Behavior in Organizations: Understanding Organizational Life	3
MGT 310	Managerial Behavior	3
MGT 340	Human Resource Administration	3
Select two 300/400-level MGT courses		6
TOTAL CREDITS		21

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 eight years.

For more information about the online postbaccalaureate certificate, contact Educational Outreach at 859-392-2400 or nkuonline@nku.edu.

Requirements for Postbaccalaureate Certificate: Entrepreneurial Studies		Credits
ENTP 150	Overview of Accounting -- OR --	3 or 6
ACC 200 and ACC 201	Principles of Accounting I-Financial Principles of Accounting II-Managerial	
ENTP 201	Principles of Entrepreneurship	3
ENTP 301	Enterprise Creation	3
ENTP 375	Marketing Strategies for Entrepreneurial Businesses	3
ENTP 433	New Venture Management	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: Doris Shaw

Other Key Personnel:

Director, Center for Economic Education: Nancy Lang
 Director, Sports Business Program: Jennifer Gardner
 Director, Marketing Research Partnership Program: Aron Levin
 Department Coordinator: Teresa Huddleston

Full-Time Faculty: Abdullah Al-Bahrani, Gary Clayton, Joe Cobbs, Linda Dynan, Jennifer Gardner, Chip Heath, Nancy Lang, Aron Levin, Greg Martin, Banwari Mittal, Margaret Myers, Bridget Nichols, David Raska, Doris Shaw, Qing Su, Eileen Weisenbach Keller

Undergraduate Programs:

Majors:

Bachelor of Science
 Economics
 Marketing
 Comprehensive Marketing Track
 Consumer and Product Marketing Track
 Marketing Research Track
 Sports Business

Minors:

Economics
 Marketing
 Sports Business

Postbaccalaureate Certificates:

Applied Economics and Public Policy
 Marketing Research
 Sports Business

Thinking about the discipline: Marketing, economics, and sports business – why are these academic degree programs in the same department? Not by accident, we assure you. All three majors stem from the study of the markets in which business and society function. The discipline of economics provides the foundation for the way people think about all kinds of markets. It's not too much to say that the general practice of marketing is based in large part on economic principles and shaped by national and global economic policy. The business of sports, particularly professional sports, has its own unique configuration of economic conditions – a bit different from conventional consumer markets – that govern competition. Of course, each major is different, but all three share an emphasis on key fundamentals that give our graduates a competitive advantage in the job market or graduate school admission: learning by doing, both in the classroom and through internships; superior research skills; high-level analytical and critical thinking; clear, concise, and compelling communication skills; collaborative teamwork skills; and a grounding philosophy of ethical, sustainable, and global competition.

Special opportunities for our students: Students in all three degree programs have the opportunity to participate in internship programs. Internship opportunities are very diverse and are continually upgraded through the efforts of our professional advisory boards and faculty. The department also has active student organizations in each major that provide professional networking opportunities at regular meetings and

activities. Each year, the department faculty select the outstanding student of the year in each major.

Special admission requirements: Students desiring to enter the Bachelor of Science programs in marketing or sports business must meet selective admission requirements established by the Haile/U.S. Bank College of Business. These requirements are met by completing a set of 10 courses (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 10 courses (30 credit hours) plus two additional ECO elective courses (six credit hours). The program provides up to 33 credit hours at the 300/400 level that can be used for minors or a double major.

Students should consider using an internship (ECO 396) to fulfill an elective requirement in the economics degree program. The internship option allows students to gain practical work experience and real-world networking exposure at the local, regional, national, or international level while under the guidance and supervision of an expert professional. Internships can also be targeted to the area of the student’s minor.

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
Select two ECO 300/400/500-level courses	6
STA 314 Design and Analysis of Experiments	3
ECO 311 Econometrics II	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 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 four-year graduation plan, the program of study for all tracks is the same for the first three years (six semesters) of study, so tracks can easily be changed prior to the beginning of the seventh semester. Tracks are: comprehensive marketing, marketing research, and consumer and product marketing. The comprehensive marketing track offers the most flexibility in course choice, while the other two 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 track.

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 three tracks: (1) comprehensive marketing, (2) marketing research, or (3) 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. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Marketing and the required minor in Business Administration

Selective Admission Courses		Credits
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics <i>Prerequisite: C- or better in MAT 109 or ACT ≥ 23</i>	3
ACC 200	Principles of Accounting I-Financial <i>Prerequisite: INF 101</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
Credits for Selective Admission		30
College of Business 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 205	Principles of Marketing	3
Credits in Business		24
Core Courses for Marketing		
PSY 100	Introduction to Psychology	3
SOC 100	Introduction to Sociology	3
BIS 380	Quantitative Analysis with Excel	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 310	Building and Managing Customer Relations	3
MKT 480	Strategic Decision Making in Marketing	3
Credits for Marketing		27
TOTAL CORE CREDITS		81

Comprehensive Marketing Track		Credits
Select two courses from the following:		
MKT 307	Delivering and Communicating Value	6
MKT 350	Creating Value Through Product and Price	
MKT 370	Social Media	
Quantitative/Electronic Elective – select one course from the following:		
BIS 330	IT Project Management	3
ECO 310	Introduction to Econometrics	
INF 282	Introduction to Databases	
MGT 306	Project Management	
STA 360	Statistical Computing	
Other as approved by department		

Select one additional MKT course	3
TOTAL TRACK CREDITS	12
Total Core Credits	81
TOTAL CREDITS	93

Marketing Research Track	Credits
BIS 330 IT Project Management	3
MKT 492 Advanced Marketing Research	3
Select one 300/400-level MKT course	3
Quantitative/Electronic Electives – select one course from the following:	
INF 282 Introduction to Databases	3
STA 360 Statistical Computing	
ECO 310 Introduction to Econometrics	
Other as approved by department	
TOTAL TRACK CREDITS	12
Total Core Credits	81
TOTAL CREDITS	93

Consumer and Product Marketing Track	Credits
MKT 350 Creating Value Through Product and Price	3
MKT 307 Delivering and Communicating Value	3
Select one 300/400-level MKT course	3
Quantitative/Electronic Elective – select one course from the following:	
BIS 330 IT Project Management	3
ECO 310 Introduction to Econometrics	
INF 282 Introduction to Databases	
MGT 306 Project Management	
STA 360 Statistical Computing	
Other as approved by department	
TOTAL TRACK CREDITS	12
Total Core Credits	81
TOTAL CREDITS	93

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 United States Women's Professional Soccer league? Who decided that M&M's would sponsor a NASCAR team? 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. A small sampling of career paths in the sports industry includes sport marketing and promotions, event management, sports media, sports sponsorship, athlete services, sports commissions, sports attorneys, sports administration, sports accounting and finance, college athletic fundraising, ticket sales, sports equipment manufacturing and distribution, sports facilities and operations management, and team, league and college athletic management and marketing. All students are strongly encouraged to discuss their career goals with sports business faculty for guidance in searching for the perfect job.

All sports business students complete a common sports business knowledge core of 9 courses (27 credit hours) that includes a field internship. This internship experience allows students to gain practical work experience and real-world networking exposure to the sports business environment at the local, regional, national or international

level while under the guidance and supervision of a successful sports professional. The remaining 9 hours of course credit serve as a specialization elective where the student is given the freedom to choose 3 classes from the college of business (one or more as an additional SPB course) that fit their area of career interest.

You should also know: A grade of C or better in all program courses in the sports business major is required to earn the Bachelor of Science in sports business.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Sports Business and the required minor in Business Administration

Selective Admission Courses		Credits
CMST 101	Public Speaking	3
ENG 101	College Writing	3
MAT 114	Finite Mathematics <i>Prerequisite: C- or better in MAT 109 or ACT ≥ 23</i>	3
ACC 200	Principles of Accounting I-Financial <i>Prerequisite: INF 101</i>	3
ACC 201	Principles of Accounting II-Managerial	3
BUS 230	Legal Environment	3
ECO 200	Principles of Macroeconomics	3
ECO 201	Principles of Microeconomics	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
Credits for Selective Admission		30
College of Business 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 205	Principles of Marketing	3
Credits in Business		24
Courses for Sports Business		
ECO 310	Introduction to Econometrics --OR--	3
BIS 380	Quantitative Analysis with Excel	
ENG 340	Business Writing	3
MKT 310	Building and Managing Customer Relations	3
SPB 200	Rivalry and Rituals: International Sport	3
SPB 305	Sports Marketing and Promotions	3
SPB 307	Moneyball: The Economics of Sport	3
SPB 340	Development and Fundraising Strategies in Sports	3
SPB 480	Sports Business Strategies and Policies	3
SPB 396	Internship: Sports Business	3
Select 3 additional college of business courses including one or more of the following:		
SPB 309	Sports Public Relations	9
SPB 330	Sports Legal Environment	
MKT 335	Event Planning and Management	
Credits for Sports Business		36
TOTAL CREDITS		90

Marketing, Economics, and Sports Business Minors Minor in Economics

The two required courses (ECO 200 and ECO 201) provide a general foundation in economic theory and application. Either can be used to fulfill a university general education requirement in the individual and society category. A broad choice of elective courses allows students to focus on their own specific interests in the field of economics. If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Economics		Credits
ECO 200	Principles of Macroeconomics <i>Prerequisite: College-level mathematics course (MAT or STA)</i>	3
ECO 201	Principles of Microeconomics	3
Select six 300/400/500-level ECO courses		18
TOTAL CREDITS		24

Minor in Marketing

The three required courses provide a general introduction to organizations and their management, an overview of the practice of marketing in for-profit and not-for-profit organizations, and an analytically oriented understanding of consumer behavior in the marketplace. A wide choice of elective courses allows students to focus on their own specific interests in the field of marketing.

Requirements for Minor: Marketing		Credits
MGT 205	Business Management Principles	3
MKT 205	Principles of Marketing	3
MKT 320	Consumer Behavior	3
Select four courses from the following:		
SPB 305	Sports Marketing and Promotion	
Any 300/400-level MKT course		12
TOTAL CREDITS		21

Minor in Sports Business

The business of sports encompasses teams at the major, minor, collegiate, recreational, high school and youth levels, as well as sports events, facilities, sponsorships, tourism, and specific legal issues. The minor in sports business equips students with the framework for strategic decision making in sports marketing, promotions, media/public relations, and a selection of other relevant industry issues tailored by the student's elective selections.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Sports Business		Credits
MKT 205	Principles of Marketing <i>Prerequisite: ≥ 60 credit hours</i>	3
SPB 200	Rivalry and Rituals: International Sport	3
SPB 307	Moneyball: The Economics of Sport	3
SPB 340	Development and Fundraising Strategies in Sports	3
Select one course from the following:		
MKT 310	Building and Managing Customer Relations	
MKT 335	Event Planning and Management	3
SPB 330	Sports Legal Environment	
Other as approved by department		3
TOTAL CREDITS		18

Marketing, Economics, and Sports Business Certificates

Postbaccalaureate Certificate in Applied Economics and Public Policy

The certificate in applied economics and public policy is designed for students interested in acquiring the knowledge and skills that will enhance their effectiveness in the area of applied economics and public policy. This set of courses provides students with the opportunity to develop critical-thinking and problem-solving skills and apply them to current economic issues.

Any student with a prior undergraduate degree is eligible to pursue 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 eight years.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Postbaccalaureate Certificate: Applied Economics and Public Policy		Credits
ECO 200	Principles of Macroeconomics <i>Prerequisite: College-level mathematics course (MAT or STA)</i>	3
ECO 201	Principles of Microeconomics <i>Prerequisite: College-level mathematics course (MAT or STA)</i>	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
TOTAL CREDITS		21

Postbaccalaureate Certificate in Marketing Research

Marketing research is the gathering and analyzing of information used to assist organizations in decision making and has become a critical function for both for-profit and not-for-profit organizations of all sizes. The research industry is especially vibrant in the Greater Cincinnati area and career opportunities continue to grow. The certificate in marketing research is designed to provide the academic foundation and skills needed for many entry-level positions in the marketing research industry.

Any student with a prior undergraduate degree is eligible to pursue the postbaccalaureate certificate in marketing research. Students must meet all relevant course prerequisites except class standing and certification. Waivers may be given for program courses completed as part of a previous undergraduate degree. Students with a non-business undergraduate degree may need to complete additional preparatory courses. All coursework must be taken for a letter grade and must be completed within eight years.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Postbaccalaureate Certificate:		
Marketing Research		Credits
STA 212	Statistics for Business Applications I	3
STA 213	Statistics for Business Applications II	3
ENG 340	Business Writing <i>Prerequisite: ENG 291 or equivalent</i>	3
MKT 205	Principles of Marketing	3
MKT 320	Consumer Behavior	3
MKT 392	Consumer Insights	3
MKT 492	Advanced Marketing Research	3
TOTAL CREDITS		21

Postbaccalaureate Certificate in Sports Business

The business of sport, whether amateur or professional, global, or local, continues to grow rapidly and provide a rich variety of career paths. This certificate program will prepare a student for a variety of entry-level career opportunities in sports business and recreation management. A small sampling of career paths in the sports industry includes event suppliers, event management and marketing, sports media, sports sponsorship, athlete services, sports commissions, sports lawyers, sports equipment manufacturing and distribution, sports and recreational facilities and facility suppliers, and team, league, and college athletics management and marketing.

Requirements for Postbaccalaureate Certificate:		
Sports Business		Credits
MKT 205	Principles of Marketing	3
SPB 200	Rivalry and Rituals: International Sport	3
SPB 305	Sports Marketing and Promotion	3
SPB 307	Moneyball: The Economics of Sports	3
SPB 340	Development and Fundraising Strategies in Sports	3
SPB 480	Sports Business Strategies and Policies	3
TOTAL CREDITS		18

COLLEGE OF EDUCATION AND HUMAN SERVICES

Location: Mathematics-Education-Psychology Center 206

Telephone: 859-572-6069 **Fax:** 859-572-6623

Email Address: coehsdean@nku.edu

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

Dean: Cynthia Reed

Other Key Personnel:

Associate Dean: Carol Ryan

Business Officer: Carole Ziegler

Grant Expeditor: Jen Stansbury-Koenig

Sr. Technology Support Specialist: Justin Bertsch

Administrative Secretary: Sheila Ruark

Welcome to the College of Education and Human Services. Our three departments, 15 undergraduate and graduate program areas, and doctor of education constitute extraordinarily diverse pathways for our students to achieve their educational goals while preparing for professional careers.

Our talented faculty and staff ensure that our programs have rigor, relevance, and sustainability of the highest caliber, and we pride ourselves on the quality of relationships we create and foster with students and colleagues alike. The collaborative effort of all of our partners increases the impact of our college across the region and the globe.

The College of Education and Human Services is an outstanding place for students, faculty, staff, alumni, and community partners to learn, teach, and work together. We are delighted that you have discovered us – and we invite you to explore the educational and experiential riches associated with our programs and exceptional faculty and staff.

College Advising Center

Location: Mathematics-Education-Psychology Center 230

Telephone: 859-572-6944

Web Address: <http://coehs.nku.edu/advising.html>

Advisors:

Josh Brittingham

Patsy Fisk

Deborah Henry

Dixie Leather

Krissie Sanborn

Christy Swanson

Staff:

Shirley Raleigh

Advisors in the COEHS Advising Center provide assistance and academic advising to students majoring in one of the college's undergraduate programs. Students in the College of Education and Human Services are assigned an advisor based on their major and last name. To schedule an appointment with an advisor, students should click on the advising appointment link (<http://coehs.nku.edu/advising/appointment.html>).

Departments

Counseling, Social Work, and Leadership

Kinesiology and Health

Teacher Education

Accreditations

The athletic training education program is accredited by the Commission on Accreditation of Athletic Training Education.

The undergraduate and graduate social work programs are accredited by the Council on Social Work Education.

The education/school counseling/educational leadership programs are accredited by the Council for the Accreditation of Educator Preparation.

The school counseling and clinical and mental health counseling programs are accredited by the Council for Accreditation of Counseling and Related Educational Programs.

Centers

Institute for Talent Development and Gifted Studies

Telephone: 859-572-5600

Email Address: gifted@nku.edu

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

Director: Kimberly Clayton-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://coehs.nku.edu/departments/counseling/training.html>

Director: David Wilkerson

The Training and Development Center is a unique community-based service and training program that provides low-cost mental health services to underserved residents of northern Kentucky. The program is operated by the Department of Counseling, Social Work, and Leadership and serves as a high-quality training site for NKU students. In collaboration with NKU faculty and community mental health, criminal justice, and addiction services agencies, the TDC provides practicum and internship training and professional development experiences for students while assisting clients who would otherwise fall through cracks in the existing services systems.

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.html>

<http://coehs.nku.edu/departments/counseling.html>

Department Chair: Verl Pope

Other Key Personnel:

Director of Human Services and Addictions: Jacqueline Smith

Director of Bachelor of Social Work: Caroline Macke

Director of Masters of Social Work: Holly Riffe

Director of School Counseling: Brett Zyromski

Director of Mental Health Counseling: Kerry Sebera

Director of Instructional Leadership: Rosa Weaver

Director of Ed.D.: Paul Wirtz

Department Coordinator: Kimberly Wiley

Academic Specialist: Michelle Dingler

Full-Time Faculty: James Allen, Jessica Averitt-Taylor, Susan Cook, Willie Elliott, Nancy Erwin, Dana Harley, Greg Hatchett, Vanessa Hunn, James Koschoreck, Christopher Lawrence, Caroline Macke, Tara McLendon, Holly Riffe, Mary Rozier, Kerry Sebera, Jennifer Sharp, Jacqueline Smith, Karen Tapp, Rodney Valandra, Rosa Weaver, Linda Wermeling, Paul Wirtz, Brett Zyromski

Undergraduate Programs:

Majors:

Bachelor of Science

Human Services and Addictions

Bachelor of Social Work

Social Work (Council on Social Work Education accredited)

Minors:

Human Services and Addictions

Social Justice Studies (see interdisciplinary section of catalog)

Focus:

Social Work

Human Services and Addictions Major

Thinking about the discipline: Human services work is both rewarding and challenging. "Human services worker" is a generic term for people who hold professional and paraprofessional positions in behavioral health and social services agencies. Human services workers provide a variety of services aimed at improving clients' lives. The type of assistance they offer varies by client group, the type of organization that employs these workers, and their role in the organization. Human services workers help people who are struggling with addictions that cut across several systems of care, including substance abuse, mental health and primary healthcare services, as well as a host of social services. Working closely with the client, human services workers identify problems and create a plan for services to help the client solve these problems. This may include providing direct assistance or helping clients in coordinating services, or both. These valuable experiences provide students with an opportunity to synthesize and apply the skills and knowledge gained from academic courses in real-world experiences.

The Bachelor of Science in human services and addictions at NKU 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 are exposed to classroom instruction and field experiences that prepare them to work with a diverse population of clients and a broad range of social, emotional, and behavioral issues and problems.

Students graduating with a Bachelor of Science in human services and addictions are prepared for positions in work settings such as mental health agencies, rehabilitation facilities, residential treatments programs, group homes, halfway houses, therapeutic recreation, daycare centers, after-school programs, substance abuse programs, rehabilitation settings, and a variety of programs serving the developmentally challenged and the elderly. In addition to required courses, students are offered an assortment of elective courses that are consistent with their specific areas of interest. Human services and addictions program graduates are also prepared for entrance into a master's degree program in counseling and other related fields.

Human services students and practitioners are guided by the National Organization for Human Services Code of Ethics. They are committed to improving the well-being of individuals, families, groups, communities, and organizations and furthering the goals of social justice.

Special opportunities for our students: Students are encouraged to join the Human Services Club to begin establishing a social and professional network within the human services field. The Human Services Club is student driven with a faculty advisor. The club provides opportunities to build relationships with community agencies, learn more about current social service issues, develop personal relationships with fellow classmates, increase leadership skills, and enhance the overall college experience. For further information about this student club, visit the COEHS student organizations webpage (<http://coehs.nku.edu/advising/organizations.html>).

- HSR students have scholarship opportunities for the major.
- HSR majors are encouraged to become a College of Education and Human Services student ambassador. COEHS student ambassadors demonstrate and further develop leadership skills while representing their college as well as the counseling and human services program at various university functions.
- Upon graduation, students will be eligible to apply to take the exam for the Human Services – Board Certified Practitioner national credential. The HS-BCP certifies that you have met the 11 core human services content areas, and that your education and experience are nationally recognized. It also demonstrates commitment to the practice of human services and helps professionalize the field of human services.

Special admission requirements: To be admitted students must: (1) be admitted to NKU; (2) successfully complete HSR 100; and (3) have a faculty recommendation and consent of instructor before enrolling in any practicum or field experience course. Field admission is selective.

Special graduation requirements: Students must successfully complete all required human services and addictions courses and all program-required supportive courses with a grade of C- or better and have a minimum GPA of 2.5 to graduate with a Bachelor of Science in human services and addictions.

You should also know: The human services and addictions program is part of the College of Education and Human Services, characterized by a commitment to community-based applied learning. The three field experience courses – "HSR 204: Field Experience and Seminar I", "HSR 304: Field Experience and Seminar II", and "HSR 404: Field Experience & Seminar III," include approximately 10 hours each week in a human services/behavioral healthcare agency for a minimum of 120 total placement hours (over 16 weeks) in addition to two-hour weekly seminar classes related to the field experience.

Degree Requirements: B.S. with a major in Human Services and Addictions

Courses in Human Services and Addiction		Credits
HSR 100	Orientation to Human Service Professions	3
HSR 105	Helping Skills and Techniques for Human Service Professionals	3
HSR 205	Case Management Skills for HSR Workers	3
HSR 216	Introduction to Group Work	3
HSR 300	Contemporary Issues: Mental Health	3
HSR 303	Multicultural Issues in Human Services	3
HSR 305	Assessment and Appraisal in Mental Health	3
HSR 306	Introduction to Gerontology	3
HSR 312	Crisis Intervention	3
HSR 330	Rehabilitation and Disability Services in Behavioral Healthcare	3
HSR 340	Alcoholism: Issues and Intervention	3
HSR 412	Leadership Skills for Small Groups	3
HSR 416	Intervention Theories and Skills for Case Managers	3
HSR 430	Human Services Administration	3
HSR 526	Family Centered Interventions and Practice	3
Required Field Practice:		
HSR 204	Field Experience and Seminar I	3
HSR 304	Field Experience and Seminar II	3
HSR 404	Field Experience and Seminar III	3
Courses from other disciplines:		
EDU 300	Human Growth and Development	3
SWK 407	Social Welfare Policy	3
TOTAL CREDITS		60

Specialized track/elective courses

Students majoring in human services and addictions may choose a specialty track to meet part of their elective requirements for graduation. Tracks consist of a set of approved courses leading to further study and specialized knowledge and skills to work in specialized settings or with special populations. Successfully completing the required core course and 9 additional credit hours of coursework in a specialty track will entitle students to identify a specialty as part of their baccalaureate degree.

Students may choose from among the six interdisciplinary tracks:

Mental Health Track

This track prepares students for entry-level positions in a variety of community-based human service agencies dedicated to the empowerment of clients with mental illness through education, case management, advocacy, paraprofessional counseling, and human services practice. Students interested in pursuing graduate work in counseling, social work, clinical psychology, or marriage and family therapy would also benefit from this specialty track. Certain graduate programs require various classes as prerequisites for admission. Students planning to enter a graduate program should become familiar with the prerequisites for their specific program.

Mental Health Track		Credits
HSR 416	Intervention Theories and Skills for Case Managers	3
HSR 321	Mental Health and Aging	3
PSY 330	Behavior Modification	3
PSY 333	Abnormal Psychology	3
TOTAL TRACK CREDITS		12
With prior approval of the program director, other courses may be included in this specialty track.		

Gerontology Track

This track serves as a valuable adjunct for students preparing to work directly or indirectly with older people. Job opportunities for students who have academic preparation in gerontology are available in community agencies and public and private organizations serving the older adult; e.g. long-term care facilities, hospitals, senior citizen living facilities, community recreation, and senior centers.

Gerontology Track		Credits
HSR 306	Introduction to Gerontology (required)	3
HSR 321	Mental Health and Aging	3
HSR 410	Psychosocial Forces in Late Life	3
HSC 413	Aging in Today's Society	3
TOTAL TRACK CREDITS		12
With prior approval of the program director, other courses may be included in this specialty track.		

Addictions Track

This specialty track offers courses for students planning to work with drug/alcohol-dependent clients and their families. With a concentration in substance abuse, students may become more attractive to employers of entry-level jobs in substance abuse centers (residential, detox, hospitals) and other addiction-related service provider settings. Once students complete a bachelor's degree in human services with this track, they may be eligible to take the Kentucky and Ohio Certification Exam if interested in pursuing certification/licensure.

Addictions Track		Credits
HSR 340	Alcoholism: Issues and Intervention (required)	3
HSR 450	Alcoholism: The Dysfunctional Family	3
HEA 320	Drug and Alcohol Education	3
SWK 525	Substance Use and Abuse	3
TOTAL TRACK CREDITS		12
With prior approval of the program director, other courses may be included in this specialty track.		

Administration Track

This specialty track prepares students to manage and assist in the administration of public and private organizations and a variety of professional activities including planning, consulting, and evaluating social services agencies that serve a variety of populations.

Administration Track		Credits
HSR 430	Human Services Administration (required)	3
HSR 431	Fundamentals of Nonprofit Management	3
LDR 300	Foundations of Leadership	3
LDR 382	Organizational Change	3
TOTAL TRACK CREDITS		12
With prior approval of the program director, other courses may be included in this specialty track.		

Disability Services Track

This specialty track is designed for students who are interested in serving, directly or indirectly, people with disabilities and their families. It prepares students for job opportunities in a variety of community agencies and public and private organizations serving persons with disabilities including mental health/mental retardation programs.

Disability Services Track		Credits
HSR 330	Rehabilitation and Disability Services in Behavioral Healthcare	3
Select three courses from the following*		
HSR 326	Behavior Problems of Children	3
EDS 561	Mental and Orthopedic Disabilities	3
EDS 570	Working with Families of Students with Disabilities	3
HSC 440	Issues in Chronic Disease Management	3
SOC 450	Medical Sociology	3
TOTAL TRACK CREDITS		12
*With prior approval of the program director, other courses may be included in this specialty track.		

Child and Family Services Track

This specialty track is intended for students interested in providing preservation, prevention, and advocacy services for children and their families through public and private human service facilities.

Child and Family Services Track		Credits
HSR 426	Family-Centered Interventions and Practice	3
Select three courses from the following*		
HSR 326	Behavior Problems of Children	3
SOC 315	Marriage and the Family	3
EDU 320	Working with Families of Young Children	3
PHI 394	Topics: Philosophy	3
TOTAL TRACK CREDITS		12
*With prior approval of the program director, other courses may be included in this specialty track.		

Human Services and Addictions Minor

The minor in human services and addictions is appropriate for students majoring in the behavioral, social, or health services or students interested in providing and arranging services for people to improve their quality of life. The minor requires successful completion of "HSR 100: Orientation to Human Services Professionals" and 18 additional credit hours of HSR courses including 6 credit hours in courses numbered 300 and above. A wide choice of HSR elective courses allows students to focus on their own specific interests. Field experience classes may not be taken for the minor. All credit hours toward the minor must be earned with a C or better.

Social Work Major

Thinking about the discipline: Individuals who desire to serve people should consider a career in social work. A degree in social work offers the potential to work as a licensed professional in a variety of helping professions. Social workers practice in schools, mental health and substance abuse facilities, hospitals, private practice, and child welfare agencies. Social workers can be community organizers, administrators, planners, and policy makers who develop and implement programs to address issues such as child abuse, homelessness, mental health and substance abuse, poverty, and violence. Social workers research and analyze policies, programs, and regulations. They identify social problems and advocate for solutions at the local, state, and federal level. Social work has never been in greater demand than it is today. Employment of social

workers is expected to increase at a greater rate than many other occupations.

The Bachelor of Social Work program provides education from a generalist perspective. Generalist practitioners are trained to work in a variety of settings. They view clients and client systems from a strengths perspective in order to recognize, support, and build upon the innate capabilities of all human beings. The program is accredited by the Council on Social Work Education. Graduates are awarded the degree of Bachelor of Social Work, providing them with the eligibility to test for state licensure. It also enables students to pursue advanced standing status in a Masters of Social Work program, which reduces M.S.W. program requirements by half.

Social work students and practitioners are guided by the National Association of Social Workers' code of ethics. They are committed to improving the well-being of individuals, families, groups, communities, and organizations and furthering the goals of social justice.

Special opportunities for our students: Social work majors have the following special opportunities:

- Public Child Welfare Certification Program. PCWCP is a selective-admission, pre-employment opportunity for social work majors that pays in-state tuition for the last three or four semesters and per-semester stipend benefits. PCWCP is a statewide collaboration among the Kentucky Cabinet for Health and Family Services and 11 Kentucky university social work programs. The purpose of the program is to provide B.S.W. students the opportunity to receive advanced training in the area of child welfare protection and permanency. Students accepted into PCWCP are required to become employed by KY DCBS child protection and permanency upon graduation and must complete a minimum of two years of employment.
- Scholarship opportunities for social work majors. Information is available from the Office of Student Financial Assistance.
- Membership in the Social Work Club. Students are encouraged to join the Social Work Club to begin establishing a positive network team within the field and build relationships with community agencies, learn more about current social welfare issues, develop strong personal relationships with fellow classmates, and enhance the overall college experience while increasing leadership skills. More information about the Social Work Club is available online (<http://coehs.nku.edu/programs/nkusocialwork.html>).
- Membership in Phi Alpha Honors Society demonstrates leadership among peers. The Phi Alpha Honors Society provides a closer bond among students of social work and humanitarian goals and ideals. Membership is offered to students who have achieved sophomore status and maintain an overall GPA of 3.00 and a 3.25 GPA in social work courses. Information about the Phi Alpha Honors Society is available here (<http://coehs.nku.edu/programs/social-work/action/phi-alpha-honors-society.html>).
- Social work majors are encouraged to join the social work listserv. Members of the listserv receive valuable information about upcoming events sponsored by the Social Work Club and Phi Alpha Honors Society as well as local agency events, projects, and job opportunities within the field. Subscribe to the listserv on the web (<http://listserv.nku.edu/mailman/listinfo/socialworkmajors>).
- Social work majors are encouraged to become COEHS student ambassadors. COEHS student ambassadors demonstrate and further develop leadership skills while representing their college as well as the social work program at various university functions. More information about student ambassador opportunities is available online (<http://coehs.nku.edu/advising/organizations.html>).

Special admission requirements: Students complete <http://coehs.nku.edu/advising/organizations.html> a selective admission process for acceptance into the social work program. Applications are accepted in all semesters. The requirements to submit an application for admission follow:

1. Declare social work as a major.
2. Have a minimum overall GPA of 2.75.
3. Complete the following courses with a grade of C- or higher (students may submit an application in the semester that they are enrolled in the last of these required courses):
 - a. "SWK 105: Social Work and the Community"
 - b. "SWK 106: Introduction to Social Justice"
 - c. "SWK 460: Ethics and Advocacy (may be taken before or after acceptance in the social work program.)"
 - d. STA 205, STA 113 or STA 212
 - e. One of the following biology courses: BIO 100G, BIO 120, BIO 123, BIO 125, BIO 126, BIO 208, or BIO 209.
4. Complete all of their Foundation of Knowledge general education courses with a grade of C- or higher.
5. Demonstrate an interest in, and aptitude for, a social work career.

Upon acceptance to the social work program, students are required to attend a mandatory admission meeting. Students are notified of the date and time of the meeting in their acceptance letter.

Special graduation requirements: Students may be removed from the social work program based on the following:

- Academic performance below the acceptable level of an overall GPA of at least 2.75 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 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 Experience I" and "SWK 408: Field Instruction II." These courses are offered consecutively in eight-week sessions for a block placement during the fall or spring semester. The courses include approximately 25 hours each week in a social service agency placement for a minimum of 400 total placement hours (over 16 weeks) in addition to weekly seminar classes related to the field experience.

Bachelor of Social Work

Degree Requirements: B.S.W.

Courses	Credits	
SWK 105 Social Work and the Community	3	
SWK 106 Introduction to Social Justice	3	
SWK 460 Ethics and Advocacy	3	
Select one course from the following:		
BIO 120 Understanding the Living World	3-4	
BIO 123 Human Ecology		
BIO 125 Biological Perspectives of Wellness		
BIO 126 Human Nutrition		
BIO 208 Human Anatomy and Physiology I		
BIO 209 Human Anatomy and Physiology II		
Select 3 STA credit hours	3	
SWK 303 Professional Interactional Skills	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 2: Family and Groups	3	
SWK 405 Social Work Practice: Community Organizations	3	
SWK 406 Field Experience I	5	
SWK 407 Social Welfare Policy	3	
SWK 408 Field Instruction II	5	
Select 9 credit hours from the following:		
SWK 394 Topics: Social Welfare	9	
SWK 411 Social Work and the Law: Part I		
SWK 515 Introduction to Child Maltreatment (PCWCP required)		
SWK 516 Child Welfare 2: Interventions (PCWCP required)		
SWK 450 Multicultural Issues		
SWK 455 Multicultural Family Experiences		
SWK 499 Independent Study		
SWK 510 Child Abuse		
SWK 520 Services to Women		
SWK 525 Substance Use and Abuse		
SWK 565 Compassion, Empathy, and Forgiveness		
SWK 594 Topics: Issues in Social Welfare		
TOTAL CREDITS 60-61		

Social Work Focus

Requirements for Focus: Social Work	Credits	
Select 12 credit hours from the following:		
SWK 411 Social Work and the Law: Part I	12	
SWK 510 Child Abuse		
SWK 515 Introduction to Child Maltreatment		
SWK 516 Child Welfare 2: Interventions		
SWK 520 Services to Women		
SWK 525 Substance Use and Abuse		
SWK 565 Compassion, Empathy, and Forgiveness		
SWK 594 Topics: Issues in Social Welfare		
TOTAL CREDITS 12		

Department of Kinesiology and Health

Location: Albright Health Center 105

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Department Chair: Alar Lipping

Other Key Personnel:

Athletic Training Program Director: Rachele Vogelpohl

Department Coordinator: Lisa Schultz

Full-Time Faculty: Matthew Asare, Gary Eippert, Hayley Ericksen, Mary Kirk, Roger Kollock, Alar Lipping, Will Peveler, Carol Ryan, Gabe Sanders, Rachele Vogelpohl

Undergraduate Programs:

Majors:

Bachelor of Science

Athletic Training (Accredited by the Commission on Accreditation of Athletic Training Education)

Exercise Science

Bachelor of Arts

Physical Education – P-12 Teacher Certification (Accredited by the National Council for Accreditation of Teacher Education)

Physical Education (non-certification track)

Minors:

Health Education – Teacher Certification (Accredited by the National Council for Accreditation of Teacher Education)

Health Education (non-certification)

Physical Education (Accredited by the National Council for Accreditation of Teacher Education)

Sports Medicine

Thinking about the discipline: Kinesiology, the study of human movement, has seen a surge in popularity over the last 20 years that experts attribute to its social relevance, its relation to the obesity epidemic, and the growing societal importance of sports and athletics. The kinesiology programs have evolved over the years to offer courses that extend beyond physical education and health to exercise science, exercise prescription, athletic training, motor development and learning, and biomechanics. Many students pursue traditional careers such as coaching or fitness instruction, but more than half pursue other quickly-growing allied health or medical professions such as athletic trainer, exercise science professional, cardiac rehabilitation specialist, physical therapist, occupational therapist or physician assistant. A new need for older adult and elementary/middle-school physical education teachers, coaches, and fitness instructors is also on the horizon, as the movement to improve health across the lifespan continues.

Special opportunities for our students: Students are encouraged to join the department's Kinesiology Club or Athletic Training Club. Each club promotes an appreciation of, a commitment to, involvement in, and professional responsibility to the stated field of kinesiology. Students participate in such activities as: attending workshops, conferences, conventions, seminars, and institutions; community services; supporting events in the areas of athletic training, exercise science, and physical education/health; and serving as ambassadors for NKU to state, district, and national professional organizations.

You should also know: To remain in the athletic training education program or the exercise science program, students must maintain an overall GPA of at least 2.50. To be admitted to an education program students must maintain an overall GPA of at least 2.75.

In addition, students majoring in one of the education disciplines (for example, physical education) must apply for admission to the teacher education program. The admission process is described in detail in the teacher education section of the catalog. Students majoring in athletic training must also apply for admission to the athletic training program.

Kinesiology and Health Majors

Exercise Science

Bachelor of Science with a major in Exercise Science

Students who major in exercise science focus on the study of human movement within a biomechanical and physiological context; including aspects of anatomy, physiology, chemistry, physics, biology, nutrition and applied training principles. An exercise science degree prepares students for jobs in the fields of strength and conditioning, clinical exercise physiology (cardiac rehabilitation, pulmonary rehabilitation, etc.), sport performance, human performance (military, police, fire fighters, etc.) and applied research. Pre-professional programs that fit well with an exercise science degree are: physical therapy, occupational therapy, and prosthetics. A grade of C- or higher is required in all major coursework for exercise science undergraduate majors. If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Exercise Science

Courses in Kinesiology and Health		Credits
HEA 135	Safety and First Aid	3
KIN 125	Introduction to Physical Education, Fitness, and Sport	3
KIN 200	Concepts of Lifetime Fitness	2
KIN 260	Introduction to Strength and Conditioning	3
KIN 313	Computer Applications for Health and Kinesiology	2
KIN 295	Anatomical Kinesiology	3
KIN 320	Motor Learning and Performance	3
KIN 330	Motor Development	3
KIN 340 KIN 340L	Exercise Physiology and Exercise Physiology Lab	4
KIN 349	Exercise Prescription	4
KIN 360	Statistics and Measurement in Kinesiology <i>Prerequisite: MAHD 099 or acceptable placement score</i>	3
KIN 370	Biomechanics	3
KIN 380	Clinical Exercise Physiology	3
KIN 450	Organization and Administration of Kinesiology and Athletics	3
KIN 481	Nutrition for Sport and Exercise	3
KIN 483	Advanced Strength and Conditioning	3
KIN 498	Research, Trends and Issues in Exercise Science	2
KIN 496	Internship in Exercise Science -- OR --	9
KIN 497	Exercise Science Senior Synthesis (3 credit hours) AND 6 KIN credit hours 300 level or above	
Electives: Select 300/400/500-level 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 <i>Prerequisites: High school chemistry and minimum score of 19 on ACT mathematics section or equivalent; or C- or better in CHE 102</i>	4
PHY 110	Introduction to Physics with Laboratory <i>Prerequisite: MAHD 099</i>	4
Credits in Other Disciplines		19
TOTAL CREDITS		84

Athletic Training

Bachelor of Science with a major in Athletic Training

Thinking about the discipline: Athletic training encompasses the prevention, diagnosis, and intervention of emergency, acute, and chronic medical conditions involving impairment, functional limitations, and disabilities. The mission of the athletic training education program 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 credit hours).
- Have completed pre-professional coursework with a minimum grade of C-.
- Have a cumulative GPA of 2.50 or above.
- Have completed clinical observation as part of "ATP 280: Pre-Athletic Training."
- Meet technical standards for minimum mental and physical function.
- Complete CPR and AED for the rescuer.
- Have safety and first-aid certification.
- Return a negative TB test (annually).
- Complete a physical examination (completed with ATEP form).
- Submit immunization records (must have current HBV).
- Successfully complete a background check through NKU University Police Department. (Allow a minimum of six to eight weeks to process.)
- Have primary health insurance coverage.
- Produce college-level transcripts.

Any student wishing to apply for admission into ATEP must complete a two-part process.

Step 1: Pre-professional

Students must choose pre-athletic training (XATH) as their major and successfully complete selected coursework and directed observation. The coursework consists of eight classes for a total of 20 hours. Students must receive a minimum grade of C- for each pre-professional course and

attain a cumulative GPA of 2.50 to be eligible for admission. The pre-professional courses are:

- ATP 200: Medical History and Documentation (1 credit hour)
- ATP 201: Goniometry, Range of Motion, and Manual Muscle Testing (1 credit hour)
- ATP 280: Pre-Athletic Training (2 credit hours)
- PSY 100: Introduction to Psychology (3 credit hours)
- BIO 126: Human Nutrition (3 credit hours)
- HEA 135: Safety and First Aid (3 credit hours)
- KIN 280: Basic Recognition and Care of Athletic Injuries (3 credit hours)
- BIO 208/208L: Human Anatomy and Physiology I with Laboratory (4 credit hours)

As part of "ATP 280 Pre-Athletic Training," students will complete 30 clock hours of directed observation at sites selected by ATEP faculty. Clinical supervisors assess students on a general performance evaluation, and the results are used as part of the admission process. For more information or to obtain the evaluation forms, contact the ATEP director, Rachele Vogelpohl at vogelpohlr@nku.edu.

Step 2: Formal application

Formal program application and admission occur during the fall semester as part of "ATP 280 Pre-Athletic Training." To be eligible for formal application, the student must attain at least sophomore standing (30 credit hours) and satisfactorily complete the pre-professional stage. The ATEP application deadline is October 31 for fall admission and March 31 for spring admission. The application must include a typed (one page, double spaced, font size 10 points) written sample addressing the following: "What do you believe is the most important attribute of an athletic trainer as an allied healthcare provider, and what attributes do you possess that will allow you to fulfill the role of an athletic trainer?" The student is required to provide transcripts or proof of satisfactory completion of the pre-professional stage.

The ATEP has limited and selective enrollment. The program has a set maximum for total student enrollment. Annual available positions will be determined according to the set maximum for program positions and the positions that became available through graduation and attrition. Students who fulfill the minimum requirements for formal application are chosen by objective selection criteria based on four parts: cumulative GPA, pre-professional coursework grades, evaluations by supervising ATCs during directed observation, and quality of application. Each portion of the criteria has been weighted according to its importance as determined by the NKU faculty and staff. The weightings are as follows:

- 25 percent cumulative GPA.
- 25 percent pre-professional coursework grades.
- 35 percent observation evaluations.
- 15 percent application quality.

Each section is given a numerical score. The section scores are totaled to produce an overall score to objectively rank the students. Available positions will be filled from the highest-ranked applicant down until all positions are filled. Rejected students will be afforded the opportunity to reapply during the next application period. Accepted students will have the option to begin clinical rotations the spring semester following admission to the ATEP.

The NKU technical standards represent the mental and physical requirements necessary for a student to successfully participate in and complete the NKU ATEP program. The guidelines are designed to reflect the necessary skills identified for the entry-level athletic trainer as detailed in the National Association of Training's Board of Certification Role

Delineation Study. A student must meet the requirements for admission, retention, and graduation.

Transfer students should contact the ATEP director, Rachele Vogelpohl at vogelpohra@nku.edu, for details regarding course transfer and program admission eligibility.

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:
Laboratory fee: \$40 assessed for ATP 280.
- **Additional fees:**
 - A Criminal History Background Check must be purchased for \$38 prior to enrolling in ATP 280.
 - Once admitted into the ATEP program, students are required to purchase Professional Liability Insurance annually.
 - Students are required to purchase the National Athletic Trainers' Association professional membership annually.
- **Physical examination:** ATEP students are required to complete an annual physical examination to ensure their health and physical fitness will allow them to complete the duties required of an athletic trainer.
- **TB test:** ATEP students are required to complete an annual TB skin test.
- **Hepatitis B vaccination:** Hepatitis B vaccination is required for ATEP admission. The student is responsible for the cost.
- **BOC examination:** Students are encouraged to complete the BOC examination, but it is not a requirement for graduation.

Bachelor of Science with a major in Athletic Training (clinical education program)

The Bachelor of Science in athletic training is a professional degree program with an integrated clinical education component. The coursework provides formal instruction aligned with the National Athletic Trainers' Association educational competencies and clinical proficiencies. The program has an embedded focus in exercise science. Athletic training students do not need to complete a separate minor or focus for graduation.

The clinical practicum courses (ATP 366, ATP 367, ATP 466, ATP 467) provide students with an application of knowledge and skill in a real-world patient-care setting. Students are placed with an approved preceptor at a clinical site (on and off campus) that reflects the educational content specified in the clinical practicum course. Each practicum has required clinical hours as specified in the course description.

Each of the four practicum experiences has different educational goals, and only certain clinical sites offer the equipment and personnel to meet specific needs. NKU ATEP has a total number of approved preceptors and clinical sites that determines the number of students who can be placed in any given semester. Students with complete documentation will be placed first.

Students must inform the clinical coordinator no later than March 1 for the fall placement and no later than October 1 for a winter/spring placement.

All documentation listed under the admissions requirements is required for clinical placement. Several documents have expiration dates (i.e. CPR certification, first-aid certification, primary insurance, TB test). These

documents or certifications are the responsibility of the student and must be provided prior to clinical placement.

A complete description of admission and clinical placement procedures is provided in the ATEP Policies and Procedures Manual which is available online (<http://coehs.nku.edu/content/dam/coehs/docs/departments/11-10%20ATEP%20Policies%20and%20Procedures.pdf>).

Degree Requirements: B.S. – Athletic Training (clinical education program)

Courses in Athletic Training		Credits
ATP 200	Medical History and Documentation	1
ATP 201	Goniometry, Range of Motion, and Manual Muscle Testing	1
ATP 280	Pre-Athletic Training	2
ATP 333	Lower Extremity Evaluation	2
ATP 333L	Lower Extremity Evaluation Laboratory	1
ATP 334	Upper Extremity Evaluation	2
ATP 334L	Upper Extremity Evaluation Laboratory	1
ATP 335	Head and Spine Evaluation	3
ATP 350	Athletic Training Junior Seminar	1
ATP 366	Athletic Training Clinical Practicum I	1
ATP 367	Athletic Training Clinical Practicum II	3
ATP 420	General Medical for Athletic Training	3
ATP 425	Therapeutic Modalities	3
ATP 425L	Therapeutic Modalities Laboratory	1
ATP 430	Pharmacology for Athletic Training	3
ATP 435	Administration of Athletic Healthcare	3
ATP 440	Rehabilitation of Athletic Injuries	3
ATP 440L	Rehabilitation of Athletic Injuries Laboratory	1
ATP 450	Senior Teaching Seminar	1
ATP 455	Current Issues in Athletic Training	3
ATP 466	Athletic Training Clinical Practicum III A	12
ATP 467	Athletic Training Clinical Practicum III B	1
Credits in Athletic Training		52
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
HEA 135	Safety and First Aid	3
KIN 200	Concepts of Lifetime Fitness	2
KIN 280	Basic Recognition and Care of Athletic Injuries	3
KIN 360	Statistics and Measurements -- OR --	3
STA 205	Introduction to Statistical Methods <i>STA 205 may count as a mathematics general education course.</i>	
KIN 370	Biomechanics	3
KIN 340	Exercise Physiology and	
KIN 340L	Exercise Physiology Lab	4
KIN 260	Introduction to Strength and Conditioning -- OR --	3-4
KIN 349	Exercise Prescription	
PSY 100	Introduction to Psychology	3
PSY 405	Counseling Psychology	3
Elective		3
Credits in Other Disciplines		41 or 42
TOTAL CREDITS		93 or 94

Physical Education

Bachelor of Arts with a major in Physical Education (leading to P-12 teaching certification)

The physical education major prepares students to be effective physical education teachers at the elementary, middle, and secondary levels through a strong content and pedagogy curriculum. Students are well prepared to pass state certification exams and to apply for and achieve multi-state teaching certification. During each semester of the junior year and the first semester of the senior year, teacher candidates spend a minimum of 75 hours observing and teaching under the supervision of a certified physical education teacher 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 in majoring in physical education should first declare pre-physical education as a major and sign up to meet with an advisor in the College of Education and Human Services advising center 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:

- Earn 60 hours of course credit with an overall GPA of a 2.75 or higher
- Earn a minimum score of 174 on the Praxis I mathematics and writing exams; and a minimum score of 176 on the Praxis I reading exam
- Complete "CMST 101: Public Speaking" with a grade of *B* or better
- Complete "ENG 291: Advanced College Writing" with a grade of *B* or better
- Pass "EDU 104: Orientation: Education Profession/Program"

To continue into the next professional semester, students must:

- Successfully complete each of the professional semester course requirements with a *C* or better
- Complete a portfolio with an "approved" rating.

To be eligible to student teach, students must:

- Successfully complete professional semesters I, II, and III
- Maintain a 2.75 or higher overall GPA
- Maintain a GPA of 2.75 or higher in the major core content courses and the professional education courses

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.A. – Physical Education leading to P-12 teaching certification

Courses in Kinesiology and Health		Credits
KIN 125	Introduction to Physical Education, Fitness, and Sport	3
HEA 135	Safety and First Aid	3
KIN 200	Concepts of Lifetime Fitness	2
KIN 313	Computer Applications for Health and Kinesiology	2
KIN 320	Motor Learning and Performance	3
KIN 330	Motor Development	3
KIN 370	Biomechanics	3
KIN 340 and KIN 340L	Exercise Physiology and Exercise Physiology Lab	4
KIN 360	Statistics and Measurement in Kinesiology	3
KIN 385	Sociological and Psychological Dimensions of Sport and Physical Activity	3
Credits in Kinesiology and Health		29
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	Field Experiences in Elementary Physical Education	2
PHE 491	Field Experiences in Middle School and Secondary Physical Education	1
PHE 500	Adapted Physical Education	3
Credits in Physical Education		28
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	Admission Field Experience Secondary	2
Students must apply for acceptance to the teacher education program during the semester of admission. Requirements for application: 2.75 or above overall GPA; PPST scores as stated in the teacher education section of the catalog.		
EDU 496	Clinical Experience Secondary	12
BIO 208/208L	Human Anatomy and Physiology I with Laboratory	4
BIO 209/209L	Human Anatomy and Physiology II with Laboratory	4
Credits in Other Disciplines		31
TOTAL CREDITS		88

Bachelor of Arts with a major in Physical Education (non-certification track)

The physical education non-certification program prepares students to work with children and youth in YMCA community recreation centers, family fitness and sports centers, after school programs and summer camps. The program consists of courses in sports skills (individual, dual and team sports), biomechanics, exercise science, health education and other kinesiology related courses. The final course in the program is a 600

hour community-based internship that is affiliated with community centers, health clubs and YMCA's where students receive on the job training as part of their fieldwork experiences.

Degree Requirements: B.A. – Physical Education – non-certification

Courses in Kinesiology and Health		Credits
KIN 125	Introduction to Physical Education, Fitness, and Sport	3
HEA 135	Safety and First Aid	3
KIN 200	Concepts of Lifetime Fitness	2
KIN 313	Computer Applications for Health and Kinesiology	2
KIN 320	Motor Learning and Performance	3
KIN 330	Motor Development	3
KIN 370	Biomechanics	3
KIN 340 and KIN 340L	Exercise Physiology and Exercise Physiology Lab	4
KIN 360	Statistics and Measurement in Kinesiology	3
KIN 385	Sociological and Psychological Dimensions of Sport and Physical Activity	3
KIN 450	Organization and Administration of Kinesiology and Athletics	3
Credits in Kinesiology and Health		32
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 390	Practicum in Recreational Leadership	3
PHE 492	Internship in Recreational Leadership	12
PHE 500	Adapted Physical Education	3
Select approved electives in PHE, KIN, HEA, EDU		11
Credits in Physical Education		47
Courses in Other Disciplines		
BIO 208/208L	Human Anatomy and Physiology I with Laboratory	4
BIO 209/209L	Human Anatomy and Physiology II with Laboratory	4
Credits in Other Disciplines		8
TOTAL CREDITS		87

Kinesiology and Health Minors

Minor in Health Education

The kinesiology and health department offers two tracks in the health education minor:

- Health education – P-12 teaching certification
- Health education – non-certification

Those students who wish to apply for P-12 teaching certification in health education should complete the requirements for the P-12 certification track minor. They must be admitted to the teacher education program before completing "HEA 525: Methods and Materials in Health Education" and "HEA 489: Field Experiences in Health Education." Only those undergraduate students who are seeking a major in another education certification area may complete this minor track. Those who have already

earned a teaching certificate in another content area may pursue the health education certification as postbaccalaureate students.

It is highly recommended that students who are majoring in physical education also complete the health education P-12 certification minor program. Most school districts hire physical education teachers who are also certified to teach health education. Students in this program must maintain an overall GPA of 2.75 or better and receive a C or better in all program courses.

Those students who are interested in the area of health are encouraged to complete the health education minor program.

Requirements for Minor: Health Education – non-certification track		Credits
HEA 125	Introduction to Health Education	3
HEA 135	Safety and First Aid	3
HEA 230	Personal Health and Wellness	3
KIN 200	Concepts of Lifetime Fitness	2
HEA 270	Community Health	3
HEA 320	Drug and Alcohol Education	3
HEA 350	Sexuality Education	3
BIO 126	Human Nutrition	3
BIO 208/208L*	Human Anatomy and Physiology I with Laboratory	4
BIO 209/209L	Human Anatomy and Physiology II with Laboratory	4
**"BIO 121: Diseases and the Systems They Affect" may be substituted for "BIO 208: Human Anatomy and Physiology I" and "BIO 209: Human Anatomy and Physiology II" if not a physical education major; "BIO 121 Diseases and the Systems They Affect" is not required for a physical education major.		
TOTAL TRACK CREDITS		31

Requirements for Minor: Health Education – teacher certification track		Credits
All courses listed above for non-certification minor		31
KIN 313	Computer Applications for Health and Kinesiology	2
HEA 250	Health Education for Elementary Teachers	2
HEA 489	Field Experiences in Health Education	1
HEA 525	Methods and Materials in Health Education	3
EDU 104	Orientation: Education Profession/Program	1
EDU 300	Human Growth and Development	3
EDU 305	Introduction to Education	2
EDU 311	Admission Field Experience Secondary	2
EDS 322	Planning and Implementing Instruction for Students with Exceptionalities	3
EDU 496	Clinical Experience Secondary (required for all education majors or postbaccalaureate students to teach a minimum of one health course during their 12-credit-hour student-teaching semester)	12
TOTAL TRACK CREDITS		62

Minor in Physical Education

The minor in physical education is offered as an option for students interested in the field of physical activity. The courses provide an initial level of training appropriate for an academic minor at NKU. The physical education minor does not result in certification to teach physical education in the schools. Students must achieve a GPA of at least a 2.50 in the PHE, KIN, and HEA courses listed below.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Physical Education		Credits
KIN 125	Introduction to Physical Education, Fitness, and Sport	3
HEA 135	Safety and First Aid	3
KIN 200	Concepts of Lifetime Fitness	2
PHE 234	Team Sports	3
PHE 235	Individual and Dual Sports	3
KIN 330	Motor Development	3
KIN 340	Exercise Physiology <i>Prerequisites: BIO 208/208L</i>	4
KIN 349	Exercise Prescription	4
KIN 360	Statistics and Measurement in Kinesiology <i>Prerequisite: MAHD 099 or acceptable placement score.</i>	4
TOTAL CREDITS		28

Minor in Sports Medicine

The minor in sports medicine is an excellent opportunity to attain a clinical understanding of evaluation, treatment, and rehabilitation of orthopedic and sport-related injuries or illnesses for students who don't wish to pursue an athletic training degree. This would be a good choice for students majoring in pre-physical therapy, exercise science, physical education, or pre-medicine.

Students select 21 credit hours from the coursework below. Students must complete "KIN 280: Basic Recognition and Care of Athletic Injuries" before taking other ATP coursework. ATEP admission is not required.

Students who obtain this minor are not eligible for board certification as an athletic trainer.

For more information, students should contact the ATEP director, Rachele Vogelpohl, at vogelpohlra@nku.edu.

Requirements for Minor: Sports Medicine		Credits	
KIN 280	Basic Recognition and Care of Athletic Injuries	3	
Select 18 credit hours from the following*:			
ATP 333	Lower Extremity Evaluation with Laboratory	18	
ATP 333L			
ATP 334/	Upper Extremity Evaluation with Laboratory		
ATP 334L			
ATP 335	Head and Spine Evaluation		
ATP 420	General Medical for Athletic Training		
ATP 425/	Therapeutic Modalities with Laboratory		
ATP 425L			
ATP 440/ATP	Rehabilitation of Athletic Injuries with Laboratory		
440L			
ATP 435	Administration of Athletic Healthcare		
KIN 260	Introduction to Strength and Conditioning		
KIN 370	Biomechanics		
KIN 340	Exercise Physiology		
KIN 349	Exercise Prescription		
*Many of the courses listed here have prerequisites. The most common are BIO 208/208L Human Anatomy and Physiology I with Laboratory (4 credit hours), and BIO 209/209L Human Anatomy and Physiology II with Laboratory (4 credit hours). Check with an advisor for more information.			
TOTAL PROGRAM CREDITS			21

Department of Teacher Education

Location: Mathematics-Education-Psychology Center 251

Telephone: 859-572-5624 **Fax:** 859-572-6096

Email Address: teachereducation@nku.edu

Web Address: <http://coehs.nku.edu/departments/teachered.html>

Department Chair: Shawn Faulkner

Other Key Personnel:

Assistant Chair (undergraduate): Sara Runge

Assistant Chair (graduate): Lenore Kinne

Department Coordinator: Beth McCubbin

Administrative Secretary: Rebecca Cox

Full-Time Faculty: Patricia Bills, David Childs, Kimberly Code, Chris Cook, Steve Crites, Denise Dallmer, Shawn Faulkner, Doug Feldmann, Jaesook Gilbert, Susan Griebing, John Huss, Missy Jones, Sarah Kasten, Lenore Kinne, Ellen Maddin, Jill Niemeyer, Bianca Prather-Jones, Porsha Robinson-Ervin, Sara Runge, Tammie Sherry, Lynne Smith, Jonathan Thomas, Brandelyn Tosolt, Stephen Walker

Undergraduate Programs:

Majors with Certification:

Bachelor of Arts

Early Childhood Education (birth to kindergarten)

Elementary Education (P-5)

Middle Grades Education (5-9)

English/Communications Track

Mathematics Track

Science Track

Social Studies Track

Special Education (P-12)

Secondary Education (degree name determined by major):

Art (P-12)

Biology (8-12)

Chemistry (8-12)

Earth/Space Science (8-12)

English (8-12)

Health Education (P-12) – must be paired with another certification area

Mathematics (8-12)

Music (P-12)

Physical Education (P-12)

Physics (8-12)

Social Studies (8-12)

World Languages (P-12): French, Spanish, German

Certification Programs:

Middle Grades Extension

Non-Certification Program:

Early Childhood Education (birth to kindergarten)

Thinking about the discipline: Completing a major in the Department of Teacher Education is the first step in attaining teacher certification in Kentucky. To become a teacher, preparation is required in four areas:

1. A broad, comprehensive background in the liberal arts.
2. Training in pedagogy through a sequence of professional courses.
3. Extensive field and clinical experiences provided by the university in cooperation with local school systems.
4. In-depth preparation in the content area(s) leading to certification.

Initial certification of all new teachers requires successful completion of appropriate PRAXIS examinations prior to certification and completion of

an internship program. The PRAXIS examinations are administered by the Educational Testing Service, and internship components are administered by the Kentucky Education Professional Standards Board. Neither the PRAXIS examinations nor the internship are considered part of the NKU teacher education program. Upon successful completion of the required PRAXIS examinations, students must complete a 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 Education Professional Standards Board.

Students who plan to teach in other states should work closely with the teacher education certification officer in Mathematics-Education-Psychology Center 230 to determine the requirements in those states with reference to reciprocity.

Changes may be made in the teacher education programs to meet state certification requirements. Students must obtain the current program requirements from the advising office. The advising process is particularly crucial for teacher education students. It is suggested that freshmen 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 Professional Student Education Organization, Student Council for Exceptional Children, Early Childhood Education Club, and Collegiate Middle Level Association. In addition, students interested in exploring a study-abroad opportunity may consider the honors program or international student teaching.

Multiple scholarships and awards are available to teacher education students. Details are available on the College of Education and Human Services website.

Special admission requirements: Students who wish to major in one of the education disciplines must apply for admission to the teacher education program. This is a two-step process.

First step: Admissions field experience

To apply for the admissions field experience (EDU 303, EDU 307, EDU 309, or EDU 311) a student must have:

1. Successfully completed an FBI background check.
2. Successfully completed "EDU 104: Orientation: Education Profession/Program" with a grade of C.
3. Attained a GPA of at least 2.75 on a 4.00 scale, or GPA of 3.0 on last 30 credit hours.
4. Earned a minimum of 45 credit hours of coursework.
5. Completed the required application for admission.
6. Achieved the minimum score required by state regulations on the PRAXIS Core exam:
 - a. Mathematics (5732) – Score: 150
 - b. Reading (5712) – Score: 156
 - c. Writing (5722) – Score: 162

Second step: Admission to the teacher education program

To be admitted to the teacher education program a student must have:

1. Earned 60 credit hours of coursework.
2. Attained a cumulative GPA of at least 2.75 on a 4.00 scale, or GPA of 3.0 on last 30 credit hours.

3. Achieved at least a *B* in "ENG 291: Advanced College Writing" or equivalent.
4. Achieved at least a *B* in "CMST 101: Public Speaking" or equivalent.
5. Achieved at least a *C* in each of the following: "EDU 300: Human Growth and Development," "EDU 305: Introduction to Education," "EDU 313: Instructional Technology," and "EDS 360: Students with Exceptionalities in School."
6. Achieved a *P* in the admissions field experience (EDU 303, EDU 307, EDU 309, or EDU 311).
7. Filed three positive teacher education recommendation forms completed by professional educators.
8. Signed a curriculum contract.
9. Received approval from the Teacher Education Committee.
10. Presented an approved portfolio from the admissions field experience.
11. Demonstrated the skills of communication, creativity, critical thinking, and collaboration as required by state regulation. These may be demonstrated in the following manner:
 - a. Communication: Completion of CMST 101 or ENG 291 with a grade of *B* or better.
 - b. Creativity: Completion of any course under "culture and creativity: arts and humanities" with a grade of *C* or better.
 - c. Critical Thinking: Completion of any course under "scientific and quantitative inquiry: natural science or mathematics and statistics" or any course from "self and society: individual and society" with a grade of *C* or better.
 - d. Collaboration: Completion of the admissions field experience with a grade of *P*.

You should also know: At the time of graduation, all students in teacher education programs must meet the following requirements:

1. Overall GPA of 2.75.
2. Pedagogy (EDU and EDS courses) GPA of 2.75.
3. Content course GPA of 2.75.
4. NKU coursework GPA of 2.75.
5. Minimum grade of *C* (not *C-*) in all education (EDS / EDU) courses.

Teacher Education Majors

Bachelor of Arts with a major in Early Childhood Education (birth-kindergarten)

The early childhood education (birth to kindergarten) program leads to the Bachelor of Arts. Candidates may choose from two options to complete this degree: (1) interdisciplinary early childhood education certification track and (2) non-certification track. Students who wish to be certified to teach in Kentucky's state-funded, public school, pre-kindergarten classrooms (serving 3- to 5-year-olds with and without disabilities) or in Kentucky's early intervention system, First Steps (serving birth to 3-year-olds with disabilities), should declare a pre-major or major in IECE certification track. Candidates who wish to work in community childcare programs, Head Start, or Early Head Start programs, Kentucky's Quality Rating System, STARS, or home visitation programs should select the non-certification track.

Those seeking the non-certification track should consult with an advisor about special application and admission requirements.

Degree Requirements: B.A. – Early Childhood Education

Core Courses in Teacher Education	Credits
EDU 104 Orientation: Education Profession/Program <i>EDU 104 is a prerequisite course for all other EDU and EDS courses except EDU 300 and EDS 360.</i>	1

EDU 300	Human Growth and Development	3
EDU 301	Interpersonal Interaction and Guidance	3
EDU 305	Introduction to Education	2
EDU 313	Instructional Technology	2
EDU 320	Working with Families of Young Children	3
EDU 395	IECE Field Experience I	3
EDU 397	IECE Field Experience 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 565	Early Childhood Assessments for Screening	3
EDU 566	Ongoing Assessment in Early Childhood Education	3
EDU 567	Math and Science Exploration: Prek-3rd	3
EDU 568	Administration and Supervision in Early Childhood Education	3
EDU 569	Kindergarten Education and Programming	3
EDS 363	Applied Behavior Analysis for Students with Disabilities	3
EDS 570	Working with Families of Students with Disabilities	3
EDS 360	Students with Exceptionalities in School	3
EDS 562	Early Childhood Special Education Programs	3
Core Credits in Teacher Education		59
Core Courses in Other Disciplines		
PSY 100	Introduction to Psychology*	3
CMST 101	Public Speaking*	3
Select two ENG courses (may be met through general education requirements)		6
KIN 330	Motor Development	3
Core Credits in Other Disciplines		15
TOTAL CORE CREDITS		74
*These courses fulfill general education requirements in Individual and Society, Oral Communication, and Natural Science.		

IECE Certification Track	Credits	
EDS 363	Behavior Management Strategies for Young Child	3
EDS 551	Assistive Technology in the Classroom	3
EDU 303	Admission Field Experience IECE	2
EDU 491	Clinical Experience in IECE	12
Electives		Varies
TOTAL TRACK CREDITS		Varies

Non-Certification Track	Credits	
EDU 490	Non-certification Final Field Experience	6
EDU 567	Math and Science Exploration: Prek-3rd	3
EDU 569	Kindergarten Education and Programming	3
EDS 363	Behavior Management Strategies for Young Child	3
ENTP 150	Overview of Accounting	3
SWK 510	Child Abuse	3
Electives		Varies
TOTAL TRACK CREDITS		Varies

Bachelor of Arts with a major in Elementary Education (P-5)

The elementary education (P-5) program leads to the bachelor of arts. The advising process is particularly crucial for teacher education students. Students wishing to enroll in the elementary education program must follow the admission guidelines for teacher education programs outlined by the College of Education and Human Services. It is suggested that freshmen or other interested students declare a pre-major in elementary education. This procedure will result in assignment to a teacher education advisor familiar with the current curricular and admission requirements and with any impending changes that may occur prior to the student's admission semester. Upon successful completion of this program, the graduate will qualify for an institutional recommendation for a Kentucky Provisional Certificate for teaching in the elementary grades (P-5). If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.A. – Elementary Education

Courses in Teacher Education		Credits
EDU 104	Orientation: Education Profession/Program <i>EDU 104 is a prerequisite course for all other EDU and EDS courses except EDU 300 and EDS 360.</i>	1
EDU 300	Human Growth and Development	3
EDU 302	Teaching of Reading	3
EDU 305	Introduction to Education	2
EDU 306	Teaching Elementary School Mathematics	3
EDU 307	Admission Field Experience Elementary	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 Field Experience I	2
EDU 392	Elementary Field Experience II	2
EDU 494	Clinical Experience Elementary	12
EDS 322	Planning and Implementing Instruction for Students with Exceptionalities	3
EDS 360	Students with Exceptionalities in School	3
Credits in Teacher Education		52
Courses in Other Disciplines		
PSY 100	Introduction to Psychology *	3
CMST 101	Public Speaking*	3
STA 113	Introduction to Probability and Statistics*	3
BIO 120/ 120L	Understanding the Living World with Laboratory*	4
SCI 110	Integrative Natural Science*	4
ARTE 280	Art for Elementary Education	3
ENG 386	Children's Literature	3
HEA 250	Health Education for Elementary Teachers	2
MAT 140	Mathematics for Elementary and Middle Grades Teachers I <i>Prerequisite: Math \geq ACT 19 or MAHD 095</i>	3
MAT 141	Mathematics for Elementary and Middle Grades Teachers II <i>Prerequisite: Math ACT \geq 20 or MAHD 091 and MAT 140</i>	3

MUS 260	Music Fundamentals and Skills for Classroom Teachers	3
PHE 250	Physical Education for Elementary Teachers	2
Electives		6
<i>Prerequisite for Professional Semester II: One HIS course and one GEO course</i>		
Credits in Other Disciplines		42
TOTAL CREDITS		94
Elementary Education with Special Education: Those pursuing an elementary education major may also choose to concurrently complete a second major in special education. For courses leading to certification in special education, refer to the bachelor of arts with a major in special education program description.		
*These courses fulfill general education requirements in Individual and Society, Oral Communication, Mathematics and Statistics, and Natural Science.		

Bachelor of Arts with a major in Middle Grades Education (5-9)

Successful completion of the middle grades education (5-9) program leads to the Bachelor of Arts and is the first step toward attaining certification to teach in grades 5-9 in Kentucky. Students wishing to enroll in the middle grades program must follow the admission guidelines for teacher education programs outlined by the College of Education and Human Services. It is suggested that freshmen or other interested students declare a pre-education major in middle grades education. Doing so will enable the student to be assigned to a teacher education advisor. The advisor will be familiar with the current curriculum and admission requirements as well as any impending changes that may occur prior to the student's admission semester. Students pursuing a middle grades education program must complete at least two of the following teaching fields: English and communication, mathematics, science, social studies, or special education. Special Education must be completed as a second major. See Bachelor of Arts with a Major in Special Education (P-12). Upon successful completion of this program, the graduate will qualify for an institutional recommendation for a Kentucky Provisional Certificate for teaching in the middle grades (5-9), with appropriate teaching fields.

Degree Requirements: B. A. – Middle Grades Education

Core Courses in Teacher Education		Credits
EDU 104	Orientation: Education Profession/Program <i>EDU 104 is a prerequisite course for all other EDU and EDS courses except EDU 300 and EDS 360.</i>	1
EDU 300	Human Growth and Development	3
EDU 304	Reading and Writing Across the Curriculum: Middle Grades	3
EDU 305	Introduction to Education	2
EDU 309	Admission Field Experience Middle Grades	2
EDU 313	Instructional Technology	2
EDU 318	Classroom Climate Management: Middle School	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 Field Experience I	2
EDU 394	Middle Grades Field Experience II	2
EDU 495	Clinical Experience Middle Grades	12
EDS 323	Instructional Planning for Inclusive Middle	3

Level Classrooms		
EDS 360	Students with Exceptionalities in School	3
Core Credits in Teacher Education		46
Core Courses in Other Disciplines		
PSY 100	Introduction to Psychology**	3
CMST 101	Public Speaking**	3
Core Credits in Other Disciplines		6
TOTAL CORE CREDITS		52
<i>*Two methods courses are to be completed, one in Professional Semester I and the other in Professional Semester II. Students who plan to complete Special Education as an area will dual major and only be required to take one method course.</i>		
<i>**These courses fulfill general education requirements in Individual and Society and Oral Communication.</i>		

Content area tracks: Students select two content area tracks from the following: English and communication, social studies, mathematics, science, and special education. A minimum of 12 credit hours of content coursework must be completed before enrolling in the corresponding methods course.

English/Communications Track		Credits
ENG 291	Advanced College Writing	3
ENG 208	Survey of American Literature I -- OR --	3
ENG 209	Survey of American Literature II	
Select two courses from the following:		
ENG 202	Survey of British Literature I	
ENG 203	Survey of British Literature II	
ENG 206	Western World Literature I	
ENG 207	Western World Literature II	
ENG 215	Greek and Roman Mythology	6
ENG 217	African American Literature to 1940	
ENG 218	African American Literature 1940-Present	
ENG 306	Multicultural American literature Any course in non-Western Literature	
ENG 530	Readings in the English Language	3
Select one course from the following:		
ENG 231	Introduction to Creative Writing	
ENG 331	Persuasive Writing	
ENG 332	Fiction Writing	
ENG 334	Poetry Writing	3
ENG 340	Business Writing	
ENG 347	Technical Writing	
ENG 348	Professional Editing in the Workplace	
ENG 349	Web Writing for the Professions	
JOU 220	News Writing -- OR --	3
CMST 310	Argumentation	
ENG 371	Traditional Grammar	3
TOTAL TRACK CREDITS		24
Total Core Credits		52
TOTAL CREDITS		76

Social Studies Track		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	Introduction to Cultural Anthropology -- OR --	
SOC 100	Introduction to Sociology	3
TOTAL TRACK CREDITS		24
Total Core Credits		52
TOTAL CREDITS		76

Mathematics Track		Credits
MAT 110	Introductory Probability	3
MAT 112	Applied Calculus	3
MAT 117	Algebra for Middle Grades Teachers	3
MAT 140	Mathematics for Elementary and Middle Grades Teachers I	3
MAT 240	Geometry for Middle School Teachers	3
MAT 303	Mathematics and Technology for Middle Grades Teachers	3
STA 204	Statistics for Middle Grades Teachers	3
Select one course from the following:		
MAT 109	Algebra for College Students	
MAT 114	Finite Mathematics	
MAT 119	Precalculus Mathematics	
MAT 128	Calculus A	3
MAT 129	Calculus I	
MAT 185	Introductory Discrete Mathematics	
MAT 227	Calculus B	
TOTAL TRACK CREDITS		24
Total Core Credits		52
TOTAL CREDITS		76

Science Track		Credits
All courses except electives must include a laboratory component.		
BIO 120/120L	Understanding the Living World with Laboratory	4
CHE 105	Discovering Chemistry with Laboratory -- OR --	4 or 8
CHE 112/112L and CHE 115/115L	Chemistry and Society with Laboratory Physiological Chemistry with Laboratory	
PHY 110	Introduction to Physics with Laboratory	4
AST 110	Solar System 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	
BIO 151/151L	Introduction to Biology II with Laboratory	
BIO 208/208L	Human Anatomy and Physiology I with Laboratory	
BIO 123	Human Ecology	
BIO 121/121L	Diseases and the Systems They Affect with Laboratory	
<i>Integrated Sciences:</i>		
SCI 110	Integrative Natural Science	3-5
<i>Physical Sciences:</i>		
PHY 211	General Physics with Laboratory I	
PHY 213	General Physics with Laboratory II	
CHE 396	Practicum: Chemistry	

Earth and Space Science:

GLY 120/120L	This Dangerous Earth with Laboratory
GLY 220	History of the Earth
AST 115	Stars, Galaxies, and Cosmology with Laboratory

TOTAL TRACK CREDITS	23-29
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Total Core Credits	52
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TOTAL CREDITS	75-81
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*Science electives: If credit hour total for track is fewer than 24 hours, select additional elective hours from the list above.

Middle Grades Education with Special Education: Those pursuing a middle grades education major may also choose to concurrently complete a second major in special education. For courses leading to certification in special education, refer to the bachelor of arts with a major in special education program description.

Bachelor of Arts with a major in Special Education (P-12)

Students who want to become special education teachers must also major in either elementary, middle, or secondary (high school) teaching. Those choosing to major in special education will work with students who have identified learning disabilities, behavior disorders, mild intellectual disabilities, and/or physical and health disabilities. The special education teacher may work alongside a general education teacher providing support, accommodations, and modifications to students with disabilities in the general education classroom; may provide more individualized instruction to students with disabilities in a resource room; or may teach students with disabilities in a self-contained special education classroom. When finished, students may apply for certification to teach individuals with mild disabilities from kindergarten through 12th grade. Students must maintain an overall GPA of 2.75 throughout the program. Additionally, students will need to work closely with their assigned advisor to ensure that requirements for both general education teaching certification (elementary, middle, or secondary), as well as the requirements for special education teaching certification, are met.

Degree Requirements: B.A. – Special Education

Core Courses in Special Education		Credits
EDS 364	Characteristics of Learning Disabilities	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 (every fall semester; spring semester based upon need)		
EDS 362	Applied Behavior Analysis for Students with Disabilities	3
EDS 464	Assessment 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 course from the following:		
EDU 492	Clinical Experience Elementary with Secondary Education	
EDU 493	Clinical Experience Middle Grades	12
EDU 497	Clinical Experience Secondary with Special Education	
Credits for Student Teaching		12
TOTAL CORE CREDITS		38

Middle Grades Education with Special Education Track		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 -- OR --	3
MUS 260	Music Fundamentals and Skills for Classroom Teachers	
TOTAL TRACK CREDITS		9
Total Core Credits		38
TOTAL CREDITS		47

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

Secondary Education (8-12) Certification

Successful completion of the secondary education program leads to a major and bachelor's degree from the selected content area department and is the first step toward attaining certification to teach in one's chosen field in a secondary school program (8-12) in Kentucky. Students wishing to enroll in the secondary education program must follow the admission guidelines outlined by the College of Education and Human Services. It is suggested that freshmen or other interested students declare a pre-education major in secondary education. Doing so will enable the student to be assigned to a teacher education advisor. The advisor will be familiar with the current curriculum and admission requirements as well as any impending changes that may occur prior to the student's admission semester. Upon successful completion of this program, the graduate will qualify for an institutional recommendation for a Kentucky Provisional Certificate for teaching in the secondary grades (8-12) or in all grades (P-12) depending upon the selected teaching field.

Certification Requirements: (8-12) Secondary Education

Core Courses in Teacher Education		Credits
EDU 104	Orientation: Education Profession/Program <i>EDU 104 is a prerequisite course for all other EDU and EDS courses except EDU 300 and EDS 360.</i>	1
EDU 300	Human Growth and Development	3
EDU 305	Introduction to Education	2
EDU 311	Admission Field Experience Secondary	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
Select the methods courses for chosen teaching field		3-6
EDU 393	Secondary Field Experience I	2

EDU 396	Secondary Field Experience II	2
EDU 496	Clinical Experience Secondary	12
EDS 324	Instructional Planning for Inclusive Secondary Classrooms	3
EDS 360	Students with Exceptionalities in School	3
Core Credits in Education		40-43
Core Courses in Other Disciplines		
PSY 100	Introduction to Psychology*	3
CMST 101	Public Speaking*	3
*These courses fulfill general education requirements in Individual and Society and Oral Communication.		
Core Credits in Other Disciplines		6
TOTAL CORE CREDITS		46-49

Selected Teaching Field	Credits
Students should refer to the content area department for specific content course requirements in the selected teaching field.	
Art (P-12)	
Biology (8-12)	
Chemistry (8-12)	
Earth/Space Science (8-12)	
English (8-12)	
Health Education (P-12) – must be paired with another certification area	
Mathematics (8-12)	
Music (P-12)	
Physical Education (P-12)	
Physics (8-12)	
Social Studies (8-12)	
World Languages (P-12): French, Spanish, German	
TOTAL CONTENT CREDITS	Varies

Secondary Education with Special Education: Those pursuing secondary education certification may also choose to concurrently complete a second major in special education. For courses leading to certification in special education, refer to the bachelor of arts with a major in special education program description.

Teacher Education Certification Programs

Middle Grades Extension Program

The middle grades extension program is intended for elementary or secondary pre-service and in-service teachers who want to extend their certification to include the middle grades (5-9). Core courses in teacher education are offered each fall and spring semester; 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

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 School	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
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.		
Credits in Other Disciplines		Varies
TOTAL CORE CREDITS		Varies

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 School	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
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.		
Credits in Other Disciplines		Varies
TOTAL 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

Other Key Personnel:

Assistant Dean: Sallie Parker Lotz

Business Officer: Tracy Brate

The College of Health Professions welcomes all students interested in a health career. The college is the newest college on campus and prides itself on its strong commitment to students and to providing outstanding preparation for health careers in a variety of fields. Students are given opportunities to learn in and out of the classroom through online learning and high-fidelity simulation labs and in a wide array of clinical practice sites from the Greater Cincinnati/northern Kentucky region where they are able to get hands-on experience. Students are provided with learning experiences that lead them to be critical thinkers and compassionate clinicians that are in high demand in the workforce. In addition, students work closely with faculty on projects that benefit the larger community. Feel free to contact the college for more information or a tour of the facilities.

College Advising Center

Location: Albright Health Center 303

Telephone: 859-572-5895

Fax: 859-572-6098

Email Address: healthprofessions@nku.edu

Key Personnel:

Assistant Dean and Director: Sallie Parker Lotz

Academic Advisor: Eric Anderson

Academic Advisor: Sarah Dill

Academic Advisor: 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 Accreditation Commission for Education in Nursing, Inc.

The radiologic technology program is accredited by the Joint Review Committee on Education in Radiologic Technology.

The respiratory care program is accredited by the Commission on Accreditation for Respiratory Care.

College of Health Professions Policies

Student criminal background check: Healthcare agencies are charged with providing care and protecting the safety of vulnerable populations including children and the aged. Agencies used for clinical placement require students to undergo criminal background checks and may deny clinical access to those convicted of felonies and certain misdemeanors. Conviction of these offenses may result in a student's denial of admission to, or dismissal from, the College of Health Professions. Applicants are required to submit to criminal background checks as identified by the College of Health Professions as part of the application process. The cost of this and any subsequent screening will be borne by the student. The student is responsible for notifying the College of Health Professions of any change in the status of this record. Note that successful completion of a criminal background check does not ensure eligibility for certification, licensure, or future employment.

Centers

Northern Kentucky Nursing Research Collaborative

Location: Albright Health Center 296c

Telephone: 859-572-1939

Email Address: nknrc@nku.edu

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

Director: Denise Robinson

The purpose of the Northern Kentucky Nursing Research Collaborative is to positively impact the health of the people of Kentucky through the implementation of community-driven interventions, interdisciplinary research methods, and the application of best practices. NKU nursing faculty and students, along with registered nurses from partnering community agencies, have access to the resources and services offered by the NKNRC. Structured workshops, seminars, and professional meetings focus on the development of the novice nurse researcher while encouraging and facilitating the application of nursing research within our own community.

Nurse Advocacy Center for the Underserved

Location: Albright Health Center 327

Telephone: 859-572-5242

Email Address: fosterc2@nku.edu

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

Director: Cindy L. Foster

The Nurse Advocacy Center for the Underserved provides outreach healthcare services to the underserved in northern Kentucky, and it advocates for social conditions that promote health. Caregivers are volunteer registered nurses. They provide healthcare at sites where the underserved live (shelters and apartments) and where they congregate (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 the 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, Master of Science in Health Science: Thomas Baxter

Program Director, Bachelor of Science in Health Science: Andrea Cornuelle

Program Director, Radiologic Science: Diane Gronefeld

Program Director, Respiratory Care: Debra Kasel

Department Coordinator: Karen Peacock

Full-Time Faculty: Shannon Alexander, Thomas Baxter, Andrea Cornuelle, Diane Gronefeld, Debra Kasel, Trina Koscielicki, Robert Langenderfer, Karen Leek, Debbie Patten, Valerie V. Rowland

Undergraduate Programs:

Majors:

Bachelor of Science

Radiologic Science (accredited by Joint Review Committee on Education in Radiologic Technology)

Respiratory Care (accredited by Commission on Accreditation for Respiratory Care)

Health Science

Radiologic Science

The Bachelor of Science in Radiologic Science at NKU provides students the opportunity to enter into a rapidly advancing field full of cutting-edge scientific progress using state-of-the-art equipment in a growing profession that offers a fulfilling and promising future. The radiologic science program is fully accredited by the Joint Review Committee on Education in Radiologic Technology.

Radiologic technologists (or radiographers) are healthcare professionals who create medical images of the body to help healthcare providers diagnose and treat illness and injury. NKU prepares students in the diagnostic field of radiologic technology. This area of professional practice involves the use of radiation to provide images for examination of the tissues, organs, bones, and vessels of the body.

Crucial to successful interpretation, the radiologic technologist is responsible for accurately and properly: preparing the patient for radiologic examinations; positioning the patient for radiologic examination; selecting the amount of X-ray exposure; processing the images; evaluating the image quality; and assisting the radiologist during fluoroscopic procedures.

Education for the radiography student is an integrated plan of classroom, laboratory, and clinical education. In addition to regular classroom coursework, students spend an average of 20 hours per week practicing their skills at an area clinical site.

Affiliated hospitals in the northern Kentucky/Greater Cincinnati area include: St. Elizabeth Healthcare – Covington, Edgewood, Fort Thomas, Florence, and Grant County (Ky.); Dearborn County Hospital (Lawrenceburg, Ind.); The Jewish Hospital – Kenwood (Cincinnati); Mercy Hospital Anderson (Cincinnati); and Mercy Hospital Clermont (Batavia, Ohio).

Special admission requirements: Due to the limited number of clinical placements and the competitive and appealing nature of the pro-

gram, the radiologic science program has a selective admission process. **The annual application deadline is February 15 for the class that will begin in July of that year.**

The radiologic technology admission committee determines academic eligibility and ranks the applicants. Approximately 28 students are accepted each year. The program does NOT maintain a waiting list that carries over from one year to the next; however, a small number of other candidates meeting the admission criteria may be placed on a waiting list in case vacancies occur prior to the beginning of "RAD 200: Introduction to Radiography."

To be considered for admission into the radiologic science program, students must meet the following requirements:

1. Satisfactory completion of the following courses with a grade of C or better in each course:
 - a. BIO 208 and BIO 208L Human Anatomy and Physiology I with Laboratory
 - b. PHY 110 Introduction to Physics with Laboratory or CHE 115 with Laboratory.
 - c. ENG 101 College Writing
 - d. Mathematics general education course (STA 205 or STA 212 required for program completion).
2. A minimum GPA of 2.5 in all college work attempted, based on a 4.00 scale.
3. Completion of an application worksheet based on research into the profession. Suggested websites are listed on the program's website and in the program brochure.

Admission into the radiologic science program is completely objective and is based on academic screening. Applicants are awarded points based on the following:

1. Overall GPA based on the applicant's most recent 45 credit hours.
2. Grades earned in prerequisite and general studies courses required for the program.
3. Total number of credit hours earned.
4. Related healthcare experience (paid or volunteer).

Students attending NKU will be awarded bonus points in the application process.

Conditional acceptance into the program can be given to students enrolled in any of the prerequisite courses by the priority application date of **February 15**. Successful completion of these courses with a grade of C or better must be documented at the end of the term for final program admission.

Student criminal background check: Healthcare agencies are charged with providing care and protecting the safety of vulnerable populations including children and the aged. Agencies used for clinical placement require students to undergo criminal background checks and may deny clinical access to those convicted of felonies and certain misdemeanors. Conviction of these offenses may result in a student's denial of admission to, or dismissal from, the College of Health Professions. Applicants are required to submit to criminal background checks as identified by the College of Health Professions as part of the application process. The cost of this and any subsequent screening will be borne by the student. The student is responsible for notifying the College of Health Professions of any change in the status of this record. Note that successful completion of a criminal background check does not ensure eligibility for certification, licensure, or future employment.

You should also know: The radiologic science program is a full-time, daytime program. During the course of the program, students will complete a limited number of evening shift clinical assignments.

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 science program must be able to meet the following technical standards. These standards specify the skills necessary for successful completion of the program and subsequent employment as a radiologic technologist (radiographer).

Sufficient visual acuity to:

- Assess skin tone changes detectable in cyanotic or flushed skin
- Detect color shades/tones such as shades of gray seen on radiographs
- Evaluate radiographs for quality
- Read printed words in textbooks and on medical equipment

Sufficient hearing to:

- Communicate with patients and other members of the healthcare team
- Monitor patients via audio monitors
- Hear background sounds during equipment operations
- Respond to the audible sounds of the equipment

Sufficient gross and fine motor coordination to:

- Manipulate equipment and accessories
- Lift a minimum of 30 pounds
- Stoop, bend, or promptly assist patients who become unstable

Satisfactory physical strength and endurance to:

- Move immobile patients to or from a stretcher or wheelchair to the X-ray table
- Work with arms extended overhead (approximately 80" from the floor)
- Carry 30 pounds while walking
- Stand in place for long periods of time

Satisfactory verbal, reading, and writing skills to:

- Explain radiologic procedures
- Direct patients during radiologic procedures
- Communicate in English for effective and prompt interaction with patients, fellow students, faculty, and hospital personnel

Satisfactory intellectual and emotional functions to:

- Ensure patient safety
- Exercise independent judgment and discretion in the performance of assigned responsibilities
- Measure, calculate, reason, and evaluate as required for direct patient care
- Handle stressful situations related to procedural standards and patient care situations

Must be physically free of illegal drugs and alcohol.

Students with a disability should declare the disability and provide verification to the Office of Disability Programs and Services so that reasonable accommodations can be made.

Advanced standing is available for students who (1) have graduated from an accredited postsecondary vocational or hospital-based program in radiologic technology and (2) have passed the American Registry of Radiologic Technologists national examination. These students will be awarded up to 51 hours toward completion of NKU professional course requirements in radiologic science. Students admitted into the baccalaureate degree program under the advanced standing policy will be held accountable for meeting all prevailing university and program requirements for graduation.

Degree Requirements: B.S. – Radiologic Science

Selective Admission Courses		Credits
BIO 208/ and BIO 208L	Human Anatomy and Physiology I with Laboratory	4
PHY 110	Introduction to Physics with Laboratory --OR--	
CHE 115	Physiological Chemistry with Laboratory	4
ENG 101	College Writing	3
STA 205	Introduction to Statistical Methods --OR--	
STA 212	Statistics for Business Applications	3
Credits for Selective Admission		14
Courses in Radiologic Science		
RAD 200	Introduction to Radiography	6
RAD 208	Radiographic Procedures I	3
RAD 208L	Radiographic Positioning Laboratory	1
RAD 209	Radiographic Procedures II	3
RAD 209L	Radiographic Positioning Laboratory II	1
RAD 214	Analysis of Radiographic Quality	3
RAD 214L	Analysis Radiographic Quality Laboratory	1
RAD 216	Physical Principles of Radiographic Equipment	3
RAD 286	Radiographic Practicum I	3
RAD 296	Radiographic Practicum II	3
RAD 303	Radiographic Procedures III	2
RAD 309	Radiographic Procedures IV	2
RAD 310	Sectional Anatomy	3
RAD 334	Specialized Medical Imaging	3
RAD 340	Radiation Biology and Protection	3
RAD 350	Clinical Pathology for Radiographers	3
RAD 376	Radiographic Practicum III	2
RAD 386	Radiographic Practicum IV	3
RAD 396	Radiographic Practicum V	3
RAD 470	Principles of Computed Tomography	3
RAD 480	Radiography Seminar	3
RAD 486	Radiographic Practicum VI	3
RAD 496	Practicum: Advanced Imaging	3
Credits in Radiologic Science		62
Courses in Other Disciplines		
BIO 209/ BIO 209L	Human Anatomy and Physiology II and Human Anatomy and Physiology II Laboratory	4
BIO 272	Medical and Biological Terminology	3
HIN 355	Introduction to Health Informatics	3
HSC 410	Healthcare Management	3
HSC 421	Healthcare Research	3
HSC 460	Concepts of Quality Patient Care	3
Gen Ed	Written Communication II	3
Gen Ed	Cultural Pluralism	3
Gen Ed	Individual and Society	6
Gen Ed	Culture and Creativity	6
Gen Ed	Global Viewpoints	3
Select one course from the following:		
HSC 440	Issues in Chronic Disease Management	
HSC 413	Aging in Today's Society	
HSC 450	HSC Advanced Imaging Technology	3
HSC 494	Topics in Healthcare	
PSY 302	The Human Side of Work	
LDR 315	Leading People in Organizations	
HIN 356	Health Information Management	
Credits in Other Disciplines		16
TOTAL CREDITS		122

Respiratory Care

Respiratory care is the allied health profession devoted to the diagnosis, treatment, and rehabilitation of patients with diseases of the respiratory system. Respiratory therapists must have a thorough understanding of normal pulmonary anatomy and physiology and of the pathology and treatment of various breathing-related disorders. They work in adult and pediatric hospitals, in some nursing homes, and for a growing number of home-care companies. With the authorization of a healthcare provider, they give aerosolized medications and various special breathing treatments to patients with acute or chronic pulmonary disease. Respiratory therapists are life-support specialists, setting up artificial ventilators for patients of all ages who cannot breathe for themselves. When a cardiac arrest occurs in the hospital, respiratory therapists provide cardiopulmonary resuscitation and manual ventilation. With sophisticated equipment, they measure the effectiveness of breathing and levels of oxygen and carbon dioxide in the blood. Following recognized protocols or authorized orders, they institute therapies to reduce the work of breathing and to improve ventilation and oxygenation.

The professional program is six semesters long. Besides didactic, lab, and clinical training in basic respiratory care, the first professional year includes courses in microbiology and anatomy/physiology. The second professional year focuses on more advanced or specialized modalities of respiratory care. The third professional year includes courses necessary to develop an informed, broadly educated healthcare professional. To provide experience with patients, the program has clinical affiliations with hospitals in the northern Kentucky and Greater Cincinnati area. Successful completion of the program leads to the Associate of Applied Science and to eligibility for the C.R.T. and R.R.T. credentialing examinations given by the National Board for Respiratory Care. After passing the C.R.T. exam, the graduate is eligible for a Kentucky Mandatory Certificate, an Ohio 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:

1. Complete a program application form.
2. Possess a GPA of 2.30 or higher on previous college coursework, assuming a 4.0 scale.
3. Completion of CHE 115/115L (with a C- or higher).
4. Completion of general education courses in the "written I" and "oral" parts of the communication category.
5. Completion of BIO 208/208L with a grade of C or higher.
6. Completion of STA 205 with a grade of C or higher.
7. Completion of HSC 101 with a grade of C or higher.
8. Successful completion of a criminal background check prior to final acceptance into the program.

Applications completed prior to **February 15** are given priority. Conditional acceptance into the program can be given to students enrolled in any prerequisite course by the priority application date of **February 15**. Successful completion of these courses must be documented at the end of the term for final program admission. Students will be notified of their admission status in writing. Students who want to major in respiratory care but do not yet meet the above criteria should declare pre-respiratory care (XRSP) as their major, apply for acceptance into the program, and follow the advice of their respiratory care faculty advisor. Many students take prerequisites, general education, and science requirements before starting the professional RSP course sequence. Students must also fulfill the immunization requirements listed on the respiratory care program immunization form and described in the respiratory care program student handbook before they are given hospital clinical assignments, a required part of the curriculum.

Student criminal background check: Healthcare agencies are charged with providing care and protecting the safety of vulnerable populations including children and the aged. Agencies used for clinical placement require students to undergo criminal background checks and may deny clinical access to those convicted of felonies and certain misdemeanors. Conviction of these offenses may result in a student's denial of admission to, or dismissal from, the College of Health Professions. Applicants are required to submit to criminal background checks as identified by the College of Health Professions as part of the application process. The cost of this and any subsequent screening will be borne by the student. The student is responsible for notifying the College of Health Professions of any change in the status of this record after starting the program. Note that successful completion of a criminal background check does not ensure eligibility for certification, licensure, or future employment.

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 oral 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 and colleagues 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 cardiopulmonary 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).
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*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 for the effective application of respiratory therapy. For this reason, the required science courses must be taken before or during the semester in which they are listed in the program curriculum. Science courses older than seven years or with grades lower than C- will not be recognized as fulfilling program requirements.

Assessment of Major: In the fifth term, as part of "RSP 480: Respiratory Care Seminar" students as a group must take the entry-level and written registry self-assessment examinations from the National Board for Respiratory Care. The examinations (1) give students the opportunity to demonstrate a synthesis of knowledge about respiratory care, (2) help 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.

You Should Also Know: The respiratory care program is a full-time, daytime program. The schedule is challenging with classes and clinical activities each day plus out-of-class/clinical assignments. The time frame is demanding, and any work outside of the program needs to be both flexible and limited in hours per week in order for the student to be successful in the respiratory care program.

Degree Requirements: B.S. – Respiratory Care

Selective Admission Courses		Credits
CHE 115/ CHE 115L	Physiological Chemistry with Laboratory	4
Gen Ed	Communication; Written I; ENG 101 College Writing	3
HSC 101	Introduction to Health Professions	3
STA 205	Introduction to Statistical Methods --OR--	
STA 212	Statistics for Business Applications	3
Gen Ed	Communication; Oral	3
BIO 208 and BIO 208L	Human Anatomy and Physiology I with Laboratory	4
Credits for Selective Admission		20
Courses in Respiratory Care		
RSP 201	Fundamentals of Respiratory Care	3
RSP 201L	Patient Assessment Laboratory	1
RSP 286	Clinical Practicum I	3
RSP 220	Introduction to Respiratory Critical Care	4
RSP 296	Clinical Practicum II	3
RSP 310	Advanced Critical Care	5
RSP 235	Respiratory Physiology and Physics	3
RSP 386	Clinical Practicum III	3
RSP 362	Prenatal-Pediatric Respiratory Care	3
RSP 331	Cardiopulmonary Diagnostics	3
RSP 350	Cardiopulmonary Pathophysiology	3
RSP 480	Respiratory Care Seminar	3
RSP 396	Clinical Practicum IV	3

RSP 486	Clinical Practicum V	3
RSP 441	Disease Management	3
RSP 445	Health Assessment and Promotion	3
RSP 496	Clinical Practicum VI	3
RSP 430	Advanced Pathophysiology	3
Credits in Respiratory Care		55

Courses in Other Disciplines		
HSC 105	Pharmacology	2
HSC 291W	Writing in the Health Science	3
HIN 355	Introduction to Health Informatics	3
BIO 209/209L	Human Anatomy and Physiology with Laboratory	4
BIO 202/202L	Microbiology for Health Professionals	4
HSC 421	Healthcare Research	3
HSC 410	Healthcare Management	3
HSC 430	Health Professional as Educator	3
HSC 460	Concepts of Quality Patient Care	3
Credits in Other Disciplines		28
TOTAL CREDITS		83

Health Science Major

Bachelor of Science with a major in Health Science

The Bachelor of Science in health science is an interdisciplinary, degree-completion program that provides an opportunity for healthcare professionals to enhance their knowledge and skills, improving the possibility for career mobility. The program prepares graduates for a variety of positions in health-related organizations including, for example, administration, management, advanced clinical practice, clinical educator, and clinical applications.

This degree program is offered in a totally online format and offers both a clinical and non-clinical track. The clinical track 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. The non-clinical track is designed for those individuals who do not have clinical skills or credentials but wish to pursue a career in some aspect of healthcare that does not involve direct patient care.

Evaluation of transfer credit hours and program planning is individualized; each student is assisted by a program advisor.

Special admission requirements: The program accepts students throughout the year to begin the program in fall, spring, or summer, depending on when the program admission process is completed. The first step in the process is admission to NKU. Students must also submit a program application, have an associate degree or 60 credit hours completed and meet the academic requirements for the track of choice to be eligible for program admission.

Academic requirements – Clinical Track: To be eligible for admission to the clinical track, students must meet the following criteria:

1. Possess an earned associate degree in a clinically based healthcare discipline.*
2. Be currently registered/certified in their discipline.
3. Possess a cumulative GPA of 2.00 or higher on a 4.00 scale.
4. Demonstrate knowledge and understanding of anatomy and physiology as well as other sciences related to healthcare and the applicant's discipline.

*Students enrolled in the second year of the RAD or RSP program at NKU may be conditionally accepted; documentation of certification must be submitted prior to completion of the B.S.

Academic requirements – Non-Clinical Track: To be eligible for admission to the non-clinical track, students must meet the following criteria:

1. Apply and declare the health science major, online program and non-clinical track.
2. Be fully admitted to NKU.
3. Submit a Health Science Non-Clinical Program application in pdf format to the health science program.
4. Submit the following documents to the Office of Undergraduate Admissions:
 - a. Official high school transcript with ACT or SAT test scores;
 - b. Official transcripts of all postsecondary coursework completed. All credit hours must be from regionally-accredited institutions.

Student criminal background check: Healthcare agencies are charged with providing care and protecting the safety of vulnerable populations including children and the aged. Agencies used for clinical placement require students to undergo criminal background checks and may deny clinical access to those convicted of felonies and certain misdemeanors. Conviction of these offenses may result in a student's denial of admission to, or dismissal from, the College of Health Professions. Students who wish to complete a clinical practicum are required to submit to criminal background checks as identified by the College of Health Professions prior to completing the practicum. The cost of this and any subsequent screening will be borne by the student. The student is responsible for notifying the College of Health Professions of any change in the status of this record. Note that successful completion of a criminal background check does not ensure eligibility for certification, licensure, or future employment.

Special graduation requirements:

- A minimum grade of C or better for successful completion of major requirements.
- The clinical track requires verification of registry/certification with appropriate professional organization; detailed information will be included in the program acceptance letter for those who are conditionally admitted to the program.

You should also know: The Bachelor of Science in health science is delivered completely in the online format. The NKU application for admission and the registration process are handled online. The program application can be downloaded from the health science website (<http://healthprofessions.nku.edu/departments/alliedhealth/programs/healthscience.html>) and faxed to 859-572-1314, or emailed to the program (healthscience@nku.edu). The course registration process and new student orientation are also completed online. The format and timeline are flexible in consideration of the working practitioner. See the online program curriculum schedule (<http://nkuonline.nku.edu/undergraduate/programs/bshealthscience.html>).

Courses currently available online are included on the elective list and students who wish to enroll in alternate courses on campus may do so with director approval.

Advanced standing: Students may earn advanced standing credit for the following:

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 six 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. 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. Advanced standing is also available for radiographers who have graduated from an accredited radiography program, but who may not have course work that transfers to NKU. Students must have passed the American Registry of Radiologic Technologists national examination, have maintained their certification and can provide documentation of current certification. These students may be awarded up to 51 hours of radiography professional coursework, dependent upon year of initial certification; award of credit will be evaluated on an individual basis. This advanced standing policy is limited to students completing the health science program. Credit hours earned under this policy may not be used to satisfy the residency requirements for graduation. Students who earn these credit hours must meet all prevailing university and program requirements for graduation.

Except for RAD and RSP courses, no more than two non-HSC courses can be taken to fulfill major requirements.

Degree Requirements: B.S. in Health Science – Clinical Track

Courses		Credits
HSC 410	Healthcare Management	3
HSC 413	Aging in Today's Society	3
HSC 421	Healthcare Research	3
HSC 460	Concepts of Quality Patient Care	3
HSC 480	Senior Seminar (taken last semester in the program)	3
INF 355	Introduction to Health Informatics	3
LDR 308	Leadership Development	3
STA 205	Introduction to Statistical Methods	3
Select three courses from the following:		
HSC 440	Issues in Chronic Disease Management	
HSC 494	Topics in Healthcare	
HSC 580	Applied Healthcare Management	
RAD 310	Sectional Anatomy	
RAD 450	Advanced Imaging Pathology	
RAD 470	Principles of Computed Tomography	
RAD 496	Practicum: Advanced Imaging	
RSP 441	Disease Management	9
RSP 442	Disease Management II	
HSR 314	Death, Dying and Grief	
LDR 382	Organizational Theory and Change*	
LDR 381	Organizational Ethics and Decision Making*	
LDR 385	Teamwork in Organizations*	
PSY 302	The Human Side of Work*	
PSY 333	Abnormal Psychology*	
PSY 344	Industrial/Organizational Psychology*	
CMST 303	Organizational Communication	
CMST 355	Culture and Communication	
Total Program Credits		33
TOTAL CREDITS		33
*No more than two PSY or one LDR course may be used as electives for the major.		

B.S. in Health Science – Non-clinical track

The B.S. in health science is a degree-completion program for those who have an associate degree in a clinically-based healthcare discipline and appropriate professional credentials. Students who do not meet these requirements have the option of completing a basic track and, with additional courses, a focus. The primary differences between the B.S. and B.S. non-clinical tracks are the replacement of "HSC 460: Concepts of

Quality Patient Care" and "HSC 413: Aging in Today's Society" with HIN 356 and "BIS 330: IT Project Management" within the core requirements and the defined electives. Applicants to the non-clinical track do not need the professional credentials.

Non-clinical track – Basic		Credits
HSC 410	Healthcare Management	3
BIS 330	IT Project Management	3
HSC 421	Healthcare Research	3
	Introduction to Health Informatics	3
	Health Information Management	3
HSC 480	Global Perspectives of Healthcare	3
LDR 308	Leadership in Organizations	3
STA 205	Introduction to Statistical Methods --OR-- Statistics for Business Applications	
STA 212		3
CMST 303	Organizational Communication	3
PSY 302	The Human Side of Work --OR--	
PSY 344	Industrial/Organizational Psychology	3
Select one course from the following:		
BIS 300	Management Information Systems --OR-- Business Process Analysis	
BIS 275		3
BIS 382	Principles of Information Security	3
INF 282	Introduction to Databases	3
CEP 300	Cooperative Education	1-3

Non-clinical track – Basic+Focus		Credits
HSC 410	Healthcare Management	3
BIS 330	IT Project Management	3
HSC 421	Healthcare Research	3
INF 282	Introduction to Databases	3
HSC 480	Global Perspectives of Healthcare	3
HIN 355	Introduction to Health Informatics	3
LDR 308	Leadership in Organizations	3
STA 205	Introduction to Statistical Methods --OR-- Statistics for Business Applications	
STA 212		3
CMST 303	Organizational Communication	3
PSY 302	The Human Side of Work --OR--	
PSY 344	Industrial/Organization Psychology	3
HIN 356	Health Information Management	3
Select two courses from the following:		
BIS 300	Management Information Systems	3
BIS 380	Quantitative Analysis with Excel	3
BIS 382	Principles of Information Security	3

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: Mary Kishman

Other Key Personnel:

B.S.N. Program Director: Gannon Tagher

A.B.S.N. Program Director: Kim Dinsey-Read

R.N. to B.S.N. Program Director: Ann Keller (see Department of Advanced Nursing Studies)

Advisors: Sallie Parker Lotz, Shane Talbott, Eric Anderson, Sarah Dill
Department Coordinator: Meg Cowherd

Academic Assistant: Jackie Marsala

Department Secretary: Kathryn Steffen

Full-Time Faculty: Kathy Bergman, Tara Dailey, Pamela Davis, Adele Dean, Kim Dinsey-Read, Annie Dollins, Deborah Engel, Gina Fielner, Pam Fletcher, Cindy Foster, Traci Freeman, Sandra Grinnell, Julie Hart, Teresa Huber, Ann Keller, Lisa Knapp, Caron Martin, Carrie A. McCoy, Kristen McCoy, Keshia Nelson, Louise Niemer, Shawn Nordheim, Catherine Pence, Kris Pfendt, Angela Riley, Erin Robinson, Lynn Smith, Patricia Sunderhaus, Cheryl Swayne, Gannon Tagher, Sandra Turkelson

Undergraduate Programs:

Majors:

Bachelor of Science in Nursing

- Accelerated B.S.N.
- R.N. to B.S.N.
- Traditional B.S.N.

All baccalaureate nursing programs are approved by the Kentucky Board of Nursing, Suite 300, 312 Whittington Parkway, Louisville, KY 40222-5172, 502-429-3300. All baccalaureate programs are accredited by the Accreditation Commission for Education in Nursing, 3343 Peachtree Rd. N.E., Suite 850, Atlanta, GA 30326.

Thinking about the discipline: Nurses are key members of the healthcare team. Nurses work in hospitals, community agencies, business and industry, and health promotion and prevention. Nurses also work as travel nurses, flight nurses, forensic nurses, legal consultants, and much more.

Nursing is a rigorous course of study and only the most dedicated students are successful. NKU's Bachelor of Science in nursing prepares traditional college students and second-degree students for entry-level practice in this exciting field. The R.N. to B.S.N. program provides career mobility for the registered nurse. Knowledge acquired in the nursing program can be applied directly to practice. Graduates of the program are prepared to function as providers of nursing care, managers of care, and as members of the discipline of nursing.

Graduates are awarded the degree of Bachelor of Science in nursing, and as pre-licensure graduates are eligible to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN) and to continue their nursing education at the master's and doctoral levels.

Special opportunities for our students: The A.B.S.N. and B.S.N. programs include planned clinical experiences in the community, local healthcare agencies in northern Kentucky and the Greater Cincinnati area, and NKU's state-of-the-art simulation laboratory.

Nursing students have opportunities to become members of the Student Nurses Association, College of Health Professions Student Ambassadors,

African American student support group, student advisory board, and American Assembly for Men in Nursing, as well as participate in service-learning opportunities with the Nurse Advocacy Center for the Underserved and other community agencies. Interested students also have an opportunity to study nursing abroad in Mexico and other countries in the summers.

Awards given in the department include: membership in Sigma Theta Tau Rho Theta Chapter (honor society for nursing) and leadership, academic, and caring spirit awards.

Special admission requirements for traditional and B.S.N. second-degree programs: Nursing is a **selective admission** program. All applicants must be accepted to NKU as degree-seeking students and must submit a separate application for the nursing program when eligible to apply.

All prerequisites and co-requisites must be completed with a *C* or higher; grades of *C-* are not accepted. All science courses taken as prerequisites for admission to the program must be fewer than eight years old as of the first day of the semester in which the program is started.

A certain level of English proficiency is necessary for academic success in nursing as well as for patient and client safety. For this reason, applicants whose native language is other than English must demonstrate an established level of English proficiency by taking the Internet-based TOEFL as part of the application process and have a minimum cumulative score of 90 with minimum individual scores of 26 in speaking, 22 in listening, 20 in writing, and 22 in reading. Only official scores will be accepted and the testing must be within two years of application to the program. "Official language" is defined as an individual's first acquired language and the language of educational instruction. For a complete list of NKU approved countries with English as the "official language," please contact the Office of International Students and Scholars at 859-572-6517. The test of English as a foreign language is offered by the Educational Testing Service and may be taken at various test centers throughout the world. Students must register for and take the Internet-based TOEFL. Only the iBT will be accepted for applicants to the undergraduate nursing programs. Students need to enter a code for Northern Kentucky University when they register for the TOEFL. The school code is # 1574. Students must take the test early enough to ensure that the results are reported to the university by required application deadlines.

Admission to nursing is provisional based on successful completion of prerequisites, GPA, passage of the criminal background check administered through NKU's police department and minimum score on the TOEFL, if required.

- Applicants without a bachelor's degree should see program requirements for the traditional B.S.N. program. Those with a bachelor's degree who want the accelerated track should see requirements for the B.S.N. second-degree program. Registered nurses with an associate degree or diploma should see program requirements for the R.N. to B.S.N.

You should also know: Nursing majors are not required to have a minor or focus.

The Kentucky Board of Nursing has regulations regarding previous felony and misdemeanor convictions that must be addressed prior to sitting for the licensure examination.

The department reserves the right to change the program of study as needed to fulfill state approval and national certification requirements,

including the Accreditation Commission for Education in Nursing and Kentucky Board of Nursing.

All B.S.N. and A.B.S.N. students are required to participate in the Evolve® Curriculum Support Program. This is a commercial program that provides additional resources for student learning. See B.S.N. and A.B.S.N. program descriptions for details.

Statement regarding when courses are offered in the Department of Nursing: Independent studies: "NRS 299: Independent Study**" and "NRS 499: Independent Study" will be offered, as needed, each semester. "NRS 300: Remediation Seminar" will be offered each semester, as needed, for students who score below 850 on their mid-curricular assessment. "NRS 400: Remediation**" will be offered each semester, as needed, for students who score below 900 on the HESI RN-Exit exam.

*This course can be taken voluntarily by students who achieve over 900 on the HESI RN-Exit exam on a space available basis.

Traditional Bachelor of Science in Nursing Program

This is a traditional four-year program designed for those who do not have a bachelor's degree and are not yet registered nurses. Others who might consider this track are those with a bachelor's degree who want to move at a slower pace than the accelerated B.S.N. and licensed practical nurses who want to become registered nurses. The B.S.N. curriculum is based on concepts and theories of nursing, liberal arts, and the sciences. The nursing process is incorporated throughout the curriculum. Carefully planned experiences, such as simulation and clinical experiences are an integral part of the program of study, beginning in the first semester and continuing throughout. Hospitals and healthcare agencies in northern Kentucky, Greater Cincinnati, and southern Indiana serve as clinical practice settings during day and evening hours. Many members of the faculty continue to practice in healthcare settings and participate in research and other scholarly endeavors.

Graduates of the B.S.N. program use critical thinking, communication, and technical skills to provide care to individuals and families. Knowledge is specific and factual and can be applied directly to practice.

Pre-major requirements: Incoming freshman students may declare pre-nursing as their major if they have a minimum ACT composite score of 20 or higher and no academic deficiencies. Transfer students with more than 24 credit hours must have a minimum GPA of 2.50. Transfer students with fewer than 24 earned credit hours must have a minimum GPA of 2.50, a minimum ACT composite score of 20 or higher and no academic deficiencies. Current NKU students seeking to change their major to pre-nursing must have a minimum GPA of 2.50 and must schedule an appointment with an academic advisor by calling 859-572-5895. Students majoring in pre-nursing will be helped by an academic advisor to develop an educational plan for nursing admission and progression. Students are allowed to maintain their pre-nursing status for only three semesters before applying to the B.S.N. program. If students do not meet the criteria for acceptance into the baccalaureate nursing program after three semesters, they will be encouraged to select another major to facilitate their timely graduation from NKU.

Pre-nursing students may enroll in courses that fulfill the prerequisite classes to apply to nursing and the support courses to progress into the nursing baccalaureate program, plus general education courses required for the bachelor's degree in nursing. They may not take nursing classes until admitted to begin the program.

Admission requirements: Students who apply by January 15 are applying to begin nursing courses the following fall semester. Students who apply by August 15 are applying to begin nursing courses the following spring semester.

To be considered for the selective admission to the B.S.N. program all applicants must:

1. Be admitted to NKU as a degree-seeking student with no academic deficiencies.
2. Submit a separate application to the nursing program. The application is available in the nursing office in Albright Health Center 303. Mail or fax the completed application to the Department of Nursing. Applications to the nursing program may also be submitted online (<http://healthprofessions.nku.edu/departments/nursing/undergrad/form.html>). Applications to the nursing program are in addition to the university application.
3. Have the following minimum grade requirements and eligibilities:
 - a. A minimum grade of *C* or higher in BIO 208/208L,
 - b. A minimum grade of *C* or higher in PSY 100,
 - c. Be eligible to take CHE 115/115L,
 - d. Be eligible to take STA 205 -- OR -- STA 212,
 - e. Earn grades in nursing support courses of *C* or higher. Support courses include PSY 100, PSY 321 -- OR -- EDU 300, STA 205 -- OR -- STA 212, INF 355, BIO 202/202L, BIO 126, BIO 208/208L, BIO 209/209L, CHE 115/115L -- OR -- CHE 120/120L and CHE 121/121L. Grades of *C-* are not accepted for prerequisites, co-requisites or nursing classes.
 - f. A minimum cumulative GPA of 3.00 on a 4.00-point scale or 3.00 on a 4.00 scale on all previous college work for the last 60 credit hours, whichever is higher. GPAs for admission to the B.S.N. program will be calculated using NKU and transfer coursework.
 - g. No more than one semester of science course failures in the required science courses for the program in the last four years (*C-*, *D*, and *F* are considered failures) prior to entry into the program. This requirement applies to BIO 120/120L, BIO 121/121L, BIO 126, BIO 202/202L, BIO 208/208L, BIO 209/209L, BIO 302/BIO 302L, CHE 102, CHE 115/CHE 115L, CHE 120/120L, CHE 121/121L or equivalent transfer courses.
 - h. Prerequisite science courses required for admission must be fewer than eight years old as of the first day of the semester in which the program begins.

Additionally:

1. The ACT is required for those transfer applicants with fewer than 24 credit hours from an accredited institution. See pre-major requirements for details.
2. Applicants whose native language is other than English must demonstrate an established level of English proficiency by taking the Internet-based TOEFL. See special admission requirements for details.
3. If a student is accepted into the nursing program, he or she must have the following coursework completed with a grade of *C* or higher before beginning nursing classes:
 - BIO 209/209L
 - PSY 321 -- OR -- EDU 300
 - BIO 126
 - CHE 115/115L -- OR -- CHE 120/120L and CHE 121/121L
 - Either STA 205 -- OR -- STA 212
4. A personal interview may be requested by the nursing admission/readmission committee.
5. All accepted students must pass a criminal background check before starting nursing classes.

Licensed practical nurses are eligible to apply to the B.S.N. program if they have graduated from a practical nursing program and passed the NCLEX-PN within the last four years or are actively employed as an LPN. If LPNs are accepted into the B.S.N. program, they must take an independent-study class with a nursing faculty member during their first

semester in the nursing program. Upon successful completion of NRS 299, the following courses will be waived for LPNs: NRS 210L, NRS 215 and NRS 215P. The Evolve® Curriculum Support fee (currently \$120 per semester) will be assessed for LPNs for every semester. LPNs are encouraged to make an appointment with an academic advisor prior to applying to the B.S.N. program.

Admitted students must:

- Submit proof of “CPR for Health Providers” certification in effect for the upcoming academic year.
- Submit immunization records and completed health forms (all records must be submitted together) before the posted deadline.
- Purchase professional liability insurance, which is paid concurrently with their tuition.
- Submit proof of health insurance coverage or sign a health insurance waiver.
- Provide own transportation to clinical agencies.
- Purchase appropriate uniforms prior to the first day of clinical.

NKU College of Health Professions policies:

Student criminal background check: Healthcare agencies are charged with providing care and protecting the safety of vulnerable populations including children and the aged. Agencies used for clinical placement require students to undergo criminal background checks and may deny clinical access to those convicted of felonies and certain misdemeanors. Conviction of these offenses may result in a student’s denial of admission to, or dismissal from, the Department of Nursing and the College of Health Professions. Applicants are required to submit to criminal background checks as identified by the College of Health Professions as part of the application process. The cost of this and any subsequent screening will be borne by the student. The student is responsible for notifying the Department of Nursing and the College of Health Professions of any change in the status of this record after starting the program. Note that successful completion of a criminal background check does not ensure eligibility for certification, licensure, or future employment.

Transfer students: Students previously enrolled in another ACEN or CCNE-accredited program in nursing may be eligible to transfer into the nursing program at NKU. In addition to all admission requirements, the following apply to all transfer students:

1. Transfer students are considered on a space-available basis. Eligibility is determined by the nursing Admissions, Progression, Graduation Committee. Students with more than one nursing semester failure are not eligible to apply.
2. The following must be submitted: a letter from the director of the previous program attended explaining the reasons for withdrawal; official transcripts of all college work attempted; and syllabi of all nursing courses taken. An interview may be requested by the APG committee. Students requesting advanced placement in the nursing program may be required to pass a simulated clinical performance and dosage computation examination. In addition, a written theory examination may be required.
3. At least 25 percent of the credits required for the degree must be completed at NKU.
4. The last 30 semester credit hours must be completed at NKU.
5. Students transferring to NKU after failing a nursing class at another nursing school will be dismissed from NKU’s B.S.N. program if they fail a nursing class at NKU (C- or below).

Progression:

1. To continue in the nursing program, students must maintain a GPA of at least 2.70 and achieve a grade of C or higher in all required nursing and support courses.

2. Students withdrawing from the nursing program for any reason are requested to have an exit interview with the program director or faculty advisor.
3. Students may repeat only one semester in which one or more nursing courses were failed. Students who have a second semester with a failing grade in nursing are dismissed from the B.S.N. program and are ineligible for readmission until after four calendar years have passed from the date of the failure. A failure is considered a C- or below.
4. If a didactic course has a clinical co-requisite course, both must be repeated concurrently.
5. Students are expected to progress sequentially through the nursing program. In order to be eligible to enroll in a succeeding nursing course, the student is required to meet all program requirements and academic standards.
6. Critical skills: Students are required to show ability to perform certain basic nursing skills during each semester. Failure to demonstrate continued ability to perform these skills will provide a basis for failure of the clinical component.
7. Students must concurrently take and pass nursing courses that are co-requisites.
8. The B.S.N. program must be completed in 8 semesters.

Evolve- Curriculum Support: All students will participate in the Evolve- Curriculum Support Program. This is a commercial program that provides additional resources for student learning. It is composed of case studies, practice tests/quizzes, and standardized testing. Completion of these will be dictated by course syllabi, and standardized test scores will contribute to final course grades in select nursing courses. **A minimum score of 900 is required on the HESI RN-EXIT exam in order to graduate from the traditional B.S.N. and B.S.N. second-degree programs.** A fee attached to selected courses (currently \$120 per semester) will be assessed for this service.

Academic leave: If a student identifies that there are situational or personal factors that may preclude his or her academic success, he or she may request an *academic leave* from the B.S.N. program for a single semester after successful completion of the first nursing semester. If approved, the student will be eligible to return to his or her current placement in the curriculum and will not be required to apply for readmission to the B.S.N. program. The policy and procedures for an *academic leave* request are outlined in the B.S.N. student handbook, which is available on Blackboard. The student may apply for more than one academic leave; however, the leaves may not be back to back, and the student must complete the B.S.N. program within eight semesters.

Readmission: If a student has a failure in a nursing course an application for readmission to the nursing program will be considered on an individual and space-available basis. Students must submit an application for readmission to the Admission, Progression, and Graduation Committee. A letter supporting the request for readmission must be attached to the application. This letter should outline strategies for success in the program. Students applying for readmission may be required to have an interview with the program director or faculty advisor. To be considered for readmission, the student must have at least a 2.70 GPA. The program director or faculty advisor may state that written, specific conditions must be met by the student when recommended for readmission. A student who did not successfully complete the first semester of the nursing program must apply as a new student and meet all requirements listed under “Admission Requirements.” (See B.S.N. 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. A student dismissed from the nursing program for a second

nursing failure may reapply after four calendar years have passed since the previous nursing failure if the student meets current eligibility requirements. Students will then be considered as part of the applicant pool as a new student to begin the program from the beginning. (This is true of the B.S.N. and the A.B.S.N. Programs).

Student advising: Upon admission to the nursing program, students are assigned to a faculty academic advisor and are required to meet with this advisor at least once each semester. Students are encouraged to maintain regular contact with their advisor so that progress and performance can be discussed and counsel provided as necessary.

Degree Requirements: Traditional B.S.N.

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 of 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 OB and Newborn Nursing	3
NRS 360P	Principles of OB 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 2	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/ BIO 208L	Human Anatomy and Physiology with Laboratory*	4
BIO 209/ BIO 209L	Human Anatomy and Physiology II with Laboratory *	4
CHE 115/ CHE 115L	Physiological Chemistry with Laboratory*	4
BIO 202/ BIO 202L	Microbiology for Health Professionals and Laboratory*	4
PSY 100	Introduction to Psychology*	3
STA 205	Introduction to Statistical Methods* -- OR --	
STA 212	Statistics for Business Applications I*	3

PSY 321	Lifespan Development*	
	-- OR --	
EDU 300	Human Growth and Development*	3
Credits in Other Disciplines		31
TOTAL CREDITS		100

*These courses are prerequisites and co-requisites for other program courses. NKU graduates are required to earn 120 credit hours. Nursing graduates typically graduate with 121- 124 credit hours, which includes the Foundation of Knowledge general education requirements.

B.S.N. Second-Degree Program (Accelerated Bachelor of Science in Nursing)

The Bachelor of Science in nursing for students who already have a bachelor's degree provides preparation for registered nursing practice. The curriculum is composed of both didactic and clinical components. The curriculum blends scientific and humanistic theories with nursing theories to provide graduates with a foundation for professional nursing practice. Faculty members hold a doctoral or master's degree, and many are certified within their individual areas of specialty. Many members of the faculty continue to practice in healthcare settings and participate in research and other scholarly endeavors.

The A.B.S.N. program is designed for postbaccalaureate individuals who want to make a career change. The accelerated program is fast-paced and rigorous, incorporating three years of nursing courses into 16 months. The accelerated program is designed for nonworking, full-time students who can immerse themselves in the content.

Student advising: All students contemplating admission to the A.B.S.N. program are encouraged to contact an advisor regarding admission requirements. Students admitted to the A.B.S.N. program are assigned an advisor and are expected to maintain close contact with their advisor throughout the program of study. It is the responsibility of the student to initiate at least one advising session each semester.

Admission requirements: Admission to the A.B.S.N. program is highly selective. Priority will be given to students whose academic record reflects strength in the sciences and mathematics. To be considered for admission, one must:

1. Be a graduate of an accredited college or university with a bachelor's or higher degree, or within six months of graduation with a statement from the registrar, chair, or advisor that graduation requirements will be met prior to the start of A.B.S.N. classes.
2. Be admitted to NKU as a degree-seeking student with postbaccalaureate status without conditions.
3. Have a minimum cumulative GPA of 3.00 on a 4.00 scale for the most recent 30 credit hours of coursework. GPAs for admission to the A.B.S.N. program will be calculated using NKU and transfer coursework.
4. Complete at least two science prerequisite courses before applying.
5. Submit separate application to the Department of Nursing by February 1 for fall admission. The application is available in the nursing office in Albright Health Center 303 or online (<http://healthprofessions.nku.edu/departments/nursing.html>). Mail or fax the completed application to the Department of Nursing. This application is in addition to the university application.
6. Complete the following prerequisite courses with a grade of at least a C in each course. Prerequisites taken at another university are not considered completed until the course has been transferred to NKU. **NO EXCEPTIONS.**
 - BIO 208, 208L, BIO 209, 209L
 - CHE 115/115L; -- OR -- CHE 120/120L and CHE 121/121L

- BIO 202/202L
 - BIO 126
 - PSY 321 -- OR -- EDU 300
 - STA 205 -- OR -- STA 212
 - INF 355
1. All prerequisite science courses for admission to the program must be fewer than eight years old as of the first day of the semester in which the program is started
 2. Applicants whose native language is other than English must demonstrate an established level of English proficiency by taking the Internet-based TOEFL. See special admission requirements under Department of Nursing for additional information.

Student criminal background check: Healthcare agencies are charged with providing care and protecting the safety of vulnerable populations including children and the aged. Agencies used for clinical placement require students to undergo criminal background checks and may deny clinical access to those convicted of felonies and certain misdemeanors. Conviction of these offenses may result in a student's denial of admission to, or dismissal from, the College of Health Professions. Applicants are required to submit to criminal background checks as identified by the College of Health Professions as part of the application process. The cost of this and any subsequent screening will be borne by the student. The student is responsible for notifying the College of Health Professions of any change in the status of this record after starting the program. Note that successful completion of a criminal background check does not ensure eligibility for certification, licensure, or future employment.

Please also note:

- Admission is provisional, based upon satisfactory completion of prerequisite courses, criminal background check, and TOEFL if applicable.
- A failure (grade of *C-*, *D*, or *F*) in any prerequisite course or nursing course within four years of the start of the program makes an applicant ineligible for the A.B.S.N. program.
- The Kentucky Board of Nursing has regulations regarding previous convictions that must be addressed prior to 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 B.S.N. and B.S.N. second-degree programs.** A fee will be assessed in selected A.B.S.N. courses for this testing and support program.

Progression:

- Students admitted to the A.B.S.N. program are subject to the program requirements of the catalog in effect at the time of entry.
- Upon matriculation into the A.B.S.N. program, students must take the last 30 semester hours from NKU.
- Students are expected to progress sequentially through the nursing program. In order to be eligible to enroll in a succeeding nursing course, the student is required to meet all program requirements and academic standards.
- A grade of *C* or higher must be achieved in all nursing courses.

- Critical skills: Students are required to show ability to perform certain basic nursing skills during each semester. Failure to demonstrate continued ability to perform these skills will provide a basis for failure of the clinical component.
- Students must concurrently take and pass nursing courses that are co-requisites.
- Failed nursing courses (grade of *C-* or below) may not be repeated in the accelerated program.

Readmission: Students who fail a nursing course (earning a *C-* or below) in the accelerated program are not eligible for readmission to the accelerated program. Students may apply for admission to the traditional baccalaureate program if they meet admission criteria and will be considered on a space-available basis.

Degree Requirements: Accelerated B.S.N.

Courses		Credits
NRS 210L	Development of Clinical Nursing Skills	2
NRS 215	Fundamental Concepts of Professional Nursing Practice	3
NRS 215P	Fundamental of Professional Nursing Practicum	2
NRS 220	Holistic Health Assessment of the Adult	2
NRS 220L	Holistic Health Assessment Laboratory	1
NRS 250	Introduction to Medical-Surgical Nursing	3
NRS 250P	Introduction to Medical-Surgical Nursing Practicum	4
NRS 255	Pathopharmacological Concepts and Principles	4
NRS 310	Concepts of Community and Public Health Nursing	3
NRS 310P	Concepts of Community and Public Health Nursing Practicum	2
NRS 315	Theories and Concepts of 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 OB and Newborn Nursing	3
NRS 360P	Principles of OB 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 1	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 2	1
TOTAL CREDITS		69

Department of Advanced Nursing Studies

Location: Albright Health Center 206

Telephone: 859-572-7964 **Fax:** 859-572-1934

Email Address: advancednursing@nku.edu

Web Address:

<http://healthprofessions.nku.edu/departments/advancednursing.html>

Department Chair: Adrienne Lane

Other Key Personnel:

R.N.-B.S.N. Program Director: Ann Keller

Advisor: Sarah Dill

Department Coordinator: Amanda Kilmer

Department Secretary: Heather Moulton

Full-time Faculty: Annie Dollins, Pam Fletcher, Cindy Foster, Ann Keller, Patricia Sunderhaus, Cheryl Swayne

Undergraduate Program:

Major:

Bachelor of Science in Nursing

Bachelor of Science for Registered Nurses (R.N. to B.S.N.)

The online registered nurse to Bachelor of Science in nursing (R.N. to B.S.N.) provides career mobility for the registered nurse. The coursework blends scientific and humanistic theories with nursing theories to provide graduates with a foundation for professional nursing practice. Graduates are prepared to function in primary, secondary, and tertiary care settings and in roles that are dependent, interdependent, or independent according to the level of care required. They are able to lead and influence colleagues and coworkers for the enhancement of their knowledge and skills, thereby effecting change to promote quality nursing care for clients in any health setting. The Bachelor of Science in nursing (B.S.N.) is designed to provide a foundation for higher degree programs in nursing.

Special opportunities for our students: The online R.N. to B.S.N. 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.

You should know: The R.N. to B.S.N. is fully accredited by the Accreditation Commission for Education in Nursing,

Pre-major requirements: Students enrolled in courses at NKU preparing for admission to the online R.N. to B.S.N. program should declare as their major pre-baccalaureate nursing distance (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 fully admitted to NKU as a degree-seeking student.
- Submit a separate application (<http://advancednursing.nku.edu>) to the R.N. to B.S.N. program. This application is in addition to the university application.
- Submit to the Office of Admissions:
 - Official transcripts from an associate degree or diploma program in nursing.
 - Official transcripts from all postsecondary work completed.
- Possess a cumulative GPA of 2.50 on a 4.00 scale.

- Complete the following prerequisite courses with a minimum grade of *C* in each course.
 - One full year of English composition (ENG 101 and ENG 291)
 - One full year of anatomy and physiology with labs (BIO 208, BIO 208L, BIO 209, BIO 209L).
 - Microbiology for Health Professionals with Laboratory (BIO 202/BIO 202L).
 - Introduction to Psychology (PSY 100).
 - Lifespan Development -- OR -- Human Growth and Development ((PSY 321 -- OR -- EDU 300).
 - Introduction to Statistical Methods -- OR -- Statistics for Business Applications I (STA 205 -- OR -- STA 212).
 - Health Care Ethics -- OR -- Ethics (PHI 220 -- OR -- PHI 200).
- Hold current, unrestricted R.N. licensure. Proof of Ohio and Kentucky licensure is mandatory prior to the first day of any clinical course.

NOTE: Acceptance into the nursing program is provisional pending receipt of all required paperwork, including a criminal background check and proof of unrestricted R.N. licensure.

Admitted students must:

1. Submit the following paperwork:
 - a. Proof of "CPR for Health Providers" certification in effect for the upcoming academic year.
 - b. Immunization records, including up to date TB and seasonal flu, and completed student health report.
 - c. Proof of health insurance coverage.
 - d. HIPAA and OSHA training.
2. All records must be submitted together before the posted deadline.
3. Maintain the minimum GPA required for progression (see R.N. to B.S.N. handbook).

NKU College of Health Professions policies:

Student criminal background check: Healthcare agencies are charged with providing care and protecting the safety of vulnerable populations including children and the aged. Agencies used for clinical placement require students to undergo criminal background checks and may deny clinical access to those convicted of felonies and certain misdemeanors. Conviction of these offenses may result in a student's denial of admission to, or dismissal from, the College of Health Professions. Applicants are required to submit to criminal background checks as identified by the College of Health Professions as a part of the application process. The cost of this and any subsequent screening will be borne by the student. The student is responsible for notifying the College of Health Professions of any change in the status of this record.

Progression: To progress in the R.N. to B.S.N. nursing program, students must achieve a grade of *C* or higher in all required nursing and support courses. Students withdrawing from the nursing program for any reason are requested to have an exit interview with the program director or faculty advisor. Students may repeat only one semester of nursing. If a didactic course has a clinical co-requisite course, both must be repeated concurrently.

You should also know: The R.N. to B.S.N. curriculum was revised effective fall 2011. The program is only offered in an online format. The

application for admission and the registration process are also handled online.

Students entering the R.N. to B.S.N. program may have transfer credit hours that will satisfy some of the requirements of the program.

Degree Requirements: R.N. to B.S.N. program

Courses in Nursing		Credits
NRP 316L	Evaluation of Clinical Performance	5
NRP 317L	Decision Making in Nursing	5
NRP 401	Theories and Concepts of Professional Nursing	3
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
Select one 300/400/500-level course (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
Gen Ed	Oral Communication	3
Gen Ed	Cultural Pluralism	3
Gen Ed	Individual and Society	3
Gen Ed	Culture and Creativity	6
BIO 208/ BIO 208L	Human Anatomy and Physiology I with Laboratory	4
BIO 209/ BIO 209L	Human Anatomy and Physiology II with Laboratory	4
BIO 202/ BIO 202L	Microbiology for Health Professionals with Laboratory	4
PSY 100	Introduction to Psychology	3
STA 205	Introduction to Statistical Methods -- OR --	3
STA 212	Statistics for Business Applications I	
PSY 321	Lifespan Development -- OR --	
EDU 300	Human Growth and Development	3
PHI 200	Ethics -- OR --	3
PHI 220	Healthcare Ethics	
Credits in Other Disciplines		48
TOTAL CREDITS		93

COLLEGE OF INFORMATICS

Location: Griffin Hall 500

Telephone: 859-572-5668 **Fax:** 859-572-6176

Email Address: informatics@nku.edu

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

Dean: Kevin Kirby

Other Key Personnel:

Associate Dean: Maureen Doyle

Business Officer: Pam Wagar

Director of Creative Technology: Dan Koabel

Executive Assistant: L. Sue Murphy

The College of Informatics offers a 21st-century perspective on the disciplines that have **information** at their core. We are home to the departments of communication, computer science, and business informatics. Through our outreach arm, the Center for Applied Informatics, our students have the opportunity to work with companies and other organizations on cutting-edge projects.

The college offers ten bachelor's degrees, five master's degrees, and a variety of certificates, both graduate and undergraduate. Several of our programs are available in a variety of forms, including traditional face-to-face, fully online, and hybrid formats. Many of them accommodate working professionals who are only available for coursework in the evening and on weekends.

We have energetic faculty who have a passion for teaching, who are dedicated researchers, and who have a strong sense of civic engagement. Our advising center has a staff of eight to help students advance smoothly through their course of studies here.

Our home is NKU's state-of-the-art informatics center, Griffin Hall. In this open and social space, students have the opportunity to use the newest technologies and collaborate in innovative ways.

Above all, we embrace a culture of silo-breaking transdisciplinarity. In other words, the College of Informatics is not an island. We work together with all the other colleges on campus to advance the full range of NKU's mission. Informatics is networked into almost anything you can imagine, and we invite everyone to connect to us and explore.

College Advising Center

Location: Griffin Hall 404 A-F

Email Address: informaticsadvising@nku.edu

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

Director: Rees Storm

Academic Advisors:

Torialyn Crook

Leslie Hammann

Jim Hughes

Rebekah Richardson

Rebecca Walker

Jenny Wagner

Lynn Warner

It is the mission of the COI advising office to advise, teach, assist, and empower you. Our advisors accomplish this by assisting you in selecting courses for your desired major, ultimately enabling you to successfully complete your degree. More importantly, our advisors are trained to listen to your concerns in an open and caring way.

There is a lot of information available on our website, but keep in mind that as careers change, so do their degree requirements. Therefore, while many of your questions may be answered after viewing the contents of our site, we strongly recommend that you always consult an advisor at least once a semester with your specific questions.

Departments

Business Informatics

Communication

Computer Science

Accreditations

Business informatics is accredited by 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

Email Address: cai@nku.edu

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

Director: Tim Ferguson

The Center for Applied Informatics provides students with extensive access to internships, cooperatives, and experiential learning in a real-world environment. Via CAI, the university directly contributes to the development of the commonwealth and tri-state area by connecting the best informatics students, professional staff, and awarding-winning faculty, versed in the latest research and industry best practices, with businesses and organizations seeking expertise. This collaboration forms the building blocks of student academic success and business innovation both locally and worldwide. At any given time, our students, faculty, and staff are engaging a variety of applied research projects, composed of the communicative, technical, and creative elements that are informatics.

Department of Business Informatics

Location: Griffin Hall 400

Telephone: 859-572-6366 **Fax:** 859-572-5398

Email Address: bis@nku.edu

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

Department Chair: Ben Martz

Other Key Personnel:

MBI Program Director: Vijay Raghavan

MHI Program Coordinator: Pam Atkinson

Department Coordinator: Marilyn McGinley

Academic Advisor: Jim Hughes

Library Informatics Program Coordinator: Leslie Hammann

Full-Time Faculty: Kalyani Ankem, Pam Atkinson, Frank Braun, Tony Burk, Teuta Cata, Mary Chesnut, Kevin Gallagher, Samuel Goh, Jerry Gonnella, Leslie Hammann, Jim Hughes, David Manning, Ben Martz, Vijay Raghavan, Joe Rubleske, Toru Sakaguchi, Xiaoni Zhang

Undergraduate Programs:

Majors:

Bachelor of Science

Business Informatics

Library Informatics

Minor:

Business Informatics

Certificates:

Business Informatics (Undergraduate Certificate)

Information Systems Development (Postbaccalaureate Certificate)

Information Systems Management (Postbaccalaureate Certificate)

Thinking about the discipline: Informatics is the study of information technology in a context. At the undergraduate level, the business informatics department offers two complementary contexts for the study and application of information technology: business and library science.

These programs focus on the broad information systems aspect of business theory and practice. Students will develop skills in:

- Automating business processes such as project management and workflow analysis.
- Managing information functions such as software analysis and design and databases.
- Quantitative analysis and decision making such as developing dashboards and business intelligence

On the edge of a digital revolution, the world of business is relying more and more on technology for business processing, problem solving, and project management. NKU's Department of Business Informatics will prepare students to enter the marketplace with the competitive edge they will need to capture top jobs and start their careers in business, government institutions, educational organizations, healthcare facilities, and other information-based organizations.

Systems careers (for example, business analysts) are projected to be some of the fastest-growing careers through 2018.

Special opportunities for our students: Internships and co-ops may be used as electives in business informatics programs. To better match students with opportunities brought to us by employers, the department has in place a new system within the College of Informatics. To get started, students should complete a profile (<https://www.myinterfase.com/nku/student>).

Special admission requirements: The business informatics degree is AACSB-accredited. Therefore, students desiring to major in business

informatics must meet selective admission requirements co-established with the Haile/U.S. Bank College of Business. Some of the selective admission courses may fulfill requirements in several mandatory categories: general studies requirements, requirements for the major in business informatics, and requirements for the minor in business administration. The selective admission requirements for the major in information systems can be met by completing the 10 courses listed in the "Degree Requirements: B.S. - Business Informatics" table and maintaining a minimum GPA of 2.50.

Special graduation requirements: The Bachelor of Science in business informatics requires completion of the minor in business administration.

Business Informatics Majors

Bachelor of Science with a major in Business Informatics and the required minor in Business Administration

Business informatics prepares students for information systems careers in business computing, including work as business analysts, applications programmers, programmer/analysts, systems analysts, systems designers, database and data communication specialists, computer consultants, and other professional-level occupations involving analysis, design, development, and management of computer-based information systems. The program combines technical skills, analytical techniques, business knowledge, and a systems perspective for integrating the computer within transaction processing, management information, and decision-support systems found in businesses today. The Bachelor of Science in business informatics can be completed in the Program for Adult-Centered Education format, as well as online.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Business Informatics

Selective Admission Courses		Credits
ENG 101	College Writing	3
MAT 114	Finite Mathematics <i>Prerequisite: MAT 109 or ACT >23</i>	3
CMST 101	Public Speaking	3
ACC 200	Principles of Accounting I-Financial* <i>Prerequisite: INF 101</i>	3
ACC 201	Principles of Accounting II-Managerial*	3
BUS 230	Legal Environment*	3
ECO 200	Principles of Macroeconomics*	3
ECO 201	Principles of Microeconomics*	3
ENG 291	Advanced College Writing	3
STA 212	Statistics for Business Applications I	3
Selective Admission Credits		30
Courses in Business		
MAT 109	Algebra for College Students	3
Select one course from the following:		
BIS 380	Quantitative Analysis with Excel	3
MAT 112	Applied Calculus	
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		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 357	Enterprise Resource Planning Using SAP	9
BIS 382	Principles of Information Security <i>Prerequisite: BIS 300</i>	
BIS 394	Topics: Information Systems	
BIS 402	Programming for E-Business	
BIS 357	Enterprise Resource Planning Using SAP	
BIS 420	Business Intelligence and Enterprise Applications	
BIS 430	Workflow Design and Management	
BIS 435	Database Management Systems	
BIS 440	Global Information Technology Management	
BIS 494	Topics: Information Systems	
Credits in Business Informatics		33
TOTAL CREDITS		93

*These courses complete the required minor in business administration.

Bachelor of Science with a major in Library Informatics

By completing a bachelor's degree in library informatics a student will be prepared to work in the expanding career fields of information evaluation and management. Professional positions are available in a wide variety of settings: libraries, corporate information centers, research divisions, government agencies, public service institutions, and more. The Bachelor of Science in library informatics can be completed in a fully online format.

Courses in this program focus on three broad areas of expertise for information specialists:

- **Organizing information:** Through coursework, students will learn to use technology, identification schemes, and classification models to manage information more effectively. Examples of specific course topics include the subject classification systems, meta-data programs, information policy, information entrepreneurship, preservation of original sources, and the unique organizational demands of multiple media materials.
- **Assessing information:** Coursework will guide students in the development of effective and efficient information retrieval and will build skills to devise effective search strategies for a wide variety of database structures and search engine protocols. Examples of specific course topics include the use of tertiary reference guides to streamline information seeking; publication and dissemination cycles; the structure of information searches to

retrieve specific information characteristics; cost-benefit analyses of information searches; and ethical and legal issues in using information.

- **Assessing information:** Course content centers on evaluating usability, reliability, and sufficiency of information sources. Specific study would include applying critical thinking skills to the analysis of resources; matching information sources to specific audience needs; judging the relative value of various information packages; and evaluating decision-making models using data and opinion sources.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Library Informatics

Courses		Credits
LIN 300	Information in Our Society	3
LIN 301	Introduction to Meta Information Systems	3
LIN 302	Digital Searching Interfaces	3
LIN 303	Critical Reading	3
INF 282	Introduction to Databases	3
LIN 400	Current Trends in Information Studies	3
LIN 496	Senior Practicum	3
LIN 175	Information Literacy	3
LIN 414	Advanced Information Literacy Skills	3
INF 101	Computer Literacy and Informatics	3
BIS 300	Management Information Systems <i>Prerequisite: STA 205, STA 212 or STA 250</i>	3
Select three courses from the following:		
CIT 247	Networking Fundamentals	9
INF 186	Media Web Coding	
INF 284	Introduction to Networks and Data Communication	
LIN 305	Government Information	
LIN 394	Topics	
LIN 405	Intellectual Property and Information Rights	
LIN 420	Management in Library and Information Centers	
PHI 210	Information Ethics	
JOU 440	Media Ethics	
Select three 300/400/500-level information technology/communication courses		9
Select two 300/400/500-level psychology/sociology courses		6
Select three 300/400/500-level organizational studies/research methods		9
TOTAL CREDITS		66

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 300/400/500-level and above.

Business Informatics Minors

Minor in Business Informatics

The department offers a minor in business informatics that consists of 21 credit hours (9 hours required, 3 credits of electives at the 100 level and above, and 9 credit hours of electives at the 300/400/500 level).

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included

in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Business Informatics		Credits
INF 110	Business Programming	3
INF 282	Introduction to Databases	3
BIS 300	Management Information Systems <i>Prerequisite: STA 205, STA 212 or STA 250</i>	3
Select one course from the following:		
INF 186	Media Web Coding	3
INF 284	Introduction to Networks and Data Communication	
INF 286	Introduction to Web Development	
Select three courses from the following:		
BIS 305	Advanced Business Programming	9
BIS 310	Information Systems Analysis	
BIS 330	IT Project Management	
BIS 380	Quantitative Analysis with Excel	
BIS 382	Principles of Information Security	
BIS 402	Programming for E-Business	
BIS 357	Enterprise Resource Planning Using SAP	
BIS 420	Business Intelligence and Enterprise Applications	
BIS 430	Workflow Design and Management	
BIS 435	Database Management Systems	
BIS 440	Global Information Technology Management	
TOTAL CREDITS		21

Minor in Health Informatics

The department offers a minor in health informatics that consists of 21 credit hours.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

After completing the minor, the successful student will have competence in the underlying skills necessary to become a health informaticist. Students will be able to demonstrate knowledge in the health informatics field and in information systems as it relates to healthcare. Students will be able to analyze, synthesize, and problem solve using a variety of techniques and tools.

Requirements for minor: Health Informatics		Credits
INF 282	Introduction to Databases	3
HIN 355	Introduction to Health Informatics	3
HIN 356	Health Information Management	3
BIS 300	Management Information Systems <i>Prerequisite: STA 205, STA 212, or STA 250</i>	3
BIS 330	IT Project Management	3
BIS 380	Quantitative Analysis with Excel	3
BIS 382	Principles of Information Security	3
TOTAL CREDITS		21

Business Informatics Certificates

Certificate in Business Informatics

The business informatics certificate is available to current students and consists of 12 credit hours. 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 credit 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-Business	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 credit hours required.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Postbaccalaureate Certificate: Information Systems Management		Credits
INF 110	Business Programming	3
BIS 300	Management Information Systems <i>Prerequisite: STA 205, STA 212 or STA 250</i>	3
BIS 330	IT Project Management	3
BIS 440	Global Information Technology Management	3
BIS 485	Strategic Information Systems Management (capstone)	3
TOTAL CREDITS		15

Department of Communication

Location: Griffin Hall 400

Telephone: 859-572-5435 **Fax:** 859-572-6187

Email Address: communication@nku.edu

Web Address:

<http://informatics.nku.edu/departments/communication.html>

Department Chair: Zachary Hart

Other Key Personnel:

Communication Studies Program Director: Stephen Yungbluth

Electronic Media & Broadcasting Program Director: Christopher Strobel

Journalism Program Director: Brad Scharlott

Media Informatics Program Director: Renee Human

Public Relations Program Director: Gregory De Blasio

Graduate Studies Director: Andrea Lambert-South

General Education Director: Yasue Kuwahara

Student Media Adviser: Michele Day

Department Coordinator: Randy Little

Administrative Secretary: Christa Kilvington

College of Informatics Advising Center Director: Rees Storm

Academic Advisors: Torialyn Crook, Rebekah Richardson, Jenny Wagner, Rebecca Walker

Full-Time Faculty: Wesley Akers, Tony Chowning, Mary Cupito, Michele Day, Gregory De Blasio, Sara Drabik, Pamela Fisher, Monica Gallegos, John Gibson, Zachary Hart, Renee Human, Stephen Johnson, Stephanie Klatzke, Yasue Kuwahara, Andrea Lambert-South, Austin Lee, Mark Leeman, Jacqueline McNally-Emerine, Russell Proctor, Lex Pulos, Bradford Scharlott, J. Michael Skaggs, Karen Slawter, Christopher Strobel, Penelope Summers, Ann Taylor, David Thomson, Steven Weiss, Stephen Yungbluth, Nicholas Zeman

Undergraduate Programs:

Majors:

Bachelor of Arts

Communication Studies

Electronic Media and Broadcasting

Journalism

Media Informatics

Public Relations

Minors:

Communication Studies

Electronic Media and Broadcasting

Journalism

Media Informatics

Popular Culture Studies (see interdisciplinary section of catalog)

Thinking about the discipline: The Department of Communication fosters an integrated approach to the study and practice of communication and emphasizes the fundamental role communication plays in virtually all human endeavors.

Students majoring in communication studies, electronic media and broadcasting, journalism, media informatics, or public relations will take courses that teach basic and advanced skills in computer-mediated, digital, spoken, visual, and written communication. They also promote an understanding of communication principles and theories as well as an awareness of the personal, social, psychological, and cultural impacts of communication. The department's courses also emphasize situational analysis, issue identification, problem solving, message construction, storytelling, and effective presentation.

Communication students aspire to become professional communicators in fields such as broadcast, online, and print journalism; digital, animated, audio, and video storytelling; organizational communication; public relations; and social informatics.

Special opportunities for our students: The communication department provides numerous opportunities for practical and applied experiences through an active internship program, projects and practicum courses, and student organizations. The department is home to Norse-Media, 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 -- OR --	3
CMST 340 Strategies of Persuasion -- OR --	
CMST 410 Rhetorical Theories	
CMST 355 Culture and Communication	3
CMST 370 Advanced Public Speaking	3
CMST 430 Communication Theories	3
Select two 200/300/400-level CMST courses	6
Select one CMST, EMB, JOU, MIN, POP, PRE, or 400/500-level COM course not used as a general education course.	3

Professional Skills Courses – select two courses from the following:	
ENG 340	Business Writing
ENG 347	Technical Writing
ENG 349	Web Writing for the Professions
JOU 220	News Writing
INF 101	Computer Literacy and Informatics
INF 186	Media Web Coding
MIN 221	Visual Fundamentals 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, focus, or second major requirements. Other courses may be substituted if approved by an 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	Single Camera Production 3
EMB 215	Introduction to Audio Production 3
EMB 260	Writing for the Media 3
EMB 396	Internship: Electronic Media and Broadcasting -- OR -- 3
EMB 397	Projects 3
EMB 400	Media Criticism -- OR -- 3
EMB 435	Advanced Media Studies 3
Conceptual Studies Courses – select two courses from the following:	
CMST 220	Interpersonal Communication
CMST 303	Organizational Communication
CMST 430	Communication Theories
PSY 304	Consumer Psychology
6	
Practical Courses – select two courses from the following:	
EMB 305	Multicamera Video Production
EMB 320	Advanced Audio Production
EMB 421	Advanced Narrative Production
EMB 422	Advanced Digital Video Editing
EMB 423	Documentary Production
6	

Business/Law/Ethics Courses – select two courses from the following:	
EMB 307	Broadcast Programming
EMB 313	Media Sales, Advertising, and Promotion
EMB 460	Media Management
JOU 485	Mass Communication Law
JOU 440	Media Ethics
6	
Select one 300/400-level EMB, MIN, or POP course	3
Select one College of Informatics course (BIS, CIT, CMST, CSC, EMB, INF, JOU, LIN, MIN, POP, or PRE)	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	News Media Workshop 3
JOU 346	Copy Editing and Design 3
JOU 397	Advanced News Media Workshop 3
JOU 440	Media Ethics 3
JOU 450	Media Skills 3
JOU 485	Mass Communication Law 3
Select four courses from the following:	
CEP 300	Cooperative Education
JOU 321	Digital Publishing
JOU 325	Photojournalism
JOU 330	Public Affairs Reporting
JOU 331	Specialty Reporting
JOU 340	Feature Writing
JOU 360	Interviewing
JOU 370	Principles of Advertising
JOU 374	Digital Age Advertising Problems and Policies
JOU 394	Special Topics in Journalism
JOU 396	Internship
JOU 421	Mass Communication History
JOU 492	Mass Communication Research Methods
JOU 499	Independent Study: Journalism
12	
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 Fundamentals for Digital Media	3
MIN 240 Introduction to Interactive Media	3
MIN 252 Nonlinear Interactive Storytelling	3
MIN 345 Introduction to 3D Modeling	3
MIN 352 Digital Media Projects	3
MIN 375 Impact of Computer Games and Virtual Worlds	3
MIN 420 Business of Media Informatics -- OR --	3
JOU 440 Media Ethics	
MIN 452 Advanced Digital Media Projects -- OR --	3
MIN 396 Internship: Media Informatics	
Select three courses from the following. Courses may come from different categories.	
Web/Mobile	
INF 260 Object-Oriented Programming I	
INF 282 Introduction to Databases	
INF 284 Introduction to Networks and Data Communication	
INF 286 Introduction to Web Development	
MIN 381 Computer-Mediated Communication	
MIN 394 Topics in New Media Art	
MIN 496 Senior Practicum	
2D	
ART 331 Digital Design	9
ARTM 394 Topics in New Media Art	
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	
3D	
ART 331 Digital Design	

ARTM 394	Topics in New Media Art	
MIN 394	Topics: Media Informatics (as approved by advisor)	
MIN 445	Intermediate 3D Modeling and Animation	
MIN 475	Advanced 3D Animation and Gaming	
MIN 496	Senior Practicum	
Select one College of Informatics course (BIS, CIT, CMST, CSC, EMB, INF, JOU, LIN, MIN, POP, or PRE)		3
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 -- OR --	3	
EMB 100 Media Literacy		
JOU 220 News Writing	3	
CMST 220 Interpersonal Communication	3	
CMST 303 Organizational Communication	3	
PRE 375 Principles of Public Relations	3	
JOU 485 Mass Communication Law	3	
PRE 400 Public Relations Planning and Account Management	3	
CMST 340 Strategies of Persuasion -- OR --	3	
JOU 370 Principles of Advertising		
PRE 376 Public Relations Writing	3	
Select one course from the following:		
JOU 321 Digital Publishing		
PRE 410 Electronic Public Relations	3	
CMST 370 Advanced Public Speaking		
PRE 385 Public Relations Research Methods -- OR --		
JOU 492 Mass Communication Research Methods -- OR --	3	
CMST 300 Research Methods in Communication Studies		
PRE 377 Public Relations Case Studies and Campaigns	3	
PRE 394 Topics in Public Relations -- OR --	3	
Select one 300/400-level elective in CMST, EMB, JOU, MIN, or POP		
PRE 396 Public Relations 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 credit hours including "CMST 220: Interpersonal Communication" and six CMST courses. "CMST 101: Public Speaking" and "CMST 110: Introduction to Communication Studies," which can be used for general education credit, cannot be used for the minor.

CMST minors must earn a grade of *C* or 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

EMB minors must earn a grade of *C* or better in all courses for the minor.

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	Single Camera Production	3
EMB 215	Introduction to Audio Production	3
Select two 300/400-level EMB courses		6
TOTAL CREDITS		21

Minor in Journalism

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

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 485	Mass Communication Law	3
JOU 440	Media Ethics	3
Select two 300/400-level JOU courses		6
TOTAL CREDITS		21

Minor in Media Informatics

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.

Requirements for Minor: Media Informatics		Credits
INF 186	Media Web Coding	3
MIN 221	Visual Fundamentals for Digital Media	3
MIN 240	Introduction to Interactive Media	3
MIN 345	Introduction to 3D Modeling	3
MIN 352	Digital Media Projects	3
Select two courses from the following:		
MIN 340	Media Scripting for Interactivity	6
MIN 381	Computer-Mediated Communication	
MIN 375	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 475	Advanced 3D Animation and Gaming	
TOTAL CREDITS		21

Department of Computer Science

Location: Griffin Hall 400

Telephone: 859-572-6930

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

Undergraduate Advising Information:

<http://informatics.nku.edu/advising-center.html>

Department Chair: James McGuffee

Other Key Personnel:

Program Director for Master of Science in Computer Information

Technology: Marius Truta

Program Director for Master of Science in Computer Science: Wei

Hao

Department Coordinator: Tracy DeBellevue

Full-Time Faculty: Alina Campan, Scot Cunningham, Maureen Doyle, Richard Fox, Charles Frank, Wei Hao, Yi Hu, Alex Kuhl, Gary Newell, Justin Smith, Marius Truta, James Walden, Hongmei Wang, Jeff Ward

Undergraduate Programs:

Majors:

Bachelor of Science

Computer Information Technology

Database/Web Track

Network/Security Track

Computer Science

Data Science

Minors:

Computer Information Technology, Computer Forensics

Computer Science, Information Security

Undergraduate Certificates:

Cybersecurity, Geographic Information Systems (GIS) (see interdisciplinary section of catalog), Information Technology,

Software Development

Thinking about the discipline: From smart phones to vast social networks, computing continues to change how we live. By majoring in one of the computing fields, a student gets a behind-the-scenes look at the digital world, moving from being a user of information technology to being a creator. Students with degrees in computer science often become software engineers; students with degrees in computer information technology often run large networks or complex websites; students with degrees in data science often develop software to model and visualize information on the petabyte scale.

These fields are not only exciting but are in great demand. The Bureau of Labor Statistics expects software engineering to experience "much faster than average growth" through 2022, and it reports that network systems and data communications analyst is the second-fastest growing job in the United States. Much of this growth is driven by interest in mobile application development and cyber security, two key areas featured in NKU's computing programs. The demand for data science graduates is expected to grow even faster. McKinsey & Co. forecasts that the United States will face a shortage of 140,000 to 190,000 people with data science skills by 2018.

Special opportunities for our students: Students in the computing majors have many opportunities to engage with projects and activities outside the classroom. Each fall, NKU sends teams of computer science majors to the regional Association for Computing Machinery programming competition. Each spring it sends a team of computer information technology majors to the regional Collegiate Cyber Defense Competition. Students interested in research work can get paid to work on projects with faculty members in a variety of areas, from web security to data mining. These student researchers often travel to conferences to present

their work. Many students in the department work part time for NKU's Center for Applied Informatics, developing mobile applications and websites for local companies and nonprofit organizations. Students often earn cooperative education credit for this work. 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 23 for computer information technology majors, a mathematics ACT score of at least 25 for computer science majors, and a mathematics ACT score of at least 25 for data science majors.

You should also know: Students must earn a grade of C- or better in each course that counts as part of a major or minor. Placement testing is available for some computer information technology, computer science and informatics courses. For more information contact an advisor in the College of Informatics advising center (Griffin Hall 404). Placement testing information for mathematics courses can be obtained from the Department of Mathematics and Statistics (Mathematics-Education-Psychology Center 401).

Computer Science Majors

Bachelor of Science with a major in Computer Information Technology

A major in computer information technology requires between 48 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, and the other on database and website administration.

The computer information technology major (network/security track), combined with a minor in business informatics, is available in an evening, nontraditional format for adult learners through PACE, the Program for Adult-Centered Education.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Computer Information Technology

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 (placement exam available) <i>Prerequisite: MAT 109 or placement.</i>	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 185	Introductory Discrete Mathematics <i>Prerequisite: MAT 109 or placement.</i>	3
PHI 210	Ethics of Information Technology	3
ENG 347	Technical Writing	3
Core Credits in Other Disciplines		9-12
TOTAL CORE CREDITS		30-33

Network/Security Track		Credits
CIT 480	Securing Computer Systems	3
CIT 447	Network Design and Troubleshooting	3
CIT 470	Advanced Network and System Administration	3
CIT 484	Network Security	3
Select three 300/400-level CIT courses not counted above		9
TOTAL TRACK CREDITS		21
Total Core Credits		30-33
TOTAL CREDITS		51-54

Database/Web Track		Credits
MIN 221	Visual Design for Digital Media	3
INF 260	Object-Oriented Programming I <i>Prerequisite: MAT 109 or placement.</i>	3
CSC 360	Object-Oriented Programming II <i>Prerequisite: MAT 119 or MAT 128 or MAT 129</i> -- OR --	3
CIT 483	Scripting II	3
CSC 301	Web Programming	3
CIT 436	Web Server Administration	3
CIT 472	Database Server Administration	3
CSC 456	Advanced Web Application Development -- OR -- One 300/400-level CIT course	3
TOTAL TRACK CREDITS		21
Total Core Credits		30-33
TOTAL CREDITS		51-54

Bachelor of Science with a major in Computer Science

A major in computer science requires between 57 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.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included

in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Computer Science

Courses in Informatics		Credits
INF 120	Elementary Programming (or placement)	0-3
INF 260	Object-Oriented Programming I <i>Prerequisite: MAT 109 or placement.</i>	3
INF 282	Introduction to Databases	3
INF 284	Introduction to Networks and Data Communication <i>Prerequisite: MAT 109 or placement.</i> -- OR --	3
CIT 247	Networking Fundamentals <i>Prerequisite: CIT 130</i>	3
INF 286	Introduction to Web Development (placement exam available) <i>Prerequisite: MAT 109 or placement.</i>	3
Credits in Informatics		12-15
Courses in Computer Science		
CSC 360	Object-Oriented Programming II <i>Prerequisite: MAT 119 or MAT 128 or MAT 129</i>	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
Select one 300/400-level CSC course not included above		3
Select two CSC 400-level CSC courses not included above; only one of CSC 415 or CSC 416 may count toward this requirement.		6
Credits in Computer Science		33
Courses in Mathematics and Statistics		
MAT 128	Calculus A <i>Prerequisite: MAT 119 or placement</i>	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 Mathematics and Statistics		15
TOTAL CREDITS		60-63

Bachelor of Science with a major in Data Science

A major in data science requires between 82 and 91 credit hours, depending upon ACT/SAT scores or successful completion of placement testing.

Students have the opportunity to complete one of two optional tracks, determined by selection of guided electives. The computation-intensive track involves selecting all three guided electives from computer science, data science, mathematics, and statistics courses. The business analytics track involves selecting all three guided electives from the business informatics courses.

The data science major automatically gives the student a minor in computer science. Depending upon the selection of the three guided elective courses, the student may also earn a minor in applied statistics, business informatics, or mathematics.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included

in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Degree Requirements: B.S. – Data Science

Courses in Informatics		Credits
INF 120	Elementary Programming (or placement)	0-3
INF 128	Principles of Informatics	3
INF 260	Object-Oriented Programming I <i>Prerequisite: MAT 109 or placement.</i>	3
INF 282	Introduction to Databases	3
Credits in Informatics		9-12
Courses in Business Informatics		Credits
BIS 275	Business Process Analysis	3
BIS 300	Management Information Systems	3
BIS 330	IT Project Management	3
BIS 380	Quantitative Analysis with Excel	3
BIS 430	Workflow Design and Management	3
Credits in Business Informatics		15
Courses in Computer Science		Credits
CSC 360	Object-Oriented Programming II	3
CSC 364	Data Structures and Algorithms	3
CSC 450	Database Management Systems	3
CSC 482	Computer Security	3
Credits in Computer Science		12
Courses in Data Science		Credits
DSC 101	Introduction to Data Science	1
DSC 311	Data Analytics	3
DSC 321	Data Visualization	3
DSC 411	Data Mining	3
DSC 421	Big Data	3
DSC 496	Data Science Capstone	3
Credits in Data Science		16
Courses in Mathematics and Statistics		Credits
MAT 128	Calculus A <i>Prerequisite: MAT 119 or placement.</i>	3
MAT 227	Calculus B	3
MAT 228	Calculus C	3
MAT 234	Linear Algebra	3
STA 250	Probability and Statistics I	3
STA 341	Statistics II	3
Credits in Mathematics and Statistics		18
Courses in Other Disciplines		Credits
ECO 201	Principles of Microeconomics	3
Guided Electives		Credits
Select three courses from the following:		
BIS 310	Information Systems Analysis	9
BIS 382	Principles of Information Security	
BIS 420	Business Intelligence and Enterprise Applications	
CSC 301	Web Programming	
CSC 362	Computer Systems	
CSC 402	Advanced Programming Methods	
CSC 425	Artificial Intelligence	
CSC 464	Design and Analysis of Algorithms	
DSC 431	Network Analysis	
MAT 325	Differential Equations	
MAT 329	Calculus III	
MAT 375	Applied Mathematical Models	

STA 316	Regression Analysis
STA 317	Introduction to Time Series Analysis
STA 340	Probability II

TOTAL CREDITS 82-85

Computer Science Minors

Minor in Computer Information Technology

The minor in computer information technology emphasizes the fundamentals of networking and system administration, and consists of 21 hours of coursework.

Requirements for Minor: Computer Information Technology		Credits
INF 110	Business Programming -- OR --	3
INF 120	Elementary Programming -- OR --	
INF 260	Object-Oriented Programming I <i>Prerequisite: MAT 109 or placement</i>	
CIT 130	Information Technology Fundamentals	3
CIT 247	Networking Fundamentals	3
CIT 271	Windows Administration -- OR --	3
CIT 371	Unix Systems	
Select one 300/400-level CIT course		3
Select 6 credit hours of INF, CIT, or CSC courses not counted above		6
TOTAL CREDITS		21

Minor in Computer Forensics

The computer forensics minor prepares students for work on a forensics team in either a law enforcement or corporate setting. A minor in computer forensics requires between 27 and 30 credit hours, depending upon ACT/SAT scores or successful completion of placement testing. Although the balance of information technology and criminal justice coursework required for the study of computer forensics may seem daunting at first glance, two of the courses in the minor, "INF 120: Elementary Programming" and "JUS 101: Introduction to Criminal Justice," also satisfy general education requirements. This minor is particularly well suited for students majoring in either computer information technology or criminal justice, in which case the credit hours required amount to 21 or fewer.

Requirements for Minor: Computer Forensics		Credits
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 480	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		27-30

Minor in Computer Science

The minor in computer science emphasizes the fundamentals of software development, and requires between 21 and 27 hours of coursework, depending upon ACT/SAT scores or successful completion of placement testing. The minor is valuable for students majoring in the sciences or business who wish to develop a range of contemporary programming skills. It

is also valuable for secondary education majors planning to teach computer science. (The Computer Science Teachers Association website has detailed information on teaching in this field.)

Requirements for Minor: Computer Science		Credits
INF 120	Elementary Programming (or placement)	0-3
INF 260	Object-Oriented Programming I <i>Prerequisite: MAT 109 or placement</i>	3
CSC 360	Object-Oriented Programming II <i>Prerequisite: MAT 119 or MAT 128 OR MAT 129</i>	3
CSC 362	Computer Systems -- OR --	3
CSC 364	Data Structures and Algorithms	3
Select 6 credit hours of CSC courses not counted above		6
Select 6 credit hours of INF, CSC, or CIT courses not counted above		6
TOTAL CREDITS		21-24

Minor in Information Security

The information security minor prepares students for work as specialists on corporate information security teams.

A minor in information security requires between 27 and 30 credit hours, depending upon ACT/SAT scores or successful completion of placement testing. This minor is particularly well suited for students majoring in either computer information technology or business informatics.

Requirements for Minor: Information Security		Credits
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 480	Securing Computer Systems	3
STA 205	Introduction to Statistical Methods -- OR --	
STA 212	Statistics for Business Applications I -- OR --	3
STA 250	Probability and Statistics I <i>Prerequisite: MAT 129 or MAT 227</i>	3
BIS 300	Management Information Systems	3
BIS 330	IT Project Management	3
BIS 382	Principles of Information Security	3
Select one course from the following:		
CIT 430	Computer Forensics	
CIT 484	Network Security	3
CSC 482	Computer Security	
CSC 483	Cryptology	
TOTAL CREDITS		27-30

Computer Science Undergraduate Certificates

Certificate in Cybersecurity

The target audience for this certificate is students wanted to earn academic credentials in computer security. The required courses in this program will all be offered *online*, thus allowing a greater flexibility in being able to complete this certificate. The job market is growing rapidly for people able to effectively secure computers. Computer security is a very challenging technical field, requiring hands-on knowledge of a broad range of technologies as well as an effective understanding of government laws and policies related to computer crime. Students completing this program will have demonstrated an understanding of all NSA-specified core knowledge units of computer security.

Requirements for Certificate: Cybersecurity		Credits
CIT 247	Networking Fundamentals <i>Prerequisite: CIT 130</i>	3
INF 282	Introduction to Databases	3
CIT 371	Unix Systems <i>Prerequisite: INF 120 or placement.</i>	3
BIS 382	Principles of Information Security <i>Prerequisite: BIS 300.</i>	3
CIT 480	Securing Computer Systems	3
CIT 481	Cybersecurity Capstone	3
TOTAL CREDITS		18

Certificate in Information Technology

This certificate concentrates on the fundamentals of information technology. The program is designed for individuals with various backgrounds who wish to retrain for employment in this high-demand field, as well as for those who, for financial or other reasons, cannot complete a full 120-hour bachelor's degree yet still wish to have a certificate as a credential for employment purposes.

Requirements for Certificate: Information Technology		Credits
CIT 130	Information Technology Fundamentals	3
CIT 247	Networking Fundamentals	3
CIT 271	Windows Administration	3
CIT 371	Unix Systems <i>Prerequisite: INF 120 or placement.</i>	3
CIT 480	Securing Computer Systems	3
TOTAL CREDITS		15

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
INF 120	Elementary Programming (or placement)	0-3
INF 260	Object-Oriented Programming I <i>Prerequisite: MAT 109 or placement.</i>	3
INF 282	Introduction to Databases	3
CSC 360	Object-Oriented Programming II <i>Prerequisite: MAT 119 or MAT 128 or MAT 129.</i>	3
CSC 364	Data Structures and Algorithms	3
Select two courses from the following:		
CSC 301	Web Programming	
CSC 362	Computer Systems	
CSC 402	Advanced Programming Methods	6
CSC 439	Software Testing and Maintenance	
CSC 456	Advanced Web Application Development	
TOTAL CREDITS		18-21

PRE-PROFESSIONAL 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-medical, pre-optometry, 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 21 interdisciplinary minors: ancient

civilizations, Asian studies, black studies, Celtic studies, Chinese studies, cinema studies, environmental studies, European studies, evolutionary studies, honors, international studies, Latin American and Caribbean studies, medieval and Renaissance studies, Middle Eastern and North African studies, Native American studies, neuroscience, popular culture studies, religious studies, social justice studies, Sub-Saharan African studies, and women's and gender studies. The university offers one interdisciplinary undergraduate certificate in geographic information systems.

Pre-Professional Programs

The information about pre-professional programs is general. Students interested in a professional program are advised to work closely with an NKU advisor who specializes in the professional area of interest. Students whose interests lie outside the areas included here should consult with an advisor before registering for classes. Those interested in a career in 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 on page 79 departments have faculty who are dedicated pre-dental advisors.

Coursework

Pre-dental students at NKU often choose majors in biological sciences (cellular/molecular/genetics track) or chemistry (biochemistry track) because these degrees include all the requirements for entry into dental schools. Students who choose non-science majors should complete electives at the 300/400/500 level and above in courses such as cell biology, biochemistry, molecular biology, physiology, and genetics. Requirements for dental schools generally include:

- Two semesters of biology with labs (some schools require an additional two semesters of biology courses at the 300/400/500 level).
- Two semesters of inorganic/general chemistry with labs.
- Two semesters of organic chemistry with labs.
- One semester of physics with labs.
- Two semesters of English/composition courses (discipline-specific 291W/391W courses are accepted).

AP credit

AP credit may be treated differently by specific dental programs regardless of how the credit is treated by NKU. Students who have AP credit and who wish to attend professional programs should work closely with their advisors.

First-year plan

Because students can pursue any degree program to prepare for dental school, only the first year of recommended study is shown below. To see four-year plans in particular areas (such as biological sciences or chemistry), please see those particular degree programs.

FIRST YEAR

Fall Semester		
CHE 120/120L	General Chemistry I with Laboratory	4
MAT 129	Calculus I -- OR --	3-4
MAT 112	Applied Calculus (biology only)	
Gen Ed:	Written Communication	3
BIO 150/150L	Introduction to Biology I with Lab	4
TOTAL		14-15

Spring Semester		
CHE 121/121L	General Chemistry II with Laboratory	4
MAT 229	Calculus II (chemistry) -- OR --	3-5
STA 205	Introduction to Statistical Methods (biology)	
Gen Ed:	Oral Communication	3
BIO 151/151L	Introduction to Biology II with Laboratory	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 University of Louisville, there are programs leading to degrees in chemical, civil, electrical, industrial, and mechanical engineering as well as a hybrid degree in engineering mathematics and computer science.

Pre-engineering students may elect to follow a three/two agreement that leads to the award of a degree in physics from NKU and the award of a degree in a field of engineering from the program and institution of choice. Alternatively, a student may elect to study at NKU for two years of coursework then transfer to another institution to complete the requirements for the B.S. in a field of engineering in two years without a physics degree from NKU.

Pre-engineers must contact the Department of Physics and Geology to obtain an academic advisor. Most pre-engineering students will be expected to complete at least this group of courses at NKU before transfer to a degree program in engineering:

- One year of English composition.
- Three semesters of calculus-based physics with lab.
- Two years of calculus and differential equations.
- One year of chemistry.
- Courses in computer graphics, general education, and introduction to engineering and design.

More information is available about pre-engineering and related programs in the catalog section for physics and geology.

Pre-Medical or Physician Assistant

Students who wish to pursue careers in medicine, including osteopathic medicine, and students who wish to become a physician's assistant may fulfill their admission requirements with any degree provided they fulfill the specific course requirements of those professional programs. Students interested in medicine should work closely with their advisors who will help ensure they complete the specific requirements for their desired programs and their NKU bachelor's degrees. Some departments, such as biological sciences and chemistry, have faculty who are dedicated pre-med advisors.

Coursework

The two most common degrees sought by pre-med students at NKU are in biological sciences (cellular/molecular/genetics track) and chemistry (biochemistry track). However, regardless of the major a student chooses, the requirements for entry into medical school are met by completing the courses listed below. It is recommended that non-science majors com-

plete several electives at the 300/400/500 level in biology, chemistry, or related disciplines. In addition, courses in mathematics, behavioral and social sciences, and the humanities provide excellent preparation for medical study. Requirements for professional medical programs generally include:

- One year of biology with labs.
- One year of inorganic/general chemistry with labs.
- One year of organic chemistry with labs.
- One year of physics with labs.
- One year of English/composition courses (discipline-specific 291W/391W courses are accepted).
- Mathematics (varies with programs; usually two semesters of mathematics required).

AP credit

AP credit is treated differently by specific medical and osteopathic programs regardless of how the credit is treated by NKU. Students who have AP credit and who wish to attend professional programs should work closely with their advisors.

First-year plan

Because students can pursue any degree program to prepare for medical school, only the first year of recommended study is shown below. To see four-year plans in particular areas (such as biological sciences or chemistry), please see those particular degree programs.

FIRST YEAR

Fall Semester		
CHE 120/120L	General Chemistry I with Laboratory	4
MAT 129	Calculus I -- OR --	3-4
MAT 112	Applied Calculus (biology only)	
Gen Ed	Written Communication	3
BIO 150/150L	Introduction to Biology I with Laboratory	4
TOTAL		14-15

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

Pre-Optometry

Students intending to enter the field of optometry should consult with the pre-optometry advisor in planning their curriculum. In general, the Bachelor of Science, cellular/molecular/genetics track with calculus (MAT 129) in biological sciences or the biochemistry track in chemistry are useful models.

Residents of Kentucky are provided spaces at Indiana University School of Optometry (Bloomington), Southern College of Optometry (Memphis, Tenn.), and University of Alabama at Birmingham School of Optometry. These students are exempt from out-of-state tuition.

Pre-Pharmacy

Some pharmacy schools accept students with or without their completing a bachelor's degree, but many pharmacy schools are converting to Pharm.D. programs that require a bachelor's degree for admission. For those schools that do not yet require a bachelor's degree, students who enter NKU are able to start their science courses right away, or students who have AP credit hours can complete the entry requirements in just two years, but more commonly, students require three years. Even for pharmacy schools that do not require a bachelor's degree for admission, advisors generally recommend that students fully complete their bachelor's degrees both to better prepare students for the rigors of pharmacy school and to give them maximal flexibility in their future career directions. Both the Department of Biological Sciences and the Department of Chemistry have faculty advisors who specialize in pre-pharmacy advising.

Coursework

The following coursework is generally required for admission to pharmacy school:

- Two semesters of biology with labs.
- One semester of microbiology with lab.
- One semester of anatomy and physiology with lab.
- Two semesters of inorganic/general chemistry with labs.
- Two semesters of organic chemistry with labs.
- One semester of calculus.
- One semester of statistics.
- Two semesters of physics with labs.
- Two semesters of English/composition courses (discipline-specific 291W courses are accepted).

Two-year plan

Following is shown one example of how to complete a common core of requirements in two years. Because requirements vary slightly between pharmacy programs, students are urged to work very closely with their advisors and plan accordingly. Please see four-year plans in particular areas of interest (such as biological sciences or chemistry) to see how the pre-pharmacy requirements can be met concurrently with the requirements for a bachelor's degree.

FIRST YEAR

Fall Semester		
CHE 120/120L	General Chemistry I with Laboratory	4
MAT 129	Calculus I -- OR --	3-4
MAT 112	Applied Calculus (biology only)	
Gen Ed	Written Communication I	3
BIO 150/150L	Introduction to Biology I with Laboratory	4
TOTAL		14-15

Spring Semester

CHE 121/121L	General Chemistry II with Laboratory	4
STA 205	Introduction to Statistical Methods	3
Gen Ed	Oral Communication	3
BIO 151/151L	Introduction to Biology II with Laboratory	4
TOTAL		14

SECOND YEAR

Fall Semester		
CHE 310/310L	Organic Chemistry I with Laboratory	4
PHY 211	General Physics with lab I	5
BIO 302/302L	General Microbiology with Laboratory	4
ECO 201	Principles of Microeconomics	4
TOTAL		17

Spring Semester		
CHE 311/311L	Organic Chemistry II with Laboratory	4
PHY 213	General Physics with Laboratory II	5
BIO 208/208L	Human Anatomy and Physiology I with Laboratory	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, students 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:

- Two semesters of biology with labs.
- Two semesters of inorganic/general chemistry with labs.
- One semester of statistics.
- One semester of medical terminology.
- Two semesters of physics with labs.
- One semester of oral communication.
- One semester of introduction to psychology.
- One semester of developmental psychology.

First-year plan

Because requirements vary slightly between physical therapy programs, students are urged to work very closely with their advisors to plan their program. Four-year plans in particular areas of interest (such as biological sciences or chemistry) show how the pre-physical therapy requirements can be met concurrently with the requirements for a bachelor's degree. Only the first year of recommended study is shown below.

FIRST YEAR

Fall Semester		
CHE 120/120L	General Chemistry I with Laboratory	4
MAT 129	Calculus I -- OR --	3-4
MAT 112	Applied Calculus (biology only)	
Gen Ed	Written Communication	3
BIO 150/150L	Introduction to Biology I with Laboratory	4
TOTAL		14-15

Spring Semester		
CHE 121/121L	General Chemistry II with Laboratory	4
STA 205	Introduction to Statistical Methods	3
Gen Ed	Oral Communication	3
BIO 151/151L	Introduction to Biology II with Laboratory	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, Ala., and Tuskegee University in Tuskegee, Ala. It is sometimes possible to

enter veterinary school with three years of study at NKU. However, because many more students apply to veterinary schools than are accepted, it is strongly advised that all pre-vet students plan their curricula in such a way that the addition of a fourth year of coursework will satisfy NKU's requirements for the bachelor's degree, usually in biological sciences or chemistry. To design a four-year curriculum that fulfills the pre-veterinary requirements and the requirements for a bachelor's degree, interested students should work closely with their advisors.

Coursework

Pre-veterinary students typically follow degree tracks for biological sciences (cellular/molecular/genetics track) or chemistry (biochemistry track), but any track will work as long as the veterinary entry requirements are met. It is recommended that non-science majors complete several electives at the 300/400/500 level in biology, chemistry or related disciplines to their degree programs. Program requirements for veterinary medicine generally include:

- One year of biology with labs plus two additional semesters of biology courses from a list of alternatives.
- One year of inorganic/general chemistry with labs.
- One year of organic chemistry with labs.
- One year of physics with labs.
- One year of English/composition courses (discipline-specific 291W courses are accepted).
- One semester of mathematics.
- One semester of biochemistry plus one semester of animal nutrition.
- Humanities, fine arts, social, and behavioral electives.

AP credit

AP credit is treated differently by specific veterinary programs regardless of how the credit is treated by NKU. Students who have AP credit and who wish to attend professional programs should work closely with their advisors.

First-year plan

Because students can pursue any degree program to prepare for veterinary school, only the first year of recommended study is shown below. To see four-year plans in particular areas (such as biological sciences or chemistry), please see those particular degree programs.

FIRST YEAR

Fall Semester		
CHE 120/120L	General Chemistry I with Laboratory	4
MAT 129	Calculus I -- OR --	3-4
MAT 112	Applied Calculus (biology only)	
Gen Ed	Written Communication	3
BIO 150/150L	Introduction to Biology I with Laboratory	4
TOTAL		14-15

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

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 150

Telephone: 859-572-1407 **Fax:** 859-572-5639

Email Address: envs@nku.edu

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

Program Director: Richard L. Boyce, Department of Biological Sciences

Other Faculty: Kristine N. Hopfensperger, Kirsten Schwarz

Bachelor of Science with a major in Environmental Science

The environmental science program is an interdisciplinary program that provides those interested in environmental careers with a strong background in biology, chemistry, geology, mathematics, and physics. This multidisciplinary background is combined with 300-level or above course requirements that integrate the disciplines and emphasize the scientific study of environmental issues from a research- and career-oriented perspective. The inclusion of research or internships enables students to gain expertise and experience to monitor, analyze, and contribute to the solution of current environmental problems. These opportunities are provided by faculty from the biology, chemistry, and physics and geology departments, the Center for Integrative Natural Science and Mathematics, the Center for Environmental Restoration, and industry and government agencies. Students graduating with a Bachelor of Science in environmental science are well equipped to join the ranks of other environmental professionals working with local, state, and federal agencies; consulting firms; or nonprofit organizations. They are also qualified to become part of a research team or pursue graduate study in environmental sciences.

Special admission requirements: The admission standards for all students pursuing degrees in environmental science are mathematics ACT 22 and CPE minimum standards of 18 and 20 reading, or successful completion of appropriate developmental courses. Transfer students must also meet these requirements before declaring an environmental science major.

You should also know: The degree of Bachelor of Science in environmental science will be conferred upon all students who complete all of the following course requirements with a grade of C- or better.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Click here for a 4-year plan showing one way a student can complete the program below in 4 years if the student requires no remedial courses.

Degree Requirements: B.S. – Environmental Science

Courses		Credits
BIO 150/150L	Introduction to Biology I with Laboratory	4
BIO 151/151L	Introduction to Biology II with Laboratory	4
BIO 304/304L	General Ecology with Laboratory	4
CHE 120/120L	General Chemistry I with Laboratory	4
CHE 121/121L	General Chemistry II with Laboratory	4
CHE 310/310L	Organic Chemistry I with Laboratory	4
ENV 110	Introduction to Environmental Science and Issues	3
ENV 115	Orientation to Environmental Science Careers	1
ENV 291W	Advanced Writing in Environmental Science <i>Prerequisite: ENG 101</i>	3
ENV 494	Seminar: Environmental Science	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	4
MAT 119	Precalculus 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
Select one course from the following:		
BIO 406	Ecosystem Ecology	
ENV 220/220L	Protecting Water Resources	
ENV 294	Topics in Environmental Science	3
ENV 350	Environmental Toxicology	
ENV 394	Topics in Environmental Science	
Or other course approved by the program director		
One 3-credit-hour internship --OR-- Directed research		3
A minor in biology, chemistry, geology, or geography (The requirements for the minor beyond the 8-4 credit hours are completed as part of the environmental science major.)		8-14
Total Credits		79-85

Integrative Studies

Location: Steely Library 410

Telephone: 859-572-1450 **Fax:** 859-572-6185

Email Address: ist@nku.edu

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

Program Director: Jennifer Webster

Other Key Personnel:

Undergraduate Advisors: Casey Binding, Samantha Muntis, Melody McMillan

Undergraduate Programs:

Associate of Arts
Integrative Studies
Bachelor of Arts
Integrative Studies

Thinking about the program: The integrative studies program provides the opportunity for students to pursue an individualized and broad-based education. The major is designed as a flexible program of multidisciplinary and integrative study. Although students follow different paths

through integrative studies, they share certain characteristics. One might think of this as the "guiding philosophy" of the program:

- Students embrace an interdisciplinary approach to education, striving to understand complex questions and problems that transcend any single discipline.
- Students refuse limitations within fields by integrating concepts and methods from multiple disciplines and knowledge bases.
- Students engage with their peers and faculty across disciplines, colleges, and institutions to offer new perspectives on traditional beliefs and practices.

You should also know: This major serves at least four groups of learners: (1) students with more general and eclectic interests who do not fit comfortably in a single discipline; (2) transfer students whose prior work does not mesh well with existing programs of study at NKU; (3) students leaving highly structured majors late in their undergraduate career; and (4) adult learners who have interrupted their studies for a prolonged period and return with a different academic focus to complete their degree requirements.

The associate and bachelor's programs for integrative studies are available as traditional daytime classes and in an evening, nontraditional format for adult learners through PACE. Students can learn more about this option by visiting the website (<http://artscience.nku.edu/departments/integrativestudies.html>). The associate program for integrative studies can also be completed through the NKU Grant County Center (<http://adultlearner.nku.edu/grantcounty.html>) in Williamstown.

Associate of Arts in Integrative Studies

The Associate of Arts in integrative studies is a flexible two-year degree ideal for students who are looking for academic accreditation either to advance their employment opportunities or as a stepping-stone toward a four-year degree.

The associate degree requires a focus in one of the following areas:

- Humanities
- Fine arts
- Social/behavioral sciences
- Natural sciences/mathematics

The focus must include 15 credit hours of coursework in the chosen area with at least 6 credit hours at the 300 level or above. Courses must be from at least two different disciplines within the chosen area.

Special admission requirements: For entrance into the Associate of Arts in integrative studies program, a student must not have completed more than 48 credit hours.

Special graduation requirements: To remain in the program, students must maintain an overall minimum GPA of 2.00 or better.

You should also know: This degree cannot be counted as a minor or focus.

Bachelor of Arts in Integrative Studies

Available in both traditional and fully-online formats.

This program requires students to complete minors or focus areas in four different disciplines. The requirements for a minor in any discipline are listed in the relevant department's pages in this catalog. A focus is defined as 12 credit hours at the 300/400/500 level, in any disciplinary major. The four areas of study must include:

- At least two areas from the College of Arts and Sciences.
- At least 45 credit hours in courses at the 300 level or above.
- This program's culminating experience – the capstone course – which involves both a portfolio of artifacts (work samples from each of the four disciplines studied), and a multidisciplinary project.

The program website includes specific information about the capstone course, portfolio, and multidisciplinary project.

Special graduation requirements: No grade of C- (or lower) will be accepted in any minor or focus.

International Studies

Location: Founders Hall 436

Telephone: 859-572-1961 **Fax:** 859-572-6184

Email Address: psc@nku.edu

Web Address:

<http://artscience.nku.edu/departments/psccj/programs/internationalstudies.html>

Program Coordinator: Shauna Reilly, Department of Political Science, Criminal Justice and Organizational Leadership

Bachelor of Arts with a major in International Studies

International relations are shaped by the forces of culture, ideology, identity, geography, history, religion, social relations, and economics. International studies is an interdisciplinary major that focuses on understanding these dynamic transnational factors and issues that influence relations between actors in the world system. The international studies major requires completing 15 hours in required classes; 27 hours in electives, with one course from each of the four international fields (business and economics, culture and ideas, development, and politics and policy); and two additional elective courses. Electives must include at least one course from each of the following disciplines: anthropology, geography, history, political science, and sociology.

Students must also complete 12 hours in a foreign language.

Only courses with a grade of C- or better may count toward an international studies major, minor, or area of focus. Students must have a cumulative GPA of at least 2.5 in their degree coursework to qualify for graduation.

Students are encouraged to complete study-abroad courses and internships toward the international studies major. Topics courses and independent study credit hours may fulfill secondary course requirements. Contact the international studies coordinator prior to enrolling in any of these options to verify whether the credit hours qualify, and if so, how much they will apply toward completing the major degree program requirements.

The Office of Education Abroad (University Center 330) can help with scholarship applications to offset expenses, including university scholarships, as well as a "beyond the classroom" scholarship toward study abroad, sponsored by the sociology department, for which all majors are eligible.

Degree Requirements: B.A. – International Studies

Courses		
PSC 103	International Politics	3
PSC 470	Globalization	3
Select three courses from the following:		
ANT 100	Introduction to Cultural Anthropology	3
ECO 200	Principles of Macroeconomics	3
GEO 101	World Regional Geography	3
HIS 111	Global Viewpoints in History	3
PSC 102	Comparative Politics	3
REL 200	World Religions and Cultures	3
SOC 101	Global Inequalities	3
Elementary Language I		3
Elementary Language II		3
Intermediate Language I		3
Intermediate Language II		3

Students placing out of the 202 level of language must complete one 300+ level language course at NKU.

Students may select from the following languages: Arabic, Chinese, French, German, Italian, Japanese, Korean, Russian, and Spanish. Note that Latin does not qualify.

French, German, Japanese, and Spanish sections of 101, 102, 201, and 202 are offered every fall and spring semester at NKU.

Arabic, Chinese, Italian, Korean, and Russian are offered as follows: 101 in the fall semester, 102 in the spring semester. Completing the intermediate level for these courses may involve taking courses off-campus through the regional consortium. Contact the Department of World Languages and Literatures for details regarding regularity and availability of these courses.

NOTE: When selecting courses from the following international fields, choose at least one course from ANT, GEO, HIS, PSC and SOC.

Business and Economics – select one course from the following:

ANT 386	Economy, Wealth, and Culture	
BIS 440	Global Information Technology Management	
CTE 316	Intercultural Business Communication	
ECO 340	International Economics	
ECO 342	Economic Development	3
ECO 344	Comparative Economic Systems	
FIN 415	International Finance	
GEO 303	Economic Geography	
MGT 355	International Business Environment	
MGT 360	Comparative International Management	
MKT 333	Global and Cultural Issues in Marketing	
MKT 360	International Marketing	
PSC 410	International Political Economy	

Culture and Ideas – Select one course from the following:

ANT 201	World Cultures	
ANT 275	Language and Culture	
ANT 301/	World Patterns of Race and Ethnicity	
SOC 301	World Patterns of Race Ethnicity	
ANT 320	Religion and Culture	
ANT 358	Arts and Culture	
CIN 201	Survey of World Cinema	
EMB 370	International Media Systems	
ENG 213	Global Viewpoints in Literature	
GEO 302	Cultural Geography	3
HNR 309	World Cities/World Cultures	
LDR 160	Leadership Around the World	
LDR 460	Leading in Diverse and Global Contexts	
MUS 106	Music of World Cultures	
PHI 320	Social and Political Philosophy	
PHI 309	Global Ethics	
POP 250	International Popular Culture	
PSC 312	Modern Ideologies	
PSC 322	International Politics in Film	
SOC 430	Sociology of Religion	
WGS 383	Women and World Cultures	

Development – select one course from the following:

ANT 345	Environmental Anthropology	
ANT 372	Peasant Societies	
ENG 304	Introduction to Post-Colonial Literature	
GEO 310	Geography of Population	
HIS 321	Modernization in the Non-Western World	3

PSC 338	U.S. Foreign Policy and the Developing World
PSC 410	International Political Economy
PSC 425	Sex and Global Society
PSC 465	Democracy and Democratization
SOC 340	Population
SOC 355	Sociology of the Environment

Politics and Policy – select one course from the following:

GEO 304	Political Geography and Geopolitics	
HIS 423	Diplomacy and Foreign Policy of the United States	
HIS 485	History of Terrorism	
PSC 415	United States Foreign Policy	3
PSC 480	International Law	
PSC 481	International Organizations	
PSC 482	Comparative Electoral Systems	
PSC 485	Comparative Foreign Policies	
PSC 486	Conflict and Security	
SOC 425	Political Sociology	

Select five courses from any of the above not previously chosen 15

TOTAL CREDITS 54

NOTE: For all options, other courses carrying international studies credit will be listed in the schedule of classes each semester and may be used as substitute electives on approval by the chair of the Department of Political Science, Criminal Justice, and Organizational Leadership or the coordinator of international studies.

Interdisciplinary Minors

Ancient Civilizations

Location: Landrum Academic Center 217C

Telephone: 859-572-5259 **Fax:** 859-572-6086

Email Address: voelkerj1@nku.edu

Web Address:

<http://arts.science.nku.edu/departments/sapdept/anthropology/undergraduate-programs/ancient-civilizations-minor.html>

Program Director: Judy Voelker, Department of Sociology, Anthropology, and Philosophy

Minor in Ancient Civilizations

The study of ancient human civilizations is both one of the most challenging and most rewarding fields of scholarly endeavor. Successful research across such a depth of time demands an interdisciplinary approach that draws upon a variety of fields, including anthropology, archaeology, art, classics, English, history, philosophy, political science, religious studies, theatre, world languages, and others.

Students and scholars who are willing to undertake such study are rewarded with insights into the period of human society when crucial steps were made in constructing the foundations for the modern world. It was, after all, in the ancient world that the building blocks of contemporary religions, languages, social systems, and technologies were laid down.

The ancient civilizations minor is built around a shared core of 6 credit hours and the choice of three independent tracks that allow students to design a minor tailored to their own scholarly interests and needs.

If a particular course has a prerequisite that is not listed as part of the minor requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Ancient Civilizations

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 <i>Prerequisite: LAT 102 or equivalent</i>	3
LAT 202	Intermediate Latin II	3
Select 9 credit hours from the following. Courses must come from at least two different disciplines.		
ANT 331	Women in Prehistory	
ARTH 101	Survey of Western Art I	
ARTH 350	Ancient Art	
ENG 206	Western World Literature I	
ENG 215	Greek and Roman Mythology	
ENG 315	The Bible as Literature	
HIS 100	History of Europe to 1500	
HIS 300	Ancient Near East and Greece to the Macedonian Conquest	
HIS 301	The Hellenistic World and Rome to the Death of Constantine	
HIS 365	European Military History: Ancient World to the Renaissance	
HIS 494	Topics: History (if a classics or Near East topic)	
HIS 594	Special Topics in History (if a classics or Near East topic)	9
LAT 280	Studies in Latin Language and Literature	
PHI 181	Philosophers, Cultures and Creativity	
PHI 355	Socrates and Plato	
PHI 394	Topics: Philosophy (if a classics or Near East topic)	
PSC 110	Political Ideas	
PSC 370	Ancient Political Theory	
PSC 394	Topics: Politics (if a classics or Near East topic)	
REL 302	Survey of the Hebrew Bible (Old Testament)	
REL 303	Survey of New Testament	
REL 307	Survey of Christianity	
REL 306	Introduction to Judaism	
REL 301	Ancient Religions	
TAR 346	Theatre History	
TOTAL TRACK CREDITS		15
Total Core Credits		6
TOTAL CREDITS		21

World Civilizations Track		Credits
Select 15 credit hours from the following. Courses must come from at least two different disciplines.		
ANT 110	Introduction to Archaeology	
ANT 318	Prehistoric Ecology	
ANT 331	Women in Prehistory	
ANT 352	Archaeology 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 338	History of Japan	
HIS 335	History of Ancient Africa	15
HIS 340	History of Imperial China	
HIS 494	Topics: History (if a world civilizations topic)	
HIS 594	Special Topics in History (if a world civilizations topic)	
JPN 201	Intermediate Japanese I	
JPN 202	Intermediate Japanese II	
PSC 394	Topics: Politics (if a world civilizations topic or a Near East topic)	
REL 305	Islam	
REL 394	Topics: Religious Studies (if a world civilizations topic)	
PSC 110	Political Ideas	
PSC 370	Ancient Political Theory	
REL 302	Survey of the Hebrew Bible (Old Testament)	
REL 303	Survey of New Testament	
REL 307	Survey of Christianity	
REL 306	Introduction to Judaism	
REL 301	Ancient Religions	
TAR 346	History of the Theatre and Dramatic Literature I	
TOTAL TRACK CREDITS		15
Total Core Credits		6
TOTAL CREDITS		21

General Track		Credits
Select 15 credit hours from the following. Courses must come from at least two different disciplines.		
ANT 110	Introduction to Archaeology	
ANT 318	Prehistoric Ecology	
ANT 331	Women in Prehistory	
ANT 352	Archaeology 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 1500	
HIS 300	The 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 338	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	15
HIS 494	Topics: History (if an ancient civilizations topic)	
HIS 594	Special Topics in History (if an ancient civilizations topic)	
JPN 201	Intermediate Japanese I	
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	Political Ideas	
PSC 370	Ancient Political Theory	
PSC 394	Topics: Politics (if an ancient civilizations topic)	
REL 302	Survey of the Hebrew Bible (Old Testament)	
REL 303	Survey of New Testament	
REL 307	Survey of Christianity	
REL 306	Introduction to Judaism	
REL 301	Ancient Religions	
REL 305	Islam	
REL 394	Topics: Religious Studies (if a world civilizations topic)	
TAR 346	History of the Theatre and Dramatic Literature I	
TOTAL TRACK CREDITS		15
Total Core Credits		6
TOTAL CREDITS		21

Asian Studies Minor

Location: Founders Hall 436

Telephone: 859-572-1961 **Fax:** 859-572-6184

Email Address: psc@nku.edu

Web Address:

<http://artscience.nku.edu/departments/psccj/programs/internationalstudies.html>

Program Coordinator: Shauna Reilly, Department of Political Science, Criminal Justice, and Organizational Leadership

This minor enables students to develop an integrated understanding of the culture, ideology, identity, geography, history, religion, social relations, and economics of Asia. The minor requires 18 credit hours, including 6 credit hours of relevant language courses.

Requirements for Minor: Asian Studies		Credits
Select one course from the following:*		
CHI 101	Elementary Chinese	3
JPN 101	Elementary Japanese I	
KOR 101	Elementary Korean I	
Select one course from the following:*		
CHI 102	Elementary Chinese II	3
JPN 102	Elementary Japanese II	
KOR 102	Elementary Korean II	
Select two courses from the following from two different disciplines:		
ANT 385	Peoples of East and Southeast Asia	6
HIS 338	History of Japan	
HIS 341	History of Revolutionary China	
PSC 388	Politics of Asia	
Select two courses from the following:		
ARTH 104	Survey of Asian Art	6
ARTH 452	Arts of South Asia	

ARTH 359	Arts and Crafts of Japan	6
ANT 385	Peoples of East and Southeast Asia	
GEO 410	Geography of East Asia	
HIS 338	History of Japan	
HIS 341	History of Revolutionary China	
JPN 380	Topics in Advanced Japanese	
PHI 312	Eastern Philosophy	
POP 345	Japanese Popular Culture	
PSC 388	Politics of Asia	
*General sequence of these courses includes CHI 101 in fall and CHI 102 in spring or JPN 101 in fall and JPN 102 in spring or KOR 101 in fall and KOR 102 in spring. Students are encouraged to pursue one or more Asian languages to at least the second part of the sequence in completing this minor.		
TOTAL CREDITS		18

Black Studies

Location: Landrum Academic Center 415

Telephone: 859-572-5461 **Fax:** 859-572-6088

Email Address: hisgeo1@nku.edu

Web Address:

<http://artscience.nku.edu/departments/hisgeo/programs/blackstudies.html>

Program Director: Eric Jackson, Department of History and Geography

Minor in Black Studies

The minor in black studies is a student-centered, academic, and community-service program designed to provide students with an interdisciplinary perspective on the lives of African Americans, Africans, and African people throughout the diaspora and their contributions to humanity. Specifically, the program is designed to acquaint students with:

- The historical experience of Africans and African Americans from pre-colonial Africa to contemporary times.
- Contributions of Africans and African Americans to the humanities.
- The study of the African American experience from a behavioral and social science perspective as well as contributions of African American people to these areas of study.
- The influence of the African American experience in various professional fields.

At least a C must be achieved to earn credit toward the minor.

Requirements for Minor: Black Studies		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:		
BLS 494	Topics: Black Studies	3
HIS 310	Colonial America to 1763	
HIS 316	Modern United States History since 1939	
HIS 553	History of the New South	
HIS 318	Current Events: Historical Perspective (when topic is applicable)	
HIS 325	Early Latin American History	
HIS 335	History of Ancient Africa	
HIS 336	History of Modern Africa	
HIS 380	History and Film (when topic is applicable)	
HIS 417	Civil War and Reconstruction, 1860-1877	
HIS 426	Historical Geography of the United States	
HIS 527	Urban History of the United States	

HIS 435	History of Race Relations in the Americas, 1492-1800
HIS 436	History of Race Relations in the Americas 1800-Present
HIS 438	African American Women's History and Culture
HIS 444	History of Women in the United States to 1900
HIS 445	History of Women in the United States since 1900
HIS 533	Causes of the Civil War
HIS 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 594	Special Topics in History (when topic is applicable)

Select one course from the following:

BLS 494	Topics: Black Studies	3
ANT 301	World Patterns of Race and Ethnicity	
ANT 330	Women, Gender, and Culture	
GEO 309	Historical Geography of the United States	
GEO 310	Geography of Population	
GEO 403	Geography of Africa	
GEO 492	Directed Research: Geography (when topic is applicable)	
GEO 594	Special Topics Geography (when topic is applicable)	
HNR 303	Humanity and the Imagination	
HNR 306	Studies in Diversity	
HSR 500	Multicultural Family Work	
JUS 231	Race, Gender, and Crime	
PSC 338	U.S. Foreign Policy and the Developing World	
PSC 394	Topics: Politics (if relevant to black studies)	
SOC 300	Race and Ethnic Relations	
SOC 301	World Patterns of Race Ethnicity	
SWK 106	Introduction to Social Justice	
SWK 203	Social Welfare in Contemporary Society	
SWK 594	Topics: Issues in Social Welfare (multiculturalism)	
SWK 594	Topics: Issues in Social Welfare (multiculturalism)	
WGS 388	African American Women's History and Culture	

Select one course from the following:

BLS 494	Topics: Black Studies	3
ENG 217	African American Literature to 1940	
ENG 218	African American Literature 1940-present	
ENG 300	American Women Poets	
ENG 305	American Women Writers	
ENG 467	Studies in African American Literature	
MUS 107	Survey of African American Music	
MUS 110	Appreciation of Jazz	
PHI 324	Africana Philosophy	
PHI 394	Topics: Philosophy (when topic is applicable)	
REL 394	Topics Religious Studies (when offered as "The Ethics and Theology of Martin Luther King, Jr., and Malcolm X")	
CMST 355	Culture and Communication	

TAR 102	Race, Gender and Theatre
TAR 452	Special Problems: Theatre Literature (when topic is applicable)
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
Email Address: simontonm@nku.edu
Web Address: <http://artsience.nku.edu/departments/sapdept/anthropology/undergraduate-programs/celtic-studies-minor.html>
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 and the world, emphasizing the "six Celtic nations" of Ireland, Scotland, Wales, Isle of Man, Cornwall (in England), and Brittany (in France) and the Celts of Iberia from the Iron Age to the 21st century. The minor also addresses the Celtic diaspora to places as far-flung in both space and time as ancient Egypt and Appalachia. To learn about Celtic peoples is to explore yet another avenue of what it means to be human.

The Celtic Studies program also offers students the opportunity to participate in Tuath an Ard Tire Ardai: The Celtic Studies Club, which is active in NKU, local, and regional activities. Our program also maintains a Facebook page, which has an international following.

Kentucky is rich in Celtic culture and history. Along with African Americans and German Americans, people of Celtic descent comprise one of the major ethnic groups in the metropolitan area in which NKU is located. NKU's Celtic Studies program is the only such program in Kentucky. Students are encouraged to participate regardless of background. Each year NKU anthropology faculty present the Outstanding Student in Celtic Studies Award.

Requirements for Minor: Celtic Studies		Credits
HIS 100	History of Europe to 1500	3
ANT 370	Celtic Europe	3
ANT 374	Celtic and Viking Archaeology	3
ENG 477	Irish Literary Renaissance	3

Select three courses from the following:

ANT 372	Peasant Societies	3
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
Email Address: worldanglit@nku.edu
Web Address: http://worldanglit.nku.edu

Minor in Chinese Studies

The minor in Chinese studies gives students the opportunity to gain knowledge of the Chinese people and their culture in an international context. The program, with coursework selected from several disciplines, provides a broad understanding of a nation and culture of great and growing significance to world affairs.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Chinese Studies		Credits
CHI 201	Intermediate Chinese I <i>Prerequisite: CHI 101 and CHI 102</i>	3
CHI 202	Intermediate Chinese II	3
Select at least three courses from the following:		
ARTH 104	Survey of Asian Art -- OR --	
MUS 106	Music of World Cultures	
CHI 380	Topics in Advanced Chinese (may be repeated once as a required course if topic varies)	
HIS 339	History of China	
HIS 340	History of Imperial China	9
HIS 341	History of Revolutionary China	
PHI 304	Zen	
PHI 312	Eastern Philosophy	
Select two of the following or any courses from previous area not already taken:		
ANT 380	Origins of Civilization	
ANT 385	Peoples of East and Southeast Asia	
CHI 350	Methods of Teaching Chinese	
GEO 410	Geography of East Asia	
GEO 540	Cultural Geography of Asia	6
PHI 309	Global Ethics	
PSC 388	Politics of Asia	
PSC 480	International Law	
PSC 485	Comparative Foreign Policies	
REL 350	World Religion and Ethics	
TOTAL CREDITS		21

Cinema Studies

Location: Landrum Academic Center 500
Telephone: 859-572-5578 **Fax:** 859-572-6093
Email 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 credit hours from the following (9 credit hours must be at the 300 level or above):		
CIN 494	Studies in Cinema (can be cross-listed)	
ANT 376	Irish Society Through Film	
EMB 100	Media Literacy	
EMB 140	Introduction to Media Aesthetics	
EMB 380	Documentary Theory and History	
ENG 302	Literature and Film (May NOT be repeated)	12
ENG 431/ 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	
PSC 322	International Politics in Film	
TOTAL CREDITS		21

Environmental Studies

Location: Herrmann Science Center 150
Telephone: 859-572-1407 **Fax:** 859-572-5639
Email Address: envs@nku.edu
Web Address: http://envsci.nku.edu/
Program Director: Richard L. Boyce, Department of Biological Sciences

Minor in Environmental Studies

The minor in environmental studies provides students with a coherent academic program that is sensitive and responsive to current and projected environmental problems facing humanity on a variety of levels. As a minor program, it is intended to broaden and strengthen a number of major programs by providing a useful focus on a wide range of environmental issues.

Requirements for Minor: Environmental Studies		Credits
BIO 123	Human Ecology -- OR --	3
ENV 110	Introduction to Environmental Science and Issues	
ENV 396	Internship: Environmental Science	3
ENV 494	Seminar: Environmental Science	1
Select 15 credit hours from the following:		
ANT 345	Environmental Anthropology	
BIO 304/304L	General Ecology with Laboratory	

CHE 112/112L	Chemistry and Society	
CMGT 323	Land Planning and Development	
EGT 423	Planning and Design of Industrial Facilities	
ENG 326	Literature and the Environment	
ENV 115	Orientation to Environmental Science Careers	
ENV 220/220L	Protecting Water Resources with Laboratory	
ENV 294	Topics in Environmental Science	
ENV 350	Environmental Toxicology	
ENV 394	Topics in Environmental Science	
GEO 314	Maps and Map Interpretation	15
GEO 306	Environmental Resource Management	
GEO 340	Sustainable Food Systems	
GEO 394	Topics: Geography	
GEO 418	Geographic Information Systems	
GLY 120	This Dangerous Earth	
GLY 240	Natural Resources, Energy and the Environment	
HIS 465	Nature and Development in Latin America	
PHI 302	Research Ethics	
PHI 360	Topics: Environmental Philosophy	
SOC 340	Population	
SOC 355	Sociology of the Environment	
TOTAL CREDITS		22

European Studies

Location: Founders Hall 436

Telephone: 859-572-1961 **Fax:** 859-572-6184

Email Address: psc@nku.edu

Web Address:

<http://artscience.nku.edu/departments/psccj/programs/internationalstudies.html>

Program Coordinator: Shauna Reilly, Department of Political Science, Criminal Justice and Organizational Leadership

This minor enables students to develop an integrated understanding of the culture, ideology, identity, geography, history, religion, social relations, and economics of Europe. The minor requires 18 credit hours, including six hours of relevant language courses.

Requirements for Minor: European Studies		Credits
Select one course from the following:		
FRE 101	Elementary French I	3
GER 101	Elementary German I	
ITA 101	Elementary Italian I	
RUS 101	Elementary Russian I	
SPI 101	Elementary Spanish I	
Select one course from the following:		
FRE 102	Elementary French II	3
GER 102	Elementary German II	
ITA 102	Elementary Italian II	
RUS 102	Elementary Russian II	
SPI 102	Elementary Spanish II	
Select two courses from the following from two different disciplines:		
GEO 402	Geography of Europe	6
HIS 308	Modern Europe 1870-1920	
HIS 309	Modern Europe since 1920	
PSC 330	Politics of Europe	
Choose two courses from the following:		
ANT 370	Celtic Europe	
ANT 376	Irish Society Through Film	
FRE 311	French Cultural History	
FRE 320	Survey of French Literature	
FRE 322	French Drama*	
FRE 323	French Prose Fiction*	

FRE 330	Studies in French Language Cinema*	
FRE 340	Business French*	
FRE 480	Studies in French Culture*	
FRE 481	Studies in French Literature*	
GEO 402	Geography of Europe	
GER 310	Contemporary German Life	
GER 311	German Cultural History	
GER 320	Survey of German Literature	6
GER 322	German Drama	
GER 323	German Prose Fiction	
GER 330	Studies in German Language Cinema	
GER 340	Business German	
GER 480	Studies in German Culture	
GER 481	Studies in German Literature	
HIS 308	Modern Europe 1870-1920	
HIS 309	Modern Europe since 1920	
HIS 348	History of France 1804-1918	
HIS 349	History of France 1918-Present	
HIS 355	British History:1760 - present	
HIS 377	Modern Russia since 1855	
HIS 409	The French Revolution	
HIS 413	History of Nazi Germany	
HIS 414	The Holocaust	
HIS 486	History of Modern Ireland	
PSC 330	Politics of Europe	
SPI 310	Spanish Culture and Civilization	
SPI 320	Survey of Peninsular Spanish Literature	
SPI 322	Hispanic Drama*	
SPI 323	Hispanic Prose Fiction*	
SPI 330	Studies in Spanish Language Cinema*	
SPI 340	Business Spanish*	
SPI 480	Studies in Spanish and Spanish-American Culture*	
SPI 481	Studies in Spanish and Spanish-American Literature*	
TOTAL CREDITS		18

TOTAL CREDITS 18

*Check with the world languages and literatures department for applicability of this course to the European studies minor.

Additional language topics courses may fulfill the minor. Check with the world languages and literatures department for applicability of topics courses.

Evolutionary Studies

Location: Landrum Academic Center 217

Telephone: 859-572-5259 **Fax:** 859-572-6086

Email Address: wakefieldm2@nku.edu

Web Address:

<http://artscience.nku.edu/departments/psychology/undergraduate/evolutionarystudies.html>

Program Director: Monica Wakefield, Department of Sociology, Anthropology, and Philosophy

Other Faculty:

Denice Robertson, Department of Biological Sciences; Rudy Garns, Department of Sociology, Anthropology, and Philosophy; John Rockaway, Department of Physics and Geology; Sharyn Jones, Department of Sociology, Anthropology, and Philosophy

Minor in Evolutionary Studies

The minor in evolutionary studies is especially relevant for students seeking high-level integration of the natural sciences, behavioral sciences, and humanities using contemporary evolutionary theory as an

integrative concept; for students aspiring to teach evolution in the middle and secondary schools; and for students interested in cultivating an evolutionary view of human nature.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Minor: Evolutionary Studies		Credits
BIO 158	Biological Evolution	3
GLY 225	Prehistoric Life	3
PSY 301/ HNR 301	Evolutionary Psychology* <i>Prerequisite: PSY 100</i>	3
ANT 202/202L	Introduction to Physical Anthropology with Laboratory	4
PHI 348	Darwin and Philosophy	3
Select 6 credit hours from the following:		
ANT 110	Introduction to Archaeology	6
ANT 394	Topics: Anthropology*	
BIO 440	Animal Behavior	
BIO 440L	Animal Behavior Laboratory	
BIO 494	Topics: Biological Science*	
GLY 220	History of the 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
TOTAL CREDITS		25
*Special topics seminar course in anthropology, biological sciences, geology, philosophy, or psychology: course content may include directed readings, an independent or supervised empirical research experience, a conference presentation (such as a paper or poster presentation), or a term paper. Courses, projects, or research experiences used to satisfy the capstone requirement must be approved by the program director.		

Honors

Location: Honors House

Telephone: 859-572-5400 **Fax:** 859-572-6091

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

Email Address: honors.nku.edu

Interim Director: Belle Zembrodt

Other Key Personnel:

Advisor: David Kime

Recruitment and Events Coordinator: Stephanie Churchill

Administrative Specialist: Lauren McClain

Full-Time Faculty: Ali Godel, Kristen Hornsby, April Callis Belle Zembrodt

Honors Minor

Although Honors counts as a minor in graduation requirements, the honors program is much more than a minor. It is a program of distinction. Students who complete the program earn the designation of University Honors Scholar on their diplomas and transcripts. To complete the honors program, students must complete 21 credit hours of honors coursework. Six of the 21 credit hours will be fulfilled by completing the capstone project at the end of the honors experience. The additional 15 hours are fulfilled by coursework.

Students must apply to the Honors Program to be accepted. All first-year honors students must take "HNR 101: Honors First-Year Seminar." Students coming into the program as continuing NKU students or as transfer students are not required to take HNR 101.

Other courses include the 300-level honors seminars and honors sections of general education courses. Up to six hours of honors sections of general education courses may be counted toward the minor.

More information is available about the honors program in the section of the catalog dealing with academic program opportunities.

International Studies

Location: Founders Hall 436

Telephone: 859-572-1961 **Fax:** 859-572-6184

Email Address: psc@nku.edu

Web Address:

<http://artscience.nku.edu/departments/psccj/programs/internationalstudies.html>

Program Coordinator: Shauna Reilly, Department of Political Science, Criminal Justice, and Organizational Leadership

Minor in International Studies

An international studies minor works well with a variety of degrees. With the global marketplace, there is more call for individuals with knowledge of the world. This minor benefits those who plan careers in international business, law, journalism, government, politics, and foreign service. All lend themselves to the use of this minor.

A minor in international studies consists of 18 credit hours, including a 6-credit-hour core, 6 credit hours of secondary requirements (from two different disciplines) and 6 credit hours of elective courses chosen in consultation with the program coordinator.

Requirements for Minor: International Studies		Credits
PSC 103	International Politics	3
PSC 470	Globalization	3
Select two of the following courses from two different disciplines:		
ANT 100	Introduction to Cultural Anthropology	6
HIS 111	Global Viewpoints in History	
ECO 200	Principles of Macroeconomics	
GEO 101	World Regional Geography	
PSC 102	Comparative Politics	
SOC 101	Global Inequalities	
Select two 300-level or above electives for any category of the major's elective courses		
TOTAL CREDITS		18

Latin American and Caribbean Studies

Location: Founders Hall 436

Telephone: 859-572-1961 **Fax:** 859-572-6184

Email Address: psc@nku.edu

Web Address:

<http://artscience.nku.edu/departments/psccj/programs/interdisciplinaryminors/latinamericancaribbean.html>

Program Coordinator: Shauna Reilly, Department of Political Science and Criminal Justice

Minor in Latin American and Caribbean Studies

This minor enables students to develop an integrated understanding of the history, culture, and politics of Latin America and the Caribbean area. The minor requires 18 credit hours, including Spanish 101 and 102, two courses from different disciplines, and two electives. All students pursuing this minor should acquire some competence in Spanish.

Requirements for Minor: Latin American and Caribbean Studies		Credits
SPI 101	Elementary Spanish I	3
SPI 102	Elementary Spanish II	3
Select two courses from the following:		
ANT 245	Peoples of Latin America and the Caribbean	6
HIS 326	Modern Latin American History	
PSC 335	Politics of Latin America	
GEO 406	Geography of Latin America	
Select two courses from the following:		
ANT 360	Mesoamerican Indians	6
ANT 245	Peoples of Latin America and the Caribbean	
FRE 322	French Drama*	
FRE 323	French Prose Fiction*	
FRE 330	Studies in French Language Cinema*	
FRE 340	Business French*	
FRE 480	Studies in French Culture*	
FRE 481	Studies in French Literature*	
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	
HIS 465	Nature and Development in Latin America	
PSC 335	Politics of Latin America	
SPI 311	Spanish-American Culture and Civilization	
SPI 321	Survey of Spanish-American Literature	
SPI 322	Hispanic Drama*	
SPI 323	Hispanic Prose Fiction*	
SPI 330	Studies in Spanish Language Cinema*	
SPI 340	Business Spanish*	
SPI 480	Studies in Spanish and Spanish-American Culture*	
SPI 481	Studies in Spanish and Spanish-American Literature*	
TOTAL CREDITS		18

* Check with the world languages and literature department for applicability of this course to the Latin American and Caribbean Studies minor.

NOTE: Additional language topic courses may fulfill this minor. Check with the world languages and literatures department for applicability of topics courses.

Medieval and Renaissance Studies

Location: Landrum Academic Center 415

Telephone: 859-572-5461 **Fax:** 859-572-6088

Email Address: hisgeo1@nku.edu

Web Address:

<http://artscience.nku.edu/departments/hisgeo/programs/medieval-renaissance.html>

Program Coordinator: William Landon, Department of History and Geography

Minor in Medieval and Renaissance Studies

The minor in medieval and Renaissance studies is historical in perspective with an emphasis on cultures and civilizations of Western Europe from the fifth to the 16th centuries. The minor is interdisciplinary in scope, with courses from art, English, history, language, music, philosophy, and political science included in its curriculum. The medieval and Renaissance studies minor introduces students to methods, materials, and texts reflecting the human dimension of medieval cultures and the living heritage of medieval and Renaissance cultures in modern civilizations.

The minor in medieval and Renaissance studies requires completion of 21 credit hours in designated courses. "HIS 303: Europe in the Middle Ages" and "HIS 304: Renaissance Europe" are required, and the remaining 15 credit hours must be selected from three disciplines and must include at least one semester of the study of a foreign language included in the list below.

Requirements for Minor: Medieval and Renaissance Studies		Credits
HIS 303	Europe in the Middle Ages	3
HIS 304	Renaissance Europe	3
Select 15 credit hours from the following (must include at least 3 credit hours in a foreign language):		
ANT 370	Celtic Europe	15
ANT 374	Celtic and Viking Archaeology	
ARTH 101	Survey of Western Art I	
ARTH 102	Survey of Western Art II	
ARTH 351	Medieval Art	
ENG 308	Shakespeare I	
ENG 309	Shakespeare II	
ENG 401	Chaucer	
ENG 402	Middle English Literature	
ENG 403	Old English	
FRE 101	Elementary French I	
FRE 102	Elementary French II	
FRE 201	Intermediate French I	
FRE 202	Intermediate French II	
HIS 303	Europe in the Middle Ages	
HIS 353	British History to 1485	
HIS 442	History through Biography (if medieval or Renaissance topic)	
ITA 101	Elementary Italian I	
ITA 102	Elementary Italian II	
ITA 201	Intermediate Italian I	
ITA 202	Intermediate Italian II	
LAT 101	Elementary Latin I	
LAT 102	Elementary Latin II	
LAT 201	Intermediate Latin I	
LAT 202	Intermediate Latin II	
LAT 280	Studies in Latin Language and Literature	
MUS 230	History of Music I: Antiquity through Early Baroque	
PHI 181	Philosophers, Cultures, and Creativity	
PHI 285	History of Modern and Contemporary Philosophy	
PSC 370	Ancient Political Theory	
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://artscience.nku.edu/departments/psccj/programs/interdisciplinary_minors/mideastnafrican.html

Program Coordinator: Shauna Reilly, Department of Political Science, Criminal Justice and Organizational Leadership

Minor in Middle Eastern and North African Studies

The minor in Middle Eastern and North African studies offers students the opportunity to gain knowledge of various aspects of the peoples of the Middle East and North Africa. The program, selected from several disciplines, provides a broad appreciation of the societies, literatures,

cultures, religions, and history of the Middle East and North Africa and their significance for the modern world. To complete the minor, students must earn a total of 18 hours selected from the courses listed below. Applicable course prerequisites must be met.

Requirements for Minor: Middle Eastern and North African Studies		Credits
Required language credits:		
ARI 101	Elementary Arabic I	3
ARI 102	Elementary Arabic II	3
Select two courses from the following:		
GEO 412	Geography of South Asia and the Middle East	6
HIS 329	History of the Middle East and North Africa	
PSC 380	Politics of the Middle East	
Select two courses from the following:		
ENG 313	Middle Eastern Literature	6
ENG 315	The Bible as Literature	
GEO 412	Geography of South Asia and the Middle East	
HIS 329	History of the Middle East and North Africa	
PSC 380	Politics of the Middle East	
REL 306	Introduction to Judaism	
REL 305	Islam	
TOTAL CREDITS		18

Teaching Certificate in Arabic

Students seeking teaching certification in Arabic should contact the chair of world languages and literatures department.

If a particular course has a prerequisite that is not listed as part of the major requirements, then the prerequisite is given in italics below the course for which it is a prerequisite. These prerequisites are not included in the program totals in the table below, but they must be completed IN ADDITION TO other program requirements.

Requirements for Certificate: Arabic		Credits
ARI 201	Intermediate Arabic I <i>Prerequisites: ARI 101 and ARI 102</i>	3
ARI 202	Intermediate Arabic II	3
ARI 350	Methods of Teaching Arabic	3
ARI 380	Topics in Advanced Arabic including one linguistics course	15
Select two courses from the following:		
ENG 313	Middle Eastern Literature	6
HIS 329	History of the Middle East and North Africa	
PSC 394	Topics: Politics (if international focus)	
REL 305	Islam	
TOTAL CREDITS		30

Native American Studies

Location: Landrum Academic Center 217C

Telephone: 859-572-5259 **Fax:** 859-572-6086

Email Address: neelys@nku.edu

Web Address:

<http://artsience.nku.edu/departments/sapdept/anthropology/undergraduate-programs/native-american-studies-minor.html>

Program Director: Charlotte Neely, Department of Sociology, Anthropology, and Philosophy

Minor in Native American Studies

Native American studies has as its focus the prehistory, history, contemporary situation, and way of life of Native Americans (American Indians). For more than 95 percent of the time humans have lived in the Americas, the only people here have been Native Americans. To understand the history and cultures of the Americas, one must start with Native Americans. Far from disappearing either physically or culturally, Native Americans today are increasing in numbers and represent hundreds of vibrant and unique ways of life. To learn about Native Americans is to explore yet another avenue of what it means to be human.

The commonwealth of Kentucky is rich in Native American culture. NKU is located in the heart of the prehistoric Ohio Valley mound-builder cultures of Adena, Hopewell, and Fort Ancient, on lands claimed by both the historic Shawnee and Cherokee. The university is only about 50 miles from the soon-to-be-built Kentucky Center for Native American Arts and Culture and is recognized by the Kentucky Native American Heritage Commission. NKU's Native American studies program is the only such program in Kentucky.

There are two Native American student organizations at NKU: First Nations Student Organization and Kiksuya. Native American studies minors are encouraged to participate in both. Each year NKU anthropology faculty present the Outstanding Student in Native American Studies Award. NKU provides students with opportunities to do Native American studies outside the classroom and develop résumé-worthy skills important in the job quest. Through Kiksuya, every spring NKU students can go to a reservation in the Dakotas. Every summer students also have the opportunity to participate in an archaeological dig at a prehistoric Native American village site in Northern Kentucky. Students also have opportunities to work on museum exhibits.

Other appropriate courses (with permission, if Native American emphasis)

Requirements for Minor: Native American Studies		Credits	
SOC 345	Native American Social Issues	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 (courses chosen must be in at least two different disciplines):			
SOC 301	World Patterns of Race Ethnicity	9	
ANT 318	Prehistoric Ecology		
ANT 331	Women in Prehistory		
ANT 352	Archaeology of Mesoamerica		
ANT 358	Art and Culture		
ANT 360	Mesoamerican Indians		
ENG 306	Multicultural American Literature		
HIS 557	History of Indians of the United States		
ANT 315	Archaeological Excavation Methods		
SOC 394	Topics: Sociology (with permission, if Native American emphasis)		
ANT 307	Museum Methods (with permission, if Native American emphasis)		
ANT 394	Topics: Anthropology (with permission, if Native American emphasis)		
HIS 394	Special Topics in History (with permission, if Native American emphasis)		
REL 394	Topics: Religious Studies (with permission, if Native American emphasis)		
Other appropriate courses (with permission, if Native American emphasis)			
TOTAL CREDITS			21

Neuroscience

Location: Mathematics-Education-Psychology Center 301

Telephone: 859-572-5310 **Fax:** 859-572-6085

Email Address: bardgettm@nku.edu

Web Address:

<http://artsience.nku.edu/departments/psychology/undergraduate/neuroscience.html>

Program Director: Mark Bardgett, Department of Psychological Science

Other Faculty:

Christine Curran, Department of Biological Sciences, Rudy Garns, Department of Sociology, Anthropology, and Philosophy; Kristi Haik, Department of Biological Sciences; Kevin Kirby, Department of Computer Science; Cecile Marczynski, Department of Psychological Science

Minor in Neuroscience

Neuroscience represents an emerging integrative scientific discipline that seeks to: (1) better understand nervous system structure and function, and (2) use this knowledge to better understand mental processing and behavior. In addressing these goals, neuroscience borrows from an array of disciplines including physics, chemistry, biology, psychology, computer science, philosophy, anthropology, mathematics, pharmacology, and education. In turn, the knowledge gained through neuroscience research can advance the fields of medicine, biology, pharmacology, psychology, education, social work, forensics, marketing, and computer science, among others.

Students participating in the minor program will be introduced to a variety of perspectives on the field of neuroscience. These perspectives include neurobiology, evolution of mind/brain, theories of mind, behavioral neuroscience, psychopharmacology, cognitive science, computational neuroscience, animal behavior, linguistics, and perception. The neuroscience minor may be an attractive addition to a major in natural science, mathematics, computer science, social science, or humanities, and it should enable students to address issues and dilemmas in their major field from a neuroscience perspective. It may also better prepare students who are considering graduate study in fields impacted by neuroscience (such as medicine, psychology, education, chemistry, biology, pharmacology, computer science, philosophy, and social work). In choosing electives, students must choose two from outside of their major. Psychology majors can apply only six hours of minor coursework to their major. Students must take one core elective course – it is strongly recommended that students consider using the other core elective courses as "general" electives. Electives may also include special topics courses, supervised research, independent study, or honors projects that are taken for credit, as long as the work focuses on some aspect of neuroscience. Students wishing to apply these courses to their minor requirements must receive approval from the director of the neuroscience program. Students must earn a grade of C or better in all courses applied toward certification of the minor.

Requirements for Minor: Neuroscience		Credits
BIO 208 and BIO 208L	Human Anatomy and Physiology I and Human Anatomy and Physiology I Laboratory --OR-- Mammalian Anatomy and Physiology I and Mammalian Anatomy and Physiology I Laboratory	4
NEU 493	Cognitive Neuroscience Seminar	1
PHI 345	Philosophy of Mind --OR--	3
PHI 340	PHI 340 Neuroethics	
PSY 311	Biopsychology	
Select one course from the following:		
BIO 402 and BIO 402L	Advanced Neurobiology and Advanced Neurobiology Laboratory	4
BIO 440 and BIO 440L	Animal Behavior Animal Behavior Laboratory	4
PSY 338	Cognitive Processes	3
PSY 360	Psychopharmacology	3
Select three courses totaling 9 hours or more from the following:		
ANT 275	Language and Culture	
BIO 158	Biological Evolution	

BIO 209 and BIO 209L	Human Anatomy and Physiology II and Human Anatomy and Physiology Laboratory	
BIO 305 and BIO 305L	Developmental Biology and Developmental Biology Laboratory	
BIO 349 and BIO 349L	Genetics and Genetics Laboratory	
BIO 360	Advanced Biology of the Cell	
BIO 400 and BIO 400L	Advanced Molecular Biology and Advanced Molecular Biology Laboratory	
BIO 402 and BIO 402L	Advanced Neurobiology and Advanced Neurobiology Laboratory	
BIO 407 and BIO 407L	Ornithology and Ornithology Laboratory	
BIO 426 and BIO 426L	Mammalian Anatomy and Physiology II and Mammalian Anatomy and Physiology II Laboratory	9
BIO 440 and BIO 440L	Animal Behavior and Animal Behavior Laboratory	
BIO 467	Endocrinology	
CSC 325	Introduction to Neural Networks and Artificial Intelligence	
ENG 381	Introduction to Linguistics	
PHI 265	Logic	
PHI 306	Philosophy and Science	
PHI 315	Knowledge and Reality	
PHI 340	Neuroethics	
PHI 345	Philosophy of Mind	
PSY 309	Psychology of Perception	
PSY 309L	Psychology of Perception Laboratory	
PSY 311L	Biopsychology Laboratory	
PSY 333	Abnormal Psychology	
PSY 337	Animal Learning	
PSY 338	Cognitive Processes	
PSY 338L	Cognitive Processes Laboratory	
PSY 360	Psychopharmacology	
PSY 465	Health Psychology	
PSY 465L	Health Psychology Laboratory	
PSY 494	Topics: Drug Policy	
TOTAL CREDITS		23

Popular Culture Studies

Location: Griffin Hall 400

Telephone: 859-572-5291 **Fax:** 859-572-5435

Email Address: communication@nku.edu

Web Address:

<http://informatics.nku.edu/departments/communication/programs/pop.html>

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
	-- OR --	
HIS 380	History and Film	3
	--OR--	
POP 369	Folklore and Popular Culture	3
POP 205	Introduction to Pop Culture	
POP 499	Independent Study	3
Select three courses from the following. The courses must be taken from at least two different categories and must have at least two different course designators. At least 6 credit hours must be taken at the 300 level or above.		
American Culture and Society		
EDU 316	Racism and Sexism in Educational Institutions	
EMB 105	Race, Gender and the Mass Media	
EMB 311	History of Broadcasting	
	-- OR --	
JOU 421	Mass Communication History	
ENG 353	Contemporary American Novel	
HIS 314	Rise of the 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 Crime	
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 553	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 Afro-American Music	
PSY 201	Cross-Cultural Psychology	
SOC 300	Race and Ethnic Relations	
SPI 311	Spanish-American Culture and Civilization	
WGS 310	Women, Wages, and Work	
PHI 311	Philosophy of Woman	
WGS 388	African American Women's History and Culture	
International Perspective		
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	Culture and 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 565	The Vietnam War	
MUS 106	Music of World Cultures	
POP 345	Japanese Popular Culture	
SOC 301	World Patterns of Race 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 Visual Communication Design	
ARTO 210	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.	
MUS 108	History of Rock and Roll	
MUS 109	History of American Popular Music	
MUS 110	Appreciation of Jazz	
TAR 455	Musical Theatre 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	
SOC 303	-- OR --	
	Social Psychology	9
PSY 345	Human Factors 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.

Religious Studies

Location: Landrum Academic Center 217C
Telephone: 859-572-5259 **Fax:** 859-572-6086
Email Address: religiousstudies@nku.edu
Web Address: http://religious-studies.nku.edu
Director: Terry Pence, Department of Sociology, Anthropology, and Philosophy
Other Key Personnel:
 Department Coordinator: Mindy Berry

Minor in Religious Studies

NKU's interdisciplinary religious studies program offers a 21-credit-hour minor designed for students who are especially interested in religious studies or who wish for career purposes to add to their general education background.

Religious studies is the scholarly examination of the widespread and diverse phenomena of human religious experiences, the expression of these experiences in systems of belief and in institutions, and their interaction with culture and society. Religion embodies some of humanity's most profound and enduring attempts to answer perennial questions about the nature of ultimate reality and about human nature and destiny. An important dimension of religious studies at NKU is its incorporation of cognate courses from other disciplines, including philosophy, history, geography, sociology, psychology, literature, 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
Religious Traditions and Sacred Texts – select 6 credit hours from the following:		
REL 200	World Religions and Cultures	6
REL 302	Survey of the Hebrew Bible (Old Testament)	
REL 303	Survey of New Testament	
REL 305	Islam	
REL 306	Introduction to Judaism	
REL 307	Survey of Christianity	
PHI 304	Zen	
PHI 312	Eastern Philosophy	
Philosophical, Ethical, and Theological Perspectives – select 3 credit hours from the following:		
REL 330	Contemporary Religious Thought	3
REL 350	World Religions and Ethics	
REL 360	Human Religious Experience	
REL 370	Religion and Science	
PHI 350	Philosophy of Religion	
Historical, Literary, and Scientific Perspectives – select 3 credit hours from the following:		
REL 301	Ancient Religions	
REL 320	Religion in America	
ANT 320	Religion and Culture	
ENG 215	Greek and Roman Mythology	

ENG 315	The Bible as Literature	3
ENG 324	Holocaust Literature	
HIS 300	Ancient Near East and Greece to the Macedonian Conquest	
HIS 301	The Hellenistic World and Rome to the Death of Constantine	9
HIS 303	Europe in the Middle Ages	
HIS 305	Reformation Europe	
HIS 330	Jewish History	
HIS 414	The Holocaust	
SOC 430	Sociology of Religion	

Select 9 additional credit hours from among all religious studies courses except those previously chosen to count for a category requirement. 9

TOTAL CREDITS 21

At least 20 percent of the total required hours must be taken at NKU. Topics courses (with numbers ending with -94) in disciplines such as REL, PHI, ANT, HIS, ENG, PSY, SOC with topics bearing upon religious studies may also count toward the minor. Check with your advisor. 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://coehs.nku.edu/programs/nkusocialwork/bsw/minor.html>
<http://coehs.nku.edu/programs/nkusocialwork/bsw/minor.html>
Program Director: Holly Riffe, Department of Counseling, Social Work, and Leadership
Advisor: Deb Henry

Minor in Social Justice Studies

The interdisciplinary social justice minor is concerned with the promotion of a just society with an emphasis on human rights. The goal of social justice is to establish a society in which all people are guaranteed certain and basic human and legal rights and have access to opportunities and resources to achieve valued economic, political, and social goals.

Requirements for Minor: Social Justice Studies		Credits
SWK 106	Introduction to Social Justice	3
ANT 201	World Cultures	3
-- OR --		
HIS 557	History of Indians in the United States	3
ANT 330	Women, Gender, and Culture	
-- OR --		
WGS 250	Introduction to Gender Studies	3
SOC 300	Race and Ethnic Relations	
-- OR --		3
BLS 100	Introduction to Black Studies	
SWK 594	Topics: Issues in Social Welfare (Compassion, Empathy and Forgiveness in Social Justice)	3
Select two courses from the following:		
ANT 100	Introduction to Cultural Anthropology	
ANT 201	World Cultures	
ANT 231	Modern American Indians	
ANT 301/ SOC 301	World Patterns of Race Ethnicity	
ANT 325	Applied Anthropology	
ANT 330	Women, Gender, and Culture	

ANT 345	Environmental Anthropology
ANT 372	Peasant Societies
ANT 375	Anthropology of Aging
ANT 386	Economy, Wealth, and Culture
GEO 100	Global Viewpoints on Geography and the Human Landscape
GEO 340	Sustainable Food Systems
HIS 557	History of Indians in the United States
HIS 551	History of Appalachia Since 1877
JUS 231	Race, Gender, and Crime
PHI 323	Peace and War
REL 350	Religion and Ethics
SOC 300	Race and Ethnic Relations
SOC 301	World Patterns of Race Ethnicity
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	

Sub-Saharan African Studies Minor

Location: Founders Hall 436

Telephone: 859-572-1961 **Fax:** 859-572-6184

Email Address: psc@nku.edu

Web Address:

http://artscience.nku.edu/departments/pscci/programs/interdisciplinary_minors.html

Program Coordinator: Shauna Reilly, Department of Political Science, Criminal Justice and Organizational Leadership

Minor in Sub-Saharan African Studies

This minor enables students to develop an integrated understanding of culture, ideology, identity, geography, history, religion, social relations, and economics of sub-Saharan Africa. The minor requires 15 credit hours.

Requirements for Minor: Sub-Saharan African Studies	
Select five courses from the following:	
ANT 309	Peoples of Africa
GEO 403	Geography of Africa
HIS 335	History of Ancient Africa
HIS 336	History of Modern Africa
PHI 324	Africana Philosophy
PSC 366	Politics of Africa
Total Credits 15	

Women's and Gender Studies

Location: Landrum Academic Center 415

Telephone: 859-572-5461 **Fax:** 859-572-6088

Email Address: hisgeo1@nku.edu

Web Address:

<http://artscience.nku.edu/departments/hisgeo/wgstudies.html>

Program Director: Debra Meyers, Department of History and Geography

Other Key Personnel:

Department Coordinator: Janice Rachford
Secretary: Lou Stuntz

Minor in Women's and Gender Studies

Women's and gender studies explores the intersections of gender, race, and other categories of difference via a feminist lens. WGS focuses on

the construction and representation of identities, behaviors, and social relations within culturally specific institutions and within a global context. WGS courses stress the understanding of self and others and the importance of social justice, activism, and community engagement. This minor requires a total of 18 credit hours, at least 12 of which must be 300-level or above. Students must achieve a C or better in all courses. This minor may be completed online as well as in the traditional classroom setting.

Required courses include WGS 150, WGS 310, and the capstone experience, WGS 594. Students may complete the remaining credit hours with WGS 300-level or above courses or director-approved courses from other disciplines.

Focus in Women's and Gender Studies

The women's and gender studies focus requires a total of 12 credit hours (four courses) of coursework at the 300 level or above. Students must achieve a C or better in all courses that apply to the focus.

Interdisciplinary Certificate

Geographic Information Systems

Location: Griffin Hall 400

Telephone: 859-572-6930 **Fax:** 859-572-5398

Email Address: gis1@nku.edu

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

Program Director: Hongmei Wang, Department of Computer Science

Certificate in Geographic Information Systems

A geographic information system is a computer-based system for capturing, storing, querying, analyzing, and displaying geographically referenced data. It helps manage descriptions of locations and characteristics of spatial features, such as roads or land parcels. GIS has been used for natural resource management, crime analysis, emergency management, and transportation applications. New applications have resulted from the integration of GIS with other new technologies, such as global-positioning systems and wireless networks.

The NKU undergraduate certificate program in GIS is an interdisciplinary program offered through the departments of history and geography; computer science; and political science, criminal justice, and organizational leadership. It is designed for individuals whose career paths will require them to regularly use GIS technology in their work.

Requirements for Certificate: Geographic Information Systems		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	
Select two courses from the following:		
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		

COURSE DESCRIPTIONS

Course Description Notes

Northern Kentucky University has established abbreviations for its various disciplines. These abbreviations, which are printed next to the name of each discipline in the following course descriptions, should be used in preparing course schedules and at other times when referring to specific courses.

Following course titles in parenthesis is the number of semester hours of credit in the course. Listed below that are the number of classroom and lab/studio hours in the course.

Many courses satisfy NKU general education requirements under guidelines of the Kentucky Transfer Policy. These course descriptions carry a two-letter designation relating to the NKU

general education categories beneath the course description. These designations are:

- OC – Oral Communication
- WC – Written Communication
- AH – Arts and Humanities
- QR – Quantitative Reasoning
- NS – Natural Sciences
- SB – Social and Behavioral Sciences

Please refer to the General Education section of this catalog for complete information.

The university reserves the right to withdraw or modify courses of instruction at any time.

Accounting Courses (ACC)

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

Hours: 3 classroom + 0 lab/studio

Prerequisites: sophomore standing; completion of one college level mathematics course; completion of computer competence requirement as determined by student's major, or completion of INF 101.

Taught: Fall, spring, and summer

Preparation of primary financial statements: income statement, balance sheet, and statement of funds.

ACC 201 Principles of Accounting II-Managerial (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ACC 200 and sophomore standing.

Taught: Fall, spring, and summer

Accounting concepts for internal use of management in planning and control of operations.

ACC 202 Accounting Laboratory (1 credit)

Hours: 1 classroom + 0 lab/studio

Prerequisites: sophomore standing and completion of a college-level mathematics course and ACC 200 with a C or better.

Taught: Fall and spring

Practice of technical accounting skills including recordkeeping and financial statement preparation; introduction to the profession.

ACC 300 Intermediate Accounting I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ACC 200, ACC 201, and ACC 202 with grades of C or better, junior standing.

Taught: Fall and spring

Financial accounting theory and practice in determination of income and valuation of assets and equities for external reporting; official pronouncements on generally accepted accounting principles; alternatives to these prin-

ciples; accounting cycle, financial assets (cash, marketable securities, and receivables, inventories, and prepayments. Assessment test is given.

ACC 301 Intermediate Accounting II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: junior standing; ACC 300 with a C.

Taught: Fall and spring

Financial accounting theory and practice in determination of income and valuation of assets and equities for external reporting; official 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 308 Financial Statement Analysis (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ACC 200 and ACC 201.

Taught: Fall and spring

This course is designed to prepare students to analyze, interpret and use financial statements effectively. This will be accomplished using four steps: (1) analyzing the industry and economic environment in which the firm operates; (2) analyzing recent financial and market performance of the firm using financial statement statements and stock market information; (3) synthesizing this material in a coherent manner; and (4) writing and presenting a report on the financial condition of a company and its prospects to classmates and faculty. Cannot be taken for credit by students with ACC 300 credit.

ACC 310 Accounting Information Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in ACC 200, ACC 201, ACC 202; IFS 105; MAT 112; junior standing.

Taught: Fall and spring

Study of complex accounting systems including the steps of the accounting cycle from documents through the preparation of financial statements within the revenue, expenditure, conversion, and financial reporting cycles, the importance of internal controls and the impact of technology on the accounting system. The nature of accounting and business ethics as related to collecting, reporting, and auditing accounting data. Open only to students certified as majoring in business or by consent of instructor.

ACC 320 Tax Planning (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior standing; declared major in any bachelor's program; ACC 200, 201 and ACC 300 with grade of C or better and BUS 230.

Taught: Fall, spring, and summer

Impact of income tax on business entities, including corporations, S corporations, partnerships, limited liability companies and sole proprietors; gross income deductions, accounting periods, accounting methods and property transactions.

ACC 330 Fraud Examination (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ACC 301 and ACC 310 with a grade of C or better.

Taught: Summer only

The principles and methodology of fraud detection and deterrence. The course includes such topics as skimming, cash larceny, check tampering, register disbursement schemes, billing schemes, payroll and expense reimbursement schemes, non-cash misappropriation, corruption, accounting principles and

fraud, fraudulent financial statements, and interviewing witnesses.

ACC 350 Management Cost Accounting I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior standing, STA 205 or STA 212, C or better in ACC 200, ACC 201 and ACC 202.

Taught: Fall and spring

Cost accounting concepts, techniques, and procedures relating to financial reporting; decision-making and responsibility accounting to help management plan and control operations.

ACC 394 Topics: Financial Accounting (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: junior standing; ACC 200 and ACC 201 with grades of C or better.

Taught: Variable, check with department

Specialized topics of faculty and student interest. Topics vary and prerequisites may be specified depending upon topics. May be taken twice for elective credit if topics differ.

ACC 396 Internship: Accounting (1-3 credits)

Hours: 0 classroom + 3 lab/studio

Prerequisites: completion of ACC 200 and ACC 201 with grades of C or better.

Taught: Fall, spring, and summer

Supervised work experience related to accounting and coordinated by employer in conjunction with a member of accounting faculty. Repeatable for a maximum of 12 semester hours. Graded pass/fail.

ACC 400 Auditing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ACC 301, ACC 310 and ACC 350 with grades of C or better; junior standing.

Taught: Fall and spring

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

ACC 420 Advanced Tax Planning (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: junior standing; certified major in business; ACC 320 with grade of C or better.

Taught: Variable, check with department

Federal tax consequences of corporate redemptions, liquidations, reorganizations, consolidated tax returns; partnership distributions and terminations; multi jurisdictional considerations, international and multistate taxation; individual tax planning, deferred compensation,

retirement planning, estate and gift taxation, succession planning.

ACC 430 Accounting for Non-Profit Institutions (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ACC 301 with a C or better; junior standing and certified major in business.

Taught: Variable, check with department

Problems of control of funds and other assets; accounting classifications and relationships; planning, performance measurement, reporting, and auditing from the viewpoint of the non-profit (including governmental organization). Open only to students certified as majoring in business or by consent of instructor.

ACC 450 Management Cost Accounting II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ACC 310 and ACC 350 with grades of C or better; certified major in business.

Taught: Variable, check with department

Continuation of ACC 350. Application of quantitative techniques (e.g., statistical and O.R. models) to managerial problems; behavioral implications of budgetary control systems. Open only to students certified as majoring in business or by consent of instructor.

ACC 499 Independent Study: Accounting (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: senior standing and consent of instructor.

Taught: Variable, check with department

Independent project or intensive study/research with faculty guidance. Open only to students certified as majoring in business or by consent of instructor.

ACC 500 Auditing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ACC 600.

Taught: Fall and spring

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

ACC 520 Tax Planning (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to the MACC program, ACC 200 and ACC 201, or permission of MACC director.

Taught: Fall, spring, and summer

Impact of income tax on business entities, including corporations, S corporations, partnerships, limited liability companies and sole proprietors; gross income deductions, ac-

counting periods, accounting methods and property transactions.

Anthropology Courses (ANT)

ANT 100 Introduction to Cultural Anthropology - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

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

General education credit: Individual and Society, General education credit: Global Viewpoints

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

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

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

General education credit: Individual and Society, General education credit: Global Viewpoints

ANT 110 Introduction to Archaeology - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Change and development of prehistoric cultures from 3 million B.C. to early civilizations; selected Old World and New World cultures. Basic archaeological methods.

General education credit: Individual and Society

ANT 114 Great Archaeological Sites - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Summer only

Great archaeological sites and discoveries around the world and their significance to global heritage.

General education credit: Global Viewpoints

ANT 194 Topics: Anthropology (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

A newer development in any phase of anthropology. See Schedule of Classes for current topic.

ANT 201 World Cultures - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

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

General education credit: Cultural Pluralism

ANT 202 Introduction to Physical Anthropology (3 credits)*Hours: 3 classroom + 0 lab/studio**Co-requisites: ANT 202L.**Taught: Spring only*

Human genetics, primate behavior, humankind as biological organisms, relation of humans to culture, human evolution.

ANT 202L Introduction to Physical Anthropology Laboratory (1 credit)*Hours: 0 classroom + 2 lab/studio**Co-requisites: ANT 202.**Taught: Spring only*

Laboratory focusing on human genetics, primate behavior, and human osteology.

ANT 210 Introduction to Archaeological Methods and Theory (3 credits)*Hours: 3 classroom + 0 lab/studio**Taught: Fall only*

Methods of archaeological excavation and analysis; how archaeologists interpret excavated material and reconstruct prehistoric ways of life.

ANT 230 North American Indians - SB (3 credits)*Hours: 3 classroom + 0 lab/studio**Taught: Fall only*

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

*General education credit: Cultural Pluralism***ANT 231 Modern American Indians - SB (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Spring only*

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

*General education credit: Cultural Pluralism***ANT 245 Peoples of Latin America and the Caribbean - SB (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall only*

Contemporary cultures of Latin America and the Caribbean; problems of contact, colonization, acculturation, development of the area cultural tradition, and contemporary urbanization.

*General education credit: Cultural Pluralism***ANT 270 Native Australia and Oceania - SB (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Spring only*

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

*General education credit: Cultural Pluralism***ANT 275 Language and Culture (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: ANT 100.**Taught: Fall only*

Methods and case studies in anthropological linguistics; relationship between language and culture; language structure.

ANT 299 Independent Study in Anthropology (3 credits)*Hours: 0 classroom + 0 lab/studio**Taught: Spring only*

Specialized aspect or topic in anthropology chosen by student and appropriate faculty member for study.

ANT 301 World Patterns of Race and Ethnicity (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: SOC 100 or ANT 100.**Taught: Fall only*

Patterns of inter-group relations in multi-ethnic societies; similarities and differences between these and U.S. Same as SOC 301.

ANT 307 Museum Methods (3 credits)*Hours: 2 classroom + 2 lab/studio**Prerequisites: Sophomore standing or consent of instructor.**Taught: Spring only*

Actual work experience in museums, stressing an anthropological and research orientation; history of museums and their role in the development of anthropology.

ANT 308 Cultural Resource Management (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ANT 210.**Taught: Spring only-even yrs*

Practical, ethical, and legal issues surrounding the preservation of prehistoric and historic cultural resources on the local, state and national level. How to locate projects, make proposals and conduct CRM surveys; writing, submitting and reviewing reports; maintaining good community relations.

ANT 309 Peoples of Africa (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ANT 100 or ANT 201.**Taught: Spring only-odd yrs*

Survey and cross-cultural comparisons of the peoples of Sub-Saharan Africa. Emphasis on the impacts of colonialism, ecological adaptation, social and family life, as well as contemporary issues in Africa society.

ANT 311 Museums in Contemporary Society (3 credits)*Hours: 3 classroom + 0 lab/studio**Taught: Fall only-odd yrs*

A broad perspective on museum issues and practices. Readings, discussion, and written assignments will explore the historical, theo-

retical, and political dimensions of museums in contemporary societies. Students will evaluate virtual exhibits, study major museum and exhibit controversies, and examine debates on the politics of memory, context, and visual display.

ANT 312 Social Organization (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ANT 100.**Taught: Fall only*

Study of "primitive," peasant, and urban social organization; associations based on kinship, ethnic affiliation, age, and gender.

ANT 315 Archaeological Excavation Methods (3-4 credits)*Hours: 0 classroom + 6 lab/studio**Taught: Summer only*

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

ANT 318 Prehistoric Ecology (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 semester hours of anthropology or consent of instructor.**Taught: Fall only-odd yrs*

This course examines human adaptations to local environments from prehistory to early civilizations from an anthropological and archaeological perspective; examines environmental issues using case studies including hunter-gather societies and early farmers, to early civilizations and urbanization.

ANT 320 Religion and Culture (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ANT 100 or ANT 201.**Taught: Spring only-even yrs*

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

ANT 321 Medical Anthropology (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ANT 100 or ANT 201.**Taught: Spring only-even yrs*

Examines the meanings of illness, healing, and the body in cross-cultural and global terms. Topics include the social organization of medical care, varieties of explanations for disease, and political dimensions of health inequalities. Emphasis is laid on the application of anthropological findings to medical care.

ANT 325 Applied Anthropology (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 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 328 Contemporary Issues in Anthropology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior or senior standing or consent of instructor.

Taught: Fall only

Contemporary issues in anthropology through cross-cultural and four-field approaches.

ANT 330 Women, Gender, and Culture (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: junior standing.

Taught: Fall only

Examines the position of women in various cultures around the world: considers women's roles in local and world subsistence, economic, political, family, religious, and other institutions; examines the cultural construction of gender; seeks explanations for women's low status and women's struggle against loss of power.

ANT 331 Women in Prehistory (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of anthropology or consent of instructor.

Taught: Spring only-odd yrs

This course provides a broad prospective on issues, methodologies, and the current debates focusing on the study of women in prehistory. Roles of women in several early cultures and societies to early civilizations will be addressed; examples include people in the Paleolithic to women in Mesopotamia, Mesoamerica, Egypt, and China, among others.

ANT 336 Historical Archaeology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of anthropology or history.

Taught: Spring only-odd yrs

Provides an overview of Historical Archaeology as a developing and changing discipline, as practiced in the United States. Includes research on diverse minority groups, cemeteries, landscape, industrial, and urban archaeology, and studies the influences of European settlement on the Americas.

ANT 340 Ethnographic Methods and Research (3 credits)

Hours: 3 classroom + 0 lab/studio

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

Taught: Fall, winter, spring and summer

Introduction to principles of ethnographic research; readings; design and conduct of an

individual ethnographic field research project to be conducted and completed during the semester.

ANT 342 Quantitative Methods in Anthropology (3 credits)

Hours: 3 classroom + 2 lab/studio

Prerequisites: ANT 100.

Taught: Fall only-odd yrs

Theoretical foundations and methods used to conduct quantitative analysis in anthropology. This course includes a laboratory component where students practice methods learned in lecture. Topics include: research design, ethics, human subjects protection, research design sampling, GIS/Mapping, interviewing, questionnaires, and computer aided data analysis.

ANT 345 Environmental Anthropology (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only-even yrs

Sociocultural patterns of human environmental interaction, applied research on and policy solutions to environmental problems in the western and non-western worlds.

ANT 350 North American Archaeology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ANT 100 or ANT 110 or ANT 210.

Taught: Fall only-odd years

Prehistoric cultures and cultural developments in the United States and Canada from the first settlement to late prehistoric times; regional cultural developments.

ANT 352 Archaeology of Mesoamerica (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of anthropology.

Taught: Fall only-even years

Major pre-Columbian cultures of Mexico and Central America from earliest times until the Spanish conquest (Aztecs, Mayas, etc.); rise of towns, ceremonial centers, cities, states, and empires; development and elaboration of area and regional cultural traditions; selected problems in Mesoamerican prehistory.

ANT 355 Archaeology Laboratory Analysis (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: ANT 210.

Taught: Fall only-even years

Follow-up study of excavated materials; artifact description, measurement, and analysis by students.

ANT 358 Art and Culture (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 semester hours in anthropology or art.

Taught: Fall only-odd years

Functions of the arts in culture and relationship of art to other aspects of culture; arts of Pacific, African, native North American, and other cultures.

ANT 360 Mesoamerican Indians (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ANT 100 or ANT 201.

Taught: Spring only

Aboriginal cultures of Middle America; economic, social, political, and religious aspects of traditional and contemporary Aztec, Maya, and other Mesoamerican Indian cultures.

ANT 365 Ethnographic Field Methods (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours anthropology and consent of instructor.

Taught: Summer only

Cross-cultural field training in ethnographic field methods, qualitative data analysis, and ethnographic report-writing.

ANT 370 Celtic Europe (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ANT 100.

Taught: Fall only

Ethnographic examination of Celtic Europe. Brief look at Pre-Celtic Europe followed by appearance of Celts, earliest written descriptions of Keltoi, invasion of the insular Celts, linguistic differences between Celts. Description of Celtic culture from written and folkloristic sources, and modern ethnographies leads into Celtic influence in modern global economy.

ANT 371 Psychological Anthropology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ANT 100.

Taught: Spring only-even yrs

Insight is gained into nonwestern mental processes, how syncretistic religions can act as transcultural psychiatric therapy, and why western psychiatric diagnoses may not apply to people in other cultures. The student is to develop an understanding of the historical development of a theoretical orientation.

ANT 372 Peasant Societies (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ANT 100.

Taught: Variable, check with department

Peasants in the anthropological sense are poor subsistence cultivators. They are a major component of the global population and major contributors to global economics. The student will gain some insight into non western,

non-mechanized farming, and why modern industrial economics may not apply to peasant cultivators.

ANT 374 Celtic and Viking Archaeology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 semester hours of anthropology.

Taught: Spring only-odd yrs

An examination of the archaeological evidence of the Celtic people and Vikings of Europe from the time of the Celts migration to the British Isles to the early historic period.

ANT 375 Anthropology of Aging (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ANT 100.

Taught: Spring only-odd yrs

This is a course in aging. Aging begins at the moment of birth. It is addressed cross culturally and is examined theoretically, historically, ritually, and autobiographically. The student will learn the life history method first hand.

ANT 376 Irish Society Through Film (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Summer only

Insight into Irish society through the use of cinematic self images on film and television. Topics include Irish independence, mid-century rural images that parallel those of classic ethnographies, and how different modern Irish life is from American impressions of it. Does not count towards the anthropology major or minor.

ANT 377 Anthropology Through Sci Fi Film and Lit (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 semester hours of anthropology.

Taught: Summer only

Viewing, reading, and writing science fiction to explore major themes in anthropology (concept of culture, fieldwork and culture shock, nature of gender, culture relativism, social justice, etc.). Does not count toward the Anthropology major.

ANT 380 Origins of Civilization (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-even yrs

The six major early civilizations: Mesopotamia, Egypt, Indus Valley, China, Mesoamerica, and Peru; archaeological background of the development of early civilization; various theories on the development of civilization.

ANT 381 European Archaeology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing.

Taught: Spring only-even yrs

This course examines human settlement and adaptations in Europe from prehistory beginning in the Paleolithic to the Roman Conquest from an archaeological perspective; introducing students to the archaeological evidence for increasing social complexity and the development of complex societies within the region. We will explore the content and meaning of the development of complex societies in the region, and gain some new understanding of our own society and today's world as a result.

ANT 382 Visual Anthropology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing, or consent of instructor.

Taught: Fall only-even years

Provides an introduction to anthropological theories of visual communication and contemporary methods of evaluating, producing and displaying visual representations of culture.

ANT 385 Peoples of East and Southeast Asia (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of anthropology.

Taught: Fall only-even years

This course provides an anthropological overview of East and Southeast Asia from prehistory to the present; examines issues in this region including ethnicity and traditional ways of life, acculturation, conflict, impact of globalization and industrialization, and Asian Diasporas.

ANT 386 Economy, Wealth and Culture (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ANT 100 or ANT 201.

Taught: Fall only-even years

Explores cultural methods for producing, distributing, consuming, and exchanging goods and services. Emphasis is laid on moral and political debates over the accumulation and distribution of wealth.

ANT 392 Research: Archaeology (1-6 credits)

Hours: 1-6 classroom + 0 lab/studio

Prerequisites: ANT 210 or consent of instructor.

Taught: Variable, check with department

Student investigation of selected archaeological topics chosen in consultation with instructor.

ANT 394 Topics: Anthropology (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

A newer development in any phase of anthropology. See Schedule of Classes for current topic and prerequisites.

ANT 396 Museum Internship (3-6 credits)

Hours: 0 classroom + 3-6 lab/studio

Prerequisites: Junior or senior standing and consent of instructor.

Taught: Fall and spring

Supervised work experience in a museum setting.

ANT 401 Culture Theory (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ANT 312.

Taught: Spring only-odd yrs

Development of the discipline; major theoretical and anthropological contributions.

ANT 410 Archaeological Theory (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ANT 210.

Taught: Spring only-even yrs

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

ANT 460 Research Practicum Preparation (1 credit)

Hours: 1 classroom + 0 lab/studio

Prerequisites: SOC 322 or ANT 325.

Taught: Variable, check with department

Small-group seminar to introduce practicum skills: finding a placement assignment, writing a project proposal, making a contract, working with agency/business personnel, working in teams, scheduling projects, writing reports, and managing time. Same as SOC 460.

ANT 480 Anthropology Capstone (0 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Fall and spring

Assessment testing, resume and reflective essays. To be taken in the anthropology major's last semester.

ANT 491 Research Practicum II (3 credits)

Hours: 3-6 classroom + 0 lab/studio

Taught: Variable, check with department

Continuation of ANT 391. Same as SOC 491.

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

Hours: 1-6 classroom + 0 lab/studio

Prerequisites: junior or senior standing.

Taught: Variable, check with department

Specialized aspect or topic in anthropology chosen by student and appropriate faculty member for study.

ANT 515 Advanced Archaeological Excavation Methods (3 credits)

Hours: 0 classroom + 6 lab/studio

Taught: Summer only

Further experience in excavation, recording, mapping; excavation at an archaeological site. Summer. Three semester hours if taught during intersession; 4 if taught during 5-week session. PREREQ: ANT 215

ANT 565 Advanced Ethnographic Field Methods (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ANT 365.

Taught: Summer only

Cross-cultural field training in advanced ethnographic field methods, qualitative data analysis, and ethnographic report writing.

ANT 594 Topics: Anthropology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

A special topic in any area of anthropology. For graduate students and advanced undergraduates. Repeatable up to 12 semester hours when topics vary.

ANT 599 Independent Study (1-6 credits)

Hours: 1-6 classroom + 0 lab/studio

Taught: Variable, check with department

Specialized topic in anthropology chosen by student and appropriate faculty member for study. Repeatable up to 12 semester hours when topics vary.

Arabic Courses (ARI)**ARI 101 Elementary Arabic I - AH (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

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

General education credit: Culture and Creativity

ARI 102 Elementary Arabic II (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

Continuation of Arabic 101.

ARI 201 Intermediate Arabic I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ARI 102 or equivalent.

Taught: Variable, check with department

Review and extension of basic language skills learned in ARI 101; reading and discussion of cultural, linguistic, and literary subjects.

ARI 202 Intermediate Arabic II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ARI 201.

Taught: Variable, check with department

Continuation of grammar review and enhancement of language skills begun in ARI 201; consideration of cultural and literary subjects as well.

ARI 299 Independent Study: Arabic (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ARI 101 and ARI 102.

Taught: Fall and spring

Intermediate level practice in Arabic language.

ARI 350 Methods of Teaching Arabic (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ARI 202 or equivalent.

Taught: Variable, check with department

Theoretical and practical considerations of teaching Arabic in American schools; required of all students seeking teaching certification in Arabic.

ARI 380 Topics in Advanced Arabic (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ARI 202 or equivalent.

Taught: Variable, check with department

Advanced study of Arabic language, literature and culture. May be repeated for credit when topics vary.

ARI 520 Readings in Arabic (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ARI 380 or equivalent.

Taught: Variable, check with department

Various literary, linguistic, cultural, and pedagogical topics. May be repeated for credit when topic varies.

Art Courses (ART)**ART 100 Art Appreciation - AH (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Examination of the fundamental elements of fine art to increase one's artistic awareness: emphasis placed on developing skills in viewing, interpreting and understanding the use of art in cultural, historical and contemporary contexts. For students not majoring in visual arts.

General education credit: Culture and Creativity

ART 131 Drawing I (3 credits)

Hours: 3 classroom + 3 lab/studio

Co-requisites: ART 132. 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)

Hours: 3 classroom + 3 lab/studio

Co-requisites: ART 131. Enrollment restricted to ART majors only.

Taught: Fall, spring, and summer

Introduction to making art that is two-dimensional through an investigation of basic skills, concepts, terminology, and processes. This exploration of the visual elements and principles of design will provide the foundation for subsequent studio course work and the development of artistic practice.

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

Hours: 3 classroom + 3 lab/studio

Prerequisites: ART 131 and ART 132.

Co-requisites: ART 134.

Taught: Fall, spring, and summer

Investigation in to the elements, concepts, materials and processes associated with three-dimensional art making. This exploration of form and space will provide the foundation for subsequent studio course work and development of artistic practice.

ART 134 4D Studies and Color Theory (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ART 131 and ART 132.

Co-requisites: ART 133.

Taught: Fall, spring, and summer

Investigation in to the forms, qualities and characteristics of fourdimensional art and color theory. This exploration of time, perception and interactivity will provide the foundation for subsequent studio course work and the development of artistic practice.

ART 291W Advanced Writing-Writing/Artists - WC (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101, ART 131, ART 132, ART 133 and ART 134.

Taught: Fall and spring

Practice in a variety of expository forms common to fields in the visual arts including: exhibition review, formal analysis, artists statement, project proposal, grant writing, and development of strong research skills. Required for all Visual Arts majors. Open to non-art majors with consent of instructor provided they have completed ENG 101.

General education credit: Written Communication II

ART 299 Portfolio Review (0 credits)

Hours: 0 classroom + 1 lab/studio

Prerequisites: 21 credit hours in art.

Taught: Fall and spring

Critique forum to evaluate students' progress and skill level, to help students successfully complete the art degree program; mechanism for faculty to admit students to professional BFA programs. Can be repeated once for BFA admission only. Not required for BA students.

ART 300 Art of the Book (3 credits)

Hours: 3 classroom + 3 lab/studio

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

Taught: Variable, check with department

Concepts, structures, and techniques necessary to create artists' books through lectures, slides, and visits to collections; binding techniques, paper, and materials; photocopying, rubber stamping, and letterpress printing.

ART 317 Web Design for Artists (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ART 131, ART 132, ART 133, ART 134, and ARTO 210.

Taught: Variable, check with department

Create web sites for artists for the purpose of research, self-expression and self-promotion using image and web programs. Students learn effective use of animation and static pages to communicate with viewer on internet.

ART 331 Digital Design (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ART 134 or sophomore standing for non-art majors.

Taught: Fall only

Investigation into concepts, structures, and techniques necessary to produce sophisticated digital imagery using a variety of word and image programs.

ART 380 Study Abroad in Art (1-3 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

Students would participate in and complete assignments associated with traveling with a member of the Department of Art faculty and or student group.

ART 394 Topics in Art (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Fall and spring

Group or individual study/research projects with art department faculty. Topics vary and include technical, conceptual and aesthetic issues and are listed in Schedule of Classes. Repeatable to 6 semester hours toward major in art.

ART 450 Advanced Studio Seminar (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Criticism of work, practical gallery experience, and expansion of awareness of contemporary professional realities in the exhibition and sale of one's work.

ART 494 Topics in Art (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Fall and spring

Group or individual studio study/ research projects in selected media with faculty. Topics vary and include technical, conceptual, and aesthetic issues and are listed in Schedule of Classes. Repeatable up to 6 semester hours toward major in art.

ART 496 Teaching Assistantship in Art (1-3 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: consent of instructor and chair, junior or senior standing in Visual Arts.

Taught: Fall and spring

Student will assist a current faculty member in the teaching of a course within the Department of Art. Student responsibilities/involvement would vary based on a written agreement with instructor.

ART 497 Senior Exhibition (1 credit)

Hours: 1 classroom + 1 lab/studio

Prerequisites: ART 299.

Taught: Fall and spring

Capstone experience for all BFA students majoring in art. During the senior year of residency in the Department of Visual Art, students will learn valuable skills of exhibition design and production, culminating in an exhibition of their work critiqued by a faculty committee. All BFA students must register for and pass BFA Senior Exhibition.

ART 498 Independent Study in Art (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Projects, directed by faculty members, must be selected before registration. A maximum of 6 semester hours of independent study is applicable toward the major in art.

ART 499 Gallery/Museum Internship (3-6 credits)

Hours: 3-6 classroom + 0 lab/studio

Prerequisites: Permission of department.

Taught: Fall and spring

Student works in gallery or museum gaining practical experience in methods, procedures, and programming specific to professional exhibition venues in the visual arts.

Ceramics Courses (ARTC)**ARTC 240 Ceramics I (3 credits)**

Hours: 3 classroom + 3 lab/studio

Prerequisites: ART 131, ART 132, ART 133 and ART 134 or permission of instructor. PREREQ's waived for non majors.

Taught: Fall and spring

Nature of clay and ceramic materials; traditional methods of pinch, coil, and slab formations.

ARTC 340 Wheel Throwing (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTC 240.

Taught: Fall and spring

Basic orientation to wheel throwing; technique, form, and function; individual problem solving; maintaining and firing kilns; stoneware and firing techniques. May be repeated for a total of 9 semester hours.

ARTC 341 Ceramic Sculpture (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTC 240.

Taught: Spring only

Clay as a sculptural medium; fabrication techniques, clay body formulation, and surfaces; engineering, installation, and assembly; introduction to experimental processes; individual problem solving. May be repeated for a total of 6 semester hours.

ARTC 342 Raku and Primitive Firing (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTC 240.

Taught: Fall only

Advanced studio credit in Raku and primitive firing techniques.

ARTC 440 Advanced Ceramics (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: 9 credits of 300-level ceramics.

Taught: Fall and spring

Exhibition of student initiative in developing as ceramic artist; personal development stressed. Students are expected to execute projects 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)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTC 340 or ARTC 341.

Taught: Fall only

Clay and glaze theory and formulation; materials handling and studio maintenance; laboratory work, lectures, and research. Required of students who concentrate in ceramics.

ARTC 443 Kiln Construction (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTC 340.

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

Drawing Courses (ARTD)**ARTD 310 Drawing II (3 credits)**

Hours: 3 classroom + 3 lab/studio

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

Taught: Fall and spring

Continuation of ART 131. Human figure in development of spatial and tonal concepts; various media and color; advanced study of figure directed toward an individual medium and style. To be repeated for a total of 6 semester hours.

ARTD 410 Advanced Drawing (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTD 310 for 6 hours.

Taught: Fall and spring

Students will work towards execution of a body of work expressive of their cumulative knowledge; life drawing encouraged; working towards a graduating senior show. To be repeated for a minimum of 6 semester hours or a maximum of 12 semester hours.

Visual Communication Design Courses (ARTV)**ARTV 101 Adobe Creative Cloud: Vis. Design Basics (3 credits)**

Hours: 3 classroom + 3 lab/studio

Taught: Fall and spring

Exposure to digital imaging tools with focus on Adobe Creative Cloud software including Photoshop, Illustrator, Indesign and Bridge for creating visual graphics for potential use in layout, interactive, print and other multi-media production scenarios. Application of learning is for general creative and academic contexts. A primer in elementary concepts of layout, design and typography principles. For students outside of Visual Communication Design major.

ARTV 201 Intro to Computer Graphics for Design (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ART 131 and ART 132.

Co-requisites: ART 133 and ART 134.

Taught: Spring only

Introduction to industry-standard software used for vector illustration, raster image composition, and hybrid layouts. May be substituted by CEP 300 with consent of instructor or academic adviser.

ARTV 215 Visual Communication Design (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ART 131, ART 132, ART 133 and ART 134. COREQ. ARTV 217 and ARTV 283.

Taught: Fall only

Introduction to the principles and theory of visual communication design; studio development of techniques and approaches for creative conceptualization, design aesthetics and information design; exploration through the design process; exploration of media/materials; presentational development.

ARTV 217 Typography I (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTV 201.

Co-requisites: ARTV 215 and ARTV 283.

Taught: Fall only

Studio introduction to principles, theory, and history of typography for communication and visual expression. Design aesthetics and functional dimensions of the fundamentals of typography are explored.

ARTV 283 Graphic Design Admittance Review (0 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: ART 131, ART 132, ART 133, ART 134, and ARTV 201.

Co-requisites: ARTV 215 and ARTV 217.

Taught: Fall only

Admittance review into the visual communication design program. Students present work from the introductory design and foundations-level courses for review by the design faculty for consideration in declaring the major.

ARTV 315 Visual Communication Design II (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTV 215, ARTV 217, ARTV 283.

Taught: Fall only

Development of skills for design systems thinking and applications; principles of information design and visual semantics; design with multiple forms of media for generating bodies of branded visual communication materials and sequential graphics.

ARTV 317 Typography II (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTV 201, ARTV 215, ARTV 217, ARTV 283.

Taught: Spring only

The application of typographic fundamentals to visual communication design contexts and systems; aesthetics, form, functionality and experimentation with typography in increasingly complex contexts. Exploration of formal expressions of meaning and message.

ARTV 325 Techniques in Visual Communication Design (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTV 283, ARTV 317 and ARTV 315.

Taught: Spring only

Imaging, prototyping, sustainable production methodologies and techniques for producing high-quality visual design across print and interactive media. Studio-based course that instructs on best practices and experiments with new tools in proposing and actualizing design ideas.

ARTV 326 Illustration (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ART 131, ARTP 230 and ARTD 310.

Taught: Spring only

Techniques of creative rendering.

ARTV 330 Interaction Design for Visual Communication Design I (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTV 283, ARTV 317.

Taught: Fall only

This course focuses on the fundamental designing of websites and interfaces for visual communication through studio-based inquiry and visual problem-solving. This includes visual, conceptual, and creative strategies and processes for design for web, digital media and human experiences; information architecture; the aesthetics of interaction design; screen-based typography; human factors, usability, and web standards. Students learn web authoring tools and technology in addition to basic animation software to engage in challenges that build competencies in visual communication design contexts.

ARTV 396 Portfolio Prep Visual Communication Des. (1 credit)

Hours: 1 classroom + 0 lab/studio

Prerequisites: ARTV 283 and ARTV 317.

Taught: Fall and spring

Portfolio package creation for Visual Communication Design majors preparing to enter into industry—professional internship or employment. Digital, interactive or print portfolios are prepared in relation to current practices and individual student career orientation. Students entering into course are responsible for having a sufficient number of works prior to entering course—this course focuses on portfolio creation, not project development. Repeatable 1 time.

ARTV 415 Visual Communication Design III (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTV 315, ARTV 317, ARTV 325, ARTV 330, ARTV 417.

Taught: Spring only

Comprehensive graphic designing in project form across media; critical thinking on formal, functional, and professional levels; the social impact of design; client and agency skills directed toward individual areas of specialization and professionalism.

ARTV 417 Typography III (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTV 215, ARTV 217, ARTV 283, ARTH 321, ARTV 315, ARTV317 and ARTV325.

Taught: Fall only

Advanced explorations, applications of and innovations with typography in complex visual communication contexts; functional and aesthetic design considerations in varied media and formats; exploration of organizational systems for the design of large amounts of varied/sequential content.

ARTV 421 Topics in Visual Communication Design (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTV 283 and ARTV 317.

Taught: Spring only

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

ARTV 425 Information Design (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTV 317, ARTV 315, ARTV 325, and ARTV 330.

Taught: Fall only

Transformation of complex data into understandable forms of information through clear visual presentations, systems and experiences; User-centered visual design principles and aesthetics are applied across media to time-based, diagrammatic, pictogrammatic, navigational/wayfinding, instructional, and educational topics.

ARTV 427 Motion Design (3 credits)

Prerequisites: ARTV 317, ARTV 315, ARTV 325, and ARTV 330.

Taught: Variable, check with department

This course focuses on designing motion, animation and time-based experiences for visual communication design contexts through studio inquiry and visual problem-solving. This includes visual, conceptual, technical, and creative strategies and processes to produce animations for multimedia environments. Students build competencies with motion design tools, technology and software.

ARTV 428 Visual Communication Design Capstone (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ARTV 327 and ARTV 425.

Co-requisites: ART 497.

Taught: Fall and spring

Development of a comprehensive, student-devised project reflecting cumulative knowledge in visual communication design strategies and media; planning, creation, direction, and execution of that design project; development of professional practice skills, personal portfolio, exhibition, and public presentation.

ARTV 430 Interaction Design for Vis Com Des II (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTV 283, ART 299 and ARTV 330.

Taught: Fall and spring

Advanced studio inquiry in interaction design through a framework of visual communication strategies for mobile and environmental media.

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

Hours: 3 classroom + 3 lab/studio

Prerequisites: EDU 104.

Taught: Fall, spring, and summer

Use of appropriate teaching methods, materials, techniques and vocabulary to develop meaningful art experiences in an elementary classroom. For students seeking provisional certification in Elementary Education.

ARTE 281 Concepts in Art Education (3 credits)

Hours: 3 classroom + 3 lab/studio

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

Taught: Variable, check with department

Introduction to the field of art education. Examination of current issues in teaching resources. Includes practical field experiences.

ARTV 496 Visual Communication Design Internship (3 credits)

Hours: 3 classroom + lab/studio

Prerequisites: ARTV 283, ARTV 315, ARTV 325, and ARTV 330.

Taught: Fall and spring

Experiential Component for Visual Communication Design majors. Students arrange a design internship or similar experience that acclimates them to the profession of visual communication design before graduation. Students must make arrangements with instructor before beginning this course. Repeatable up to 6 hrs. (or CEP 300 Coop. Education)

ARTE 381 Art Education: Content I (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTE 281.

Taught: Variable, check with department

Teaching methods, materials and inquiry for use in elementary art classrooms. Includes practical field experiences.

ARTE 382 Art Education: Content II (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTE 381.

Taught: Variable, check with department

Teaching methods, materials and inquiry for use in secondary art classrooms. Focus on curriculum development, assessment and classroom management. Includes practical field experience.

History Courses (ARTH)**ARTH 101 Survey of Western Art I (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

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

ARTH 102 Survey of Western Art II (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Examination of Europe's major artists and styles from Renaissance to mid-19th century.

ARTH 103 Survey of Western Art III (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

A study of key artists and art movements in Europe and America from the late nineteenth through twentieth century.

ARTH 104 Survey of Asian Art (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

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

ARTH 321 History of Visual Communication Design (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ARTH 103, ARTV 225, ARTV 226, AND ARTV 283.

Taught: Fall and spring

Survey of a history of graphic/visual communication design and typography including consideration of influential cultural forces, theories for design, and related fields; influences of fashion, industrial, and interior design, art, architecture, and technology discussed.

ARTH 349 Women and Art (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department
Significant women artists in the history of Western art from antiquity through modern times; issues and themes affecting women's participation in the visual arts.

ARTH 350 Ancient Art (3 credits)

Hours: 3 classroom + 0 lab/studio

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

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

ARTH 351 Medieval Art (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or 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)

Hours: 3 classroom + 0 lab/studio

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)

Hours: 3 classroom + 0 lab/studio

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)

Hours: 3 classroom + 0 lab/studio

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)

Hours: 3 classroom + 0 lab/studio

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)

Hours: 3 classroom + 0 lab/studio

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)

Hours: 3 classroom + 0 lab/studio

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)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department
Survey of the major issues and developments in photography from 1835 to the present.

ARTH 359 Arts and Crafts of Japan (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ARTH 104.

Taught: Variable, check with department
Historical, cultural survey of Japanese arts and crafts; includes painting, printmaking, ceramics, textiles, gardening, Kabuki, and Noh drama.

ARTH 360 African-American Art (3 credits)

Hours: 3 classroom + 0 lab/studio

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

ARTH 394 Topics in Art History (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: ARTH 101 or ARTH 102 or ARTH 103 or ARTH 104 or consent of instructor.

Taught: Variable, check with department
Group or individual study/research projects with art history faculty. Topics vary and include technical, conceptual, aesthetic and/or historical issues and are listed in the schedule of classes. Repeatable to 6 semester hours toward major in art.

ARTH 452 Arts of South Asia (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ARTH 104.

Taught: Variable, check with department
Cultural and historical topics on South Asian art and artifacts; aesthetics, architecture, film, literature, painting, and sculpture.

ARTH 454 Art Now (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 credit hours of ART Survey courses (ARTH 101, 102, 103, or 104).

Taught: Variable, check with department
In-depth study of contemporary art, the major movements and artists working today with an emphasis on the role of theory and criticism.

New Art Media Courses (ARTM)**ARTM 350 Video, Installation & Sound I (3 credits)**

Hours: 3 classroom + 3 lab/studio

Prerequisites: ART 134 or sophomore standing for non-art majors.

Taught: Fall only

This course will explore the conceptual components of video, installation and sound art while providing specific skills using non-linear editing software and creating site specific work.

ARTM 360 Robotic Art (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing.

Taught: Variable, check with department

This course will explore emerging technological based artworks that include robotics, kinetics and interactive media. Conceptual components of time, space, and interactivity will be researched in this course while providing specific skills in fabricating moving objects and other robotic elements. There will be a series of workshops in which one will learn the skills, capabilities and building techniques of electricity, motors, programming circuits and implementing them into your ideas and artwork. The course will culminate with an independently created robotic controlled object that the student will fabricate.

ARTM 361 A.I. and Interactive Media Studio (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing.

Taught: Variable, check with department

This course will explore interactive media allowing students to create and augment work that will react to the viewer. In addition concepts and principles of Artificial Intelligence will be explored and integrated into art, video and or mechanical systems.

ARTM 394 Topics in New Media Art (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: Sophomore standing.

Taught: Spring only

Topics vary from semester to semester. This studio course will explore emerging technological and time based artwork. Conceptual components of time, space, performance and

technology will be researched and explored. May be repeated when topics vary.

ARTM 450 Video Installation and Sound II (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTM 350.

Taught: Spring only

This course will explore conceptual components of video art while providing advanced skills in pre-production, production and post-production. Including the study of film, social theory, video art and their interrelationships. Students will learn advanced non-linear editing and sound techniques. Students will explore the different ways in which to exhibit video based work including installation, performance, and new genre.

ARTM 451 New Media-Integrative Art (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTM 350.

Taught: Variable, check with department

Students will work with external organizations or departments at the University outside the Department of Visual Arts to create an integrated project that utilizes this knowledge base and information.

ARTM 460 Advanced New Media Art (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ARTM 450.

Taught: Variable, check with department

Students are expected to work toward a unique conceptual and technical framework that embodies their personal vision and studio art practice. Students are expected to execute a consistent body of work suitable for exhibition as a one-person show/senior show. To be repeated a minimum of 3 semester hours or a maximum of 9 semester hours.

Photography Courses (ARTO)

ARTO 210 Photography I (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ART 131, ART 132, ARTH 103 or consent of instructor for non-majors.

Taught: Fall and spring

Basic digital camera work in black and white; basic camera controls, photographic vision, photo history; contemporary trends; introduction to current software and digital printing techniques. Students are required to supply a digital SLR camera as well an external hard drive.

ARTO 218 Study Abroad Photography I (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Beginning Photography course for students traveling abroad. Instruction in exposure,

composition, and traditional photographic techniques. Students are encouraged to shoot digitally although film-based cameras acceptable. Critiques while traveling and finished project of artist book or album at completion of trip.

ARTO 310 Photography II (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTO 210.

Taught: Fall and spring

Continuation of ARTO 210 with addition of color, introduction to current software for photo editing and fine printing.

ARTO 311 Photography III (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: 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 312 Applied Photography I (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ART 131, ART 132, ART 133, ART 134 and ARTO 310.

Taught: Variable, check with department

This course is an introduction into the world of applied photography with advanced instruction in the use of digital cameras, including white balance, color temperature, flash, editing, archiving, processing and studio lighting. Portfolio preparation and basic business practices will be covered with weekly photo and writing assignments covering topics concerned with contemporary commercial and editorial photography.

ARTO 315 Photo-Documentary (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTO 210.

Taught: Fall only

The photo-documentary as an expression of history, sociology, and the human condition. Can be repeated for a total of 6 semester hours.

ARTO 318 Study Abroad Photography II (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTO 210.

Taught: Variable, check with department

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

ARTO 394 Topics in Photography (1-3 credits)

Hours: 1-3 classroom + 1-3 lab/studio

Prerequisites: ARTO 210, ARTO 310 or consent of instructor.

Taught: Variable, check with department

Group or individual projects in photography. Topics vary from semester to semester and include technical, conceptual and aesthetic issues in photography and are listed in Schedule of Classes. Repeatable up to 6 semester hours as topics vary and used as electives in Photography.

ARTO 410 Photography IV (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTO 311.

Taught: Fall and spring

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

ARTO 411 Summer Workshop in Photography (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTO 210.

Taught: Summer only

Intensive summer workshop in photography covering a variety of approaches and techniques. Repeatable up to 6 credit hours.

ARTO 413 Applied Photography: Studio and Architecture (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTO 311, ARTO 312 and ARTO 383.

Taught: Spring only

Overview of commercial photography; studio illustration and architectural photography.

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

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTO 311, ARTO 312, and ARTO 383.

Taught: Fall only

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

ARTO 418 Study Abroad Photography III (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Advanced photography course for students traveling abroad. Instruction in exposure, composition, and traditional photographic techniques with self-directed projects. Students are encouraged to shoot digitally although film-based cameras acceptable. Cri-

niques while traveling and finished project of artist book or album at completion of trip.

Painting Courses (ARTP)

ARTP 230 Painting I (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ART 131 and ART 132.

Taught: Fall and spring

Use of oil painting media; focusing on fundamental painting techniques from direct observation; criticism and contemporary concepts.

ARTP 330 Painting II (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTP 230.

Taught: Fall and spring

Fundamental issues of figurative painting; sophistication of technique; continued development of personal expression and creative invention based on observation and compositional concerns; exposure to professional standards for craft and conceptual responsibility. Repeatable up to 6 semester hours.

ARTP 333 Materials and Techniques in Painting (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ART 131, ART 132, ART 133 and ARTP 230.

Taught: Fall only-even years

Various Paint media techniques; professional studio methods; conceptual and craft development.

ARTP 430 Painting III (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTP 330.

Taught: Fall and spring

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

Printmaking Courses (ARTR)

ARTR 272 Printmaking I (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ART 131 and ART 132.

Taught: Fall and spring

Basic concepts in printmaking procedures: preparation of blocks and plates, inking, registration, printing by hand and with the press; relief, monoprint, and etching techniques.

ARTR 373 Printmaking II (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTR 272.

Taught: Fall and spring

Continuation of introductory printmaking; further development of technique and personal imagery in various printmaking disciplines;

relief, intaglio, monoprint, silkscreen, or collagraphy. Repeatable to 6 semester hours.

ARTR 374 Techniques in Printmaking (3 credits)

Hours: 3 classroom + 3 lab/studio

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

Taught: Fall and spring

Methods and processes in fine art printmaking in one or more of the following: relief, collagraphy; intaglio, lithography, mixed media, monotype, photo printmaking, screen printing; development of personal imagery. Repeatable to 12 semester hours.

ARTR 375 Screen Printing (3 credits)

Hours: 3 classroom + 3 lab/studio

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

Taught: Fall and spring

Methods and processes in fine art screen printing including paper, screen filler, drawing fluid, and photo emulsion techniques. Development of personal imagery, and technical skill. Repeatable to 12 semester hours.

ARTR 473 Advanced Printmaking (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTR 373 or ARTR 374.

Taught: Fall and spring

Advanced techniques in printmaking; development of personal imagery, refinement of technical skills, experimentation in mixed techniques; color printing. Repeatable for a maximum of 12 semester hours.

ARTR 474 Workshop in Printmaking (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: consent of instructor. Repeatable to 12 hours.

Taught: Fall and spring

Independent study in advanced printmaking.

Sculpture Courses (ARTS)

ARTS 262 Sculpture I (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ART 131 and ART 132 or consent of instructor for non-majors.

Taught: Fall and spring

Introduction to sculpture concepts, media, and techniques.

ARTS 360 Techniques in Sculpture (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ART 131, ART 132, ART 133 and ART 134 or consent of instructor.

Taught: Variable, check with department

Methods and processes in sculpture with an emphasis on fabrication and casting tech-

niques, personal artistic development and discipline awareness.

ARTS 362 Topics in Sculpture: Concepts and Media (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: ARTS 262 or consent of instructor for non-majors.

Taught: Fall only

In-depth exploration of sculptural media; conceptual development. May be repeated when topics vary for a minimum of 6 semester hours or a maximum of 9 semester hours.

ARTS 460 Sculpture: Advanced Study (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: 9 credits of 300-level sculpture.

Taught: Fall and spring

Visual, technical, and conceptual problems initiated by students; personal development; individual expression. Students are expected to execute a consistent body of work suitable for a senior show. May be repeated for a maximum of 12 semester hours.

Astronomy Courses (AST)

AST 110 Solar System Astronomy with Laboratory - SL (4 credits)

Hours: 3 classroom + 2 lab/studio

Taught: Fall, spring, and summer

Integrated lecture and laboratory; survey of the solar system with emphasis on application of scientific method; current thought on structure, dynamics, origin, and evolution of sun and planets; laboratory activities on observational techniques and astrophysical problems. Knowledge of elementary algebra is helpful. *General education credit: Natural Science*

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

Hours: 3 classroom + 2 lab/studio

Taught: Fall, spring, and summer

Integrated lecture and laboratory; structure, dynamics, origin, and evolution of stars, galaxies, and the universe within a framework of scientific methodology; laboratory activities on observational techniques and astrophysical processes. Knowledge of elementary algebra is helpful. *General education credit: Natural Science*

AST 210 Backyard Astronomy (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: MAHD 099, AST 110 or AST 115.

Taught: Variable, check with department

Introduction to observational astronomy, including naked-eye observing, observing with binoculars, and telescopic observing. Topics such as amateur astronomy, star charts, coordinates, time, binoculars, telescopes, eyepieces, filters, mountings, site selection, ob-

servations of solar system objects, deep-sky observations, astrophotography and imaging may also be included.

AST 294 Topics: Astronomy (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: consent of department chair.

Taught: Variable, check with department

Special topics in astronomy. Repeatable for a maximum of 12 semester hours.

AST 310 Astronomical Techniques (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: PHY 224 or PHY 213, and MAT 129 or MAT 227.

Taught: Variable, check with department

Lecture/lab course introduces the techniques of observational astronomy. Topics may include: celestial sphere, coordinate systems, time measurements, charts, catalogs and databases, spherical trigonometry, optical telescopes, atmospheric effects, detectors and calibration, astronomical photometry, spectroscopy and spectrographs, and astronomical imaging.

AST 315 Introductory Astrophysics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MAT 129 or MAT 227, and "C-" or better in PHY 222 or PHY 213.

Taught: Variable, check with department

Quantitative application of physical principles to subjects of astronomical interest, such as the interaction of radiation with matter, analysis of stellar atmospheres, origin and evolution of the elements, and cosmology. Same as PHY 315.

AST 325 Geology of the Planets (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: GLY 110 or AST 110.

Taught: Variable, check with department

Geologic features and history of the inner planets, satellites of the gas giants, asteroids and other small solid bodies. Same as GLY 325.

AST 392 Directed Research: Astronomy (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: junior standing.

Taught: Variable, check with department

Supervised research in an area of astronomy currently under investigation by one or more members of the astronomy faculty. Repeatable for a maximum of 9 semester hours.

AST 394 Topics: Astronomy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: AST 115 or consent of instructor.

Taught: Variable, check with department

Topics of current astronomical interest or significant physical and philosophical importance, e.g., cosmology, black holes, relativity, stellar

evolution, the interstellar medium, observational techniques, space flight, and exobiology.

AST 397 Special Projects: Astronomy (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: junior standing.

Taught: Variable, check with department

Completion of an independent project in astronomy. Repeatable for a maximum of 6 semester hours.

AST 399 Independent Study in Astronomy (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: AST 394.

Taught: Variable, check with department

Directed projects for advanced students.

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

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: 8 semester hours of upper division physics or astronomy courses.

Taught: Variable, check with department

Supervised research in an area of astronomy currently under investigation by one or more members of the astronomy faculty. Repeatable for a maximum of 9 semester hours.

Athletic Training Program Courses (ATP)

ATP 101 Concepts of Athletic Training (1 credit)

Hours: 1 classroom + 0 lab/studio

Taught: Variable, check with department

This course is designed to provide students with an understanding of Athletic Training educational and professional requirements.

ATP 200 Medical History and Documentation (1 credit)

Hours: 1 classroom + 0 lab/studio

Co-requisites: ATP 201 and ATP 280.

Taught: Fall and spring

Knowledge, skills, and values required for an entry-level certified athletic trainer to conduct a patient history, identify the parts of the evaluation process, and produce appropriate documentation associated with the process. The course will focus on pathology, etiology, clinical skills for assessment, proper care, and referral to other health care personnel when necessary.

ATP 201 ROM, Goniometry, and Manual Muscle Test (1 credit)

Hours: 0 classroom + 2 lab/studio

Co-requisites: ATP 200 and ATP 280.

Taught: Fall and spring

Knowledge, skills, and values required for an entry-level certified athletic trainer to conduct

the basic physical assessments skills associated with orthopedic evaluation.

ATP 280 Pre-Athletic Training (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: Permit of ATEP Director.

Co-requisites: ATP 200 and ATP 201.

Taught: Fall and spring

Knowledge, skills, and values necessary for a student entering the Athletic Training Education Program (ATP). The lab portion of the course emphasizes skill development in areas including but not limited to: immediate injury treatment, application of orthopedic appliances, and taping/wrapping. The course includes 50 hours observation with athletic trainers in a variety of employment settings. Students applying to the ATEP must take this course simultaneously with KIN 280.

ATP 296 Athletic Training Clinical I (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: HEA 135, PHE 280.

Taught: Spring only

A laboratory instruction and evaluation of NATA education competencies and clinical proficiencies associated with the topics presented in PHE 280 and other pre-professional courses. The course has an associated clinical assignment that provides a supervised practical experience in a athletic training setting.

ATP 300 Equipment Intensive Field Experience Program (1 credit)

Hours: 0 classroom + 2 lab/studio

Taught: Fall only

The primary focus is the application of sport related equipment and includes knowledge and skills associated with high-risk sports medical coverage. Athletic Training students must complete a minimum of 60 clock hours.

ATP 333 Lower Extremity Evaluation (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: KIN 280, ATP 280, ATP 200, ATP 201, BIO 208 and BIO 208L.

Co-requisites: ATP 333L.

Taught: Spring only

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

ATP 333L Lower Extremity Evaluation Lab (1 credit)

Hours: 0 classroom + 2 lab/studio

Co-requisites: ATP 333.

Taught: Variable, check with department

Knowledge, skills, and values required for an entry level certified athletic trainer for evalua-

tion of lower extremity injuries associated with athletes and the physically active. The course will focus on the clinical skills needed for the examination and clinical diagnosis of injuries to the lower extremity.

ATP 334 Upper Extremity Evaluation (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: ATP 200, ATP 201, ATP 280, KIN 280, BIO 208, and BIO 208L.

Co-requisites: ATP 334L.

Taught: Fall only

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

ATP 334L Upper Extremity Evaluation Lab (1 credit)

Hours: 0 classroom + 2 lab/studio

Co-requisites: ATP 334.

Taught: Variable, check with department

Knowledge, skills, and values required for an entry level certified athletic trainer for evaluation of upper extremity injuries associated with athletes and the physically active. The course will focus on the clinical skills needed for the examination and clinical diagnosis of injuries to the upper extremity.

ATP 335 Head and Spine Evaluation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ATP 200, ATP 201, ATP 280, KIN 280, BIO 208, and BIO 208L.

Taught: Spring only

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

ATP 350 Athletic Training Junior Seminar (1 credit)

Hours: 1 classroom + 0 lab/studio

Co-requisites: ATP 367.

Taught: Variable, check with department

This course involves discussion of student experiences in clinical athletic training and laboratory practice of skills required for clinical athletic training. This course has an associated clinical assessment that provides a supervised practical experience in an athletic training setting.

ATP 366 Athletic Training Clinical Practicum I (1 credit)

Hours: 0 classroom + 0 lab/studio

Prerequisites: ATP 200, ATP 201, ATP 280, KIN 280, BIO 208, BIO 208L, and permission from instructor.

Taught: Fall and spring

The purpose of this course is to provide students a guided application of knowledge, skills, clinical decision making, and professional behaviors in a real world patient care setting. The course reflects introductory content including but not limited to: taping, wrapping, triage, first-aid, injury recognition, initial treatment, and SOAP note writing. Students complete a total of 50 clock hours with an Approved Clinical Instructor (ACI). For more details on clinical assignment requirements and eligibility please contact the Athletic Training Education Program.

ATP 367 Athletic Training Clinical Practicum II (3 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: Permission of instructor.

Co-requisites: ATP 350.

Taught: Fall and spring

The purpose of this course is to provide students a guided application, knowledge, skills, clinical decision making, and professional behaviors in a real world patient care setting. The course reflects content including but not limited to examination of common injuries and conditions associated with the physical activity patient. Students complete 10 hours/per week (150 total) with an Approved Clinical Instructor (ACI). For more details on clinical assignment requirements and eligibility please contact the Athletic Training Education Program.

ATP 394 Athletic Training Practicum II (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: Admission to the Athletic Training Program; ATP 333.

Taught: Fall only

A laboratory instruction and evaluation of NATA education competencies and clinical proficiencies associated with the topics presented in ATP 333, PHE 280 and other athletic training major courses. Course has an associated clinical assignment that provides a supervised practical experience in a athletic training setting.

ATP 396 Athletic Training Clinical III (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: Admission to the Athletic Training Program; ATP 334, 420, and KIN 370.

Taught: Spring only

A laboratory instruction and evaluation of NATA education competencies and clinical proficiencies associated with the topics pre-

sented in ATP 334, 420, and PHE 370 and other athletic training major courses. Course has an associated clinical assignment that provides a supervised practical experience in an athletic training setting.

ATP 420 General Medical for Athletic Training (3 credits)

Hours: 3 classroom + 0 lab/studio

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

Taught: Fall only

The principles necessary for an entry level certified athletic trainer to identify, assess, and provide appropriate care and referral of general medical (non orthopedic conditions commonly seen by sports medicine specialists).

ATP 425 Therapeutic Modalities (3 credits)

Hours: 3 classroom + 0 lab/studio

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

Co-requisites: ATP 425L.

Taught: Fall only

Provide knowledge, skills, and values that the entry level certified athletic trainer must possess to plan, implement, document, and evaluate the efficacy of therapeutic modalities in the treatment of injuries to and illness of athletes and others involved in physical activity. The course has a 1 hour mandatory lab.

ATP 425L Therapeutic Modalities Lab (1 credit)

Hours: 0 classroom + 2 lab/studio

Co-requisites: ATP 425.

Taught: Variable, check with department

Knowledge, skills, and values required for an entry level certified athletic trainer must possess to plan, implement, document, and evaluate the efficacy of therapeutic modalities in the treatment of injuries to and illness of athletes and other involved in physical activity.

ATP 430 Pharmacology for Athletic Training (3 credits)

Hours: 3 classroom + 0 lab/studio

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

Taught: Fall only

Exploration of legal, physiological, and ethical parameters governing the use of pharmacological agents commonly used in the athletic training settings.

ATP 435 Administration of Athletic Health Care (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: KIN 280.

Taught: Fall only

Provides the athletic training student with information that will enhance his/her ability to function effectively as a professional and to enhance awareness of current administrative,

professional, and legal issues pertaining to athletic training and sports medicine.

ATP 440 Rehabilitation of Athletic Injuries (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ATP 334, ATP 334L, BIO 208, BIO 208L, BIO 209, BIO 209L, and KIN 370.

Co-requisites: ATP 440L.

Taught: Spring only

Provides the knowledge, skills, and values that entry-level certified athletic trainers must possess to plan, implement, document, and evaluate the efficacy of therapeutic exercise programs for rehabilitation and reconditioning of the injuries and illnesses of athletes and others involved in physical activity.

ATP 440L Rehabilitation of Athletic Injuries Lab (1 credit)

Hours: 0 classroom + 2 lab/studio

Co-requisites: ATP 440.

Taught: Variable, check with department

Knowledge, skills, and values required for an entry level certified athletic trainer must possess to plan, implement, document, and evaluate the efficacy of therapeutic exercise in the treatment of injuries to and illness of athletes and other involved in physical activity.

ATP 450 Senior Teaching Seminar (1 credit)

Hours: 0 classroom + 0 lab/studio

Prerequisites: ATP 350.

Co-requisites: ATP 467.

Taught: Fall and spring

This course employs peer teaching, which allows the senior level student to disseminate knowledge to underclassmen. The student will assist the course instructor in teaching the students in the hands on skills associated with either ATP 333L, 334L, 425L, or 440L.

ATP 455 Current Issues in Athletic Training (3 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: Permission from instructor.

Taught: Spring only

Provides a comprehensive review of modern athletic training issues. The course is also designed to provide the student with an introduction to research methods for health sciences/athletic training.

ATP 466 Athletic Training Clinical Practicum IIIA (12 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: ATP 333, ATP 333L, ATP 334, ATP 334L, ATP 335, ATP 367, ATP 425, ATP 425L, ATP 440, ATP 440L and permission from instructor.

Taught: Variable, check with department

The purpose of this course is to provide students a guided application, knowledge, skills, clinical decision making, and professional

behaviors in a real world patient care setting. The course reflects content including but not limited to the treatment, rehabilitation, and reconditioning of injuries/conditions associated with the physical active patient. This is a culminating clinical education experience in which students are required to 40 hours per/week with an Approved Clinical Instructor (ACI). As a result of the clinical demands students are not allowed to enroll in more than 3 additional credit hours.

ATP 467 Athletic Training Clinical Practicum IIIB (1 credit)

Hours: 0 classroom + 0 lab/studio

Prerequisites: ATP 366, ATP 435, ATP 367 and ATP 430.

Taught: Variable, check with department

The purpose of this course is to provide students a guided application, knowledge, skills, clinical decision making, and professional behaviors in a real world patient care setting. The course reflects content including but not limited to the professional service, organizational/administrative and pharmacology. This is a culminating clinical education experience in which students are required to complete a total of 50 clock hours with an Approved Clinical Instructor (ACI).

ATP 494 Athletic Training Practicum IV (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: Admission to Athletic Training Program; ATP 430, 425, KIN 260, 340.

Taught: Fall only

A laboratory instruction and evaluation of NATA education competencies and clinical proficiencies associated with the topics presented in ATP 430, 425, PHE 260 and 440. The course has an associated clinical assignment that provides a supervised practical experience in an athletic training setting.

ATP 496 Athletic Training Clinical V (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: Admission to Athletic Training Program; ATP 435, 440, PSY 405 and KIN 349.

Taught: Spring only

A laboratory instruction and evaluation of NATA education competencies and clinical proficiencies associated with the topics presented in ATP 435, 440, PSY 405, PHE 465 and other athletic training major courses. The course has an associated clinical assignment that provides a supervised practical experience in an athletic training setting.

Biological Sciences Courses (BIO)

BIO 120 Understanding the Living World - NS (4 credits)

Hours: 3 classroom + 0 lab/studio

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

Co-requisites: BIO 120L.

Taught: Fall, spring, and summer

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

General education credit: Natural Science

BIO 120H Honors Understanding the Living World - NS (4 credits)

Hours: 3 classroom + 0 lab/studio

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

Co-requisites: BIO 120L.

Taught: Spring only

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

General education credit: Natural Science

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

Hours: 0 classroom + 2 lab/studio

Co-requisites: BIO 120 or BIO 120H.

Taught: Fall, spring, and summer

Lab to accompany BIO 120 or BIO 120H.

General education credit: Natural Science

BIO 121 Diseases and the Systems they Affect - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

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

Taught: Fall and spring

Anatomy and physiology, including skeletal, muscular, nervous, endocrine, circulatory, respiratory, digestive, urinary, and reproductive systems and diseases that affect each. Not applicable to major or minor in biological sciences.

General education credit: Natural Science

BIO 121L Diseases and the Systems they Affect Laboratory - SL (1 credit)

Hours: 0 classroom + online 2 lab/studio

Prereq OR Co-req: BIO 121.

Taught: Fall and spring

Laboratory to accompany BIO 121. Microscopy, anatomy, and physiology.

General education credit: Natural Science

BIO 123 Human Ecology - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

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

Taught: Spring only

Applications of ecological science to human impacts on natural ecosystems and use of natural resources; human population dynamics; conservation of biological diversity and ecosystem function. Not applicable to the major or minor in biological sciences.

General education credit: Natural Science

BIO 125 Biological Perspectives of Wellness - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

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

Taught: Fall, spring, and summer

Covers mental health, including depression, panic disorders, and addictions, as well as physical health, including eating disorders, heart attacks, and sexually transmitted diseases, among other topics. Not applicable to major or minor in biological sciences.

General education credit: Natural Science

BIO 126 Human Nutrition - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

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

Taught: Fall, spring, and summer

Human nutritional requirements; physiology of digestion and absorption; world food crises; food faddism and miracle diets. Not applicable to major or minor in biological sciences.

General education credit: Natural Science

BIO 150 Introduction to Biology I - NS (4 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: A minimum ACT score of 22 in math and 19 in each remaining division (or SAT equivalent), or completion of all precollege curriculum courses.

Co-requisites: BIO 150L. GENERAL STUDIES: Science inquiry.

Taught: Fall and spring

The chemistry of life; cell structure and function; photosynthesis and respiration; cellular reproduction and Mendelian genetics; gene regulation and DNA technology. Suggested only for students majoring or minoring in biological sciences, other natural sciences or other pre-professional programs.

General education credit: Natural Science

BIO 150L Introduction to Biology I

Laboratory - NS (0 credits)

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 150.

Taught: Fall and spring

Laboratory to accompany BIO 150. Suggested only for students majoring or minoring in biological sciences, natural sciences, or other pre-professional programs.

General education credit: Natural Science

BIO 151 Introduction to Biology II (4 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 150 with a C- or better.

Co-requisites: BIO 151L.

Taught: Spring and summer

Population genetics and evolution; systematics and diversity of life; organismal systems anatomy and physiology; interrelationships among organisms and between organisms and their environment.

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

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 151.

Taught: Spring and summer

Laboratory to accompany BIO 151.

BIO 155 Orientation to Biology (1 credit)

Hours: 1 classroom + 0 lab/studio

Prereq OR Co-req: BIO 150.

Taught: Fall and summer

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

BIO 158 Biological Evolution - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Survey of the principles of heredity of biological change, diversity of life, evidence for evolution, forms of selection, speciation, co-evolution, life history strategies, extinctions, human evolution, and evolution of social behavior. Not applicable to the major or minor in biological sciences.

General education credit: Natural Science

BIO 202 Microbiology for Health Professionals (4 credits)

Hours: 2 classroom + 0 lab/studio

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

Co-requisites: BIO 202L.

Taught: Fall, spring, and summer

Bacteriological techniques; control, epidemiology, and pathogenicity of microorganism; pathogen host relationships; disease states.

Not applicable to major or minor in biological sciences.

BIO 202L Microbiology for Health Professionals Laboratory (0 credits)

Hours: 0 classroom + 4 lab/studio

Co-requisites: BIO 202.

Taught: Fall, spring, and summer

Laboratory to accompany BIO 202. Bacteriological techniques.

BIO 208 Human Anatomy and Physiology I - NS (4 credits)

Hours: 3 classroom + 0 lab/studio

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

Co-requisites: BIO 208L.

Taught: Fall, spring, and summer

Introduction to human structure and function. Not applicable to major or minor in biological sciences.

General education credit: Natural Science

BIO 208L Human Anatomy and Physiology I Laboratory - SL (0 credits)

Hours: 0 classroom + 2 lab/studio

Co-requisites: BIO 208.

Taught: Fall, spring, and summer

Laboratory to accompany BIO 208. Gross and microscopic morphology and application of physiological principles.

General education credit: Natural Science

BIO 209 Human Anatomy and Physiology II (4 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 208.

Co-requisites: BIO 209L.

Taught: Fall, spring, and summer

Continuation of BIO 208 with emphasis on structure and function of organ systems. Students should complete both BIO 208 and 209 for an overall survey of human structure and function. Not applicable to a major or minor in biological sciences.

BIO 209L Human Anatomy and Physiology II Laboratory (0 credits)

Hours: 0 classroom + 2 lab/studio

Co-requisites: BIO 209.

Taught: Fall, spring, and summer

Laboratory to accompany BIO 209. Gross and microscopic morphology and application of physiological principles.

BIO 235 Costa Rican Natural History - AH (3 credits)

Hours: 2 classroom + 3 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

Overview of political, ecological, developmental, and cultural interactions in Costa Rica. Pre- and post-Columbian natural history. Stress on

ecological problems and solutions. Required field trip to Costa Rica during spring break.
General education credit: Global Viewpoints

BIO 272 Medical and Biological Terminology (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 150 or BIO 208.
Taught: Fall only
 Derivatives, prefixes, roots, and suffixes.

BIO 291W Advanced Writing in Biology - WC (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: ENG 101 or ENG 151, and BIO 151.
Taught: Fall, spring, and summer
 Introduction to scientific literature and writing, experimental design, research, and proposal development. Advanced techniques in information search and retrieval, scientific writing, and effective presentation.
General education credit: Written Communication II

BIO 292 Introduction to Research in Biology (0 credits)

Hours: 0 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
 Introduction to research in the biological sciences by participating in a special project or original research directed by a member of the biology faculty. Course intended for science majors interested in biological sciences research but not ready or able to enroll in more advanced research courses. Pass/fail grade only.

BIO 294 Topics: Biological Sciences (1-5 credits)

Hours: 1-5 classroom + 0 lab/studio
Prerequisites: Consent of instructor.
Taught: Variable, check with department
 Intensive study of specialized subject matter in biological sciences. May be repeated for credit when topic varies.

BIO 300 Comparative Vertebrate Anatomy (4 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 151.
Co-requisites: BIO 300L.
Taught: Fall only-even years
 Organs and organ systems of representative vertebrates; phylogenetic relationships among vertebrate classes.

BIO 300L Comparative Vertebrate Anatomy Laboratory (0 credits)

Hours: 0 classroom + 3 lab/studio
Co-requisites: BIO 300.
Taught: Fall only-even years
 Laboratory to accompany BIO 300.

BIO 301 Invertebrate Zoology (4 credits)

Hours: 2 classroom + 0 lab/studio
Prerequisites: BIO 151.
Co-requisites: BIO 301L.
Taught: Fall only-odd years
 Classification, anatomy, physiology, ecology, and preservation of invertebrate animals.

BIO 301L Invertebrate Zoology Laboratory (0 credits)

Hours: 0 classroom + 4 lab/studio
Co-requisites: BIO 301.
Taught: Fall only-odd years
 Laboratory to accompany BIO 301. Field trips.

BIO 302 General Microbiology (4 credits)

Hours: 2 classroom + 0 lab/studio
Prerequisites: C- or better in BIO 151 and CHE 120.
Co-requisites: BIO 302L.
Taught: Fall and spring
 Microbiological techniques; classification and morphology of microorganisms; biochemistry and control of growth; pathogenic microorganisms.

BIO 302L General Microbiology Laboratory (0 credits)

Hours: 0 classroom + 4 lab/studio
Co-requisites: BIO 302.
Taught: Fall and spring
 Laboratory to accompany BIO 302. Microbiological techniques.

BIO 303 Vertebrate Zoology (4 credits)

Hours: 2 classroom + 0 lab/studio
Prerequisites: BIO 151.
Co-requisites: BIO 303L.
Taught: Fall only-even years
 Classification, evolution, life histories, ecology, and distribution of vertebrates.

BIO 303L Vertebrate Zoology Laboratory (0 credits)

Hours: 0 classroom + 4 lab/studio
Co-requisites: BIO 303.
Taught: Fall only-even years
 Laboratory to accompany BIO 303. Field trips, including one weekend field trip.

BIO 304 General Ecology (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 291W.
Taught: Fall, spring, and summer
 Interrelationships between organisms and their environment.

BIO 304L Ecology Laboratory (1 credit)

Hours: 0 classroom + 3 lab/studio
Prereq OR Co-req: BIO 304.
Taught: Fall, spring, and summer
 Sampling techniques, experimental design, and data analyses in ecological research. Field trips.

BIO 305 Developmental Biology (4 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 151.
Co-requisites: BIO 305L.
Taught: Variable, check with department
 Principles and mechanisms of embryonic development.

BIO 305L Developmental Biology Laboratory (0 credits)

Hours: 0 classroom + 2 lab/studio
Co-requisites: BIO 305.
Taught: Variable, check with department
 Laboratory to accompany BIO 305.

BIO 309 Plant Ecology (4 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: BIO 304 or consent of instructor.
Co-requisites: BIO 309L.
Taught: Fall only-odd years
 Interrelationship of plants and their environment; classification, distribution, structure, and analysis of vegetation; plant succession; ecological methods. Field trips.

BIO 309L Plant Ecology Laboratory (0 credits)

Hours: 0 classroom + 3 lab/studio
Co-requisites: BIO 309.
Taught: Fall only-odd years
 Laboratory to accompany BIO 309. Field trips.

BIO 311 Mycology (3 credits)

Hours: 2 classroom + 0 lab/studio
Prerequisites: BIO 150.
Co-requisites: BIO 311L.
Taught: Variable, check with department
 Morphology, identification, evolution, ecology, and culturing techniques of fungi.

BIO 311L Mycology Laboratory (0 credits)

Hours: 0 classroom + 2 lab/studio
Co-requisites: BIO 311.
Taught: Variable, check with department
 Laboratory to accompany BIO 311.

BIO 312 Dendrology (3 credits)

Hours: 1 classroom + 0 lab/studio
Prerequisites: BIO 151.
Co-requisites: BIO 312L.
Taught: Fall only-even years
 Identification and vegetational aspects of woody plants, especially those of eastern U.S.

BIO 312L Dendrology Laboratory (0 credits)

Hours: 0 classroom + 6 lab/studio
Co-requisites: BIO 312.
Taught: Fall only-even years
 Laboratory to accompany BIO 312. Field trips.

BIO 313 General Botany (4 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: BIO 151.

Co-requisites: BIO 313L.

Taught: Spring only

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

BIO 313L General Botany Laboratory (0 credits)

Hours: 0 classroom + 4 lab/studio

Co-requisites: BIO 313.

Taught: Spring only

Laboratory to accompany BIO 313. Field trips.

BIO 320 Entomology (4 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: BIO 151.

Co-requisites: BIO 320L.

Taught: Fall only-even years

Anatomy, physiology, ecology, behavior, life cycles, classification, and economic effects of insects.

BIO 320L Entomology Laboratory (0 credits)

Hours: 0 classroom + 4 lab/studio

Co-requisites: BIO 320.

Taught: Fall only-even years

Laboratory to accompany BIO 320.

BIO 342 Biometry (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 151, BIO 151L, and STA 205.

Taught: Fall and spring

Statistical techniques for biological sciences. Fundamental experimental design, exploratory data analysis, parametric and non-parametric tests, and selected multivariate procedures as applied to biological data. Use of statistical software.

BIO 349 Genetics (4 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 291W and CHE 121.

Co-requisites: BIO 349L.

Taught: Fall and spring

Essential concepts in genetics and genomics; DNA and chromosomes, DNA replication, recombination and repair, mitosis and meiosis, Mendelian and non-Mendelian genetics, epigenetics, gene expression, and bioinformatics.

BIO 349L Genetics Laboratory (0 credits)

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 349.

Taught: Fall and spring

Laboratory to accompany BIO 349. Hands-on experience with basic genetics, bioinformatics, and molecular biology techniques.

BIO 358 Evolution of Organisms (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 349.

Taught: Fall and spring

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

BIO 360 Advanced Biology of the Cell (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in BIO 151 and CHE 121.

Taught: Spring only

Structure and function of cellular organelles; role of energy, membranes, nucleic acids, and proteins in cellular regulation; nature of nerve impulse.

BIO 374 Biomathematics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 151, MAT 112 or 129 and STA 205.

Taught: Fall only-even years

Application of basic mathematical models to biological topics such as population growth, Hardy-Weinberg principles and population genetics, competition and predation. Mathematical models include curve fitting, discrete and continuous models, separable differential equations and individual based models.

BIO 380 Human Cadaver Dissection (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: BIO 151 or BIO 208, and consent of instructor.

Taught: Summer only

Preparation of human cadavers for use in anatomy labs via surgical techniques of sharp and blunt dissection. This course is designed to enhance the student's knowledge of anatomy but is not intended as a replacement for an anatomy course.

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

Hours: 1-2 classroom + 0 lab/studio

Prerequisites: BIO 151 and consent of instructor.

Taught: Fall, spring, and summer

Experiential learning at institutions, universities, or businesses specializing in a biological field. Course may be repeated for new externship project; up to 4 semester hours may be earned in this course. For students majoring or minoring in biological or environmental sciences.

BIO 396 Practicum: Veterinary Medicine (1-2 credits)

Hours: 0 classroom + 4 lab/studio

Prerequisites: BIO 151 and consent of instructor and a local veterinarian.

Taught: Fall and spring

Work with a veterinarian specializing in large/small animals to learn skills and acquire practical information about this profession; up to 4 semester hours may be earned in this course. For pre-veterinary students.

BIO 399 Techniques of the Biological Sciences (1-2 credits)

Hours: 0 classroom + 3-6 lab/studio

Prerequisites: BIO 150 and consent of instructor prior to registration.

Taught: Fall, spring, and summer

Experience in media preparation; in herbarium, museum, and field techniques; in use of laboratory equipment; or in other practical facets of biology. Topics decided upon in consultation between student and instructor. Up to 4 semester hours may be earned in this course.

BIO 400 Advanced Molecular Biology (4 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: BIO 349 and CHE 311.

Co-requisites: BIO 400L. CHE 482 recommended.

Taught: Fall only

Introduction to principles of modern molecular biology; DNA and RNA structure and synthesis; protein synthesis; gene structure, expression, and regulation; recombinant DNA techniques; plant and animal models; transgenics; contemporary bioethics issues.

BIO 400L Advanced Molecular Biology Laboratory (0 credits)

Hours: 0 classroom + 4 lab/studio

Co-requisites: BIO 400.

Taught: Fall only

Laboratory to accompany BIO 400. DNA and RNA purification; DNA cloning and restriction enzyme analysis; plasmid vector screening and purification; Southern blotting; hybridization; polymerase chain reaction (PCR); bacterial cell transformation; fusion proteins.

BIO 402 Advanced Neurobiology (4 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 291W or PSY 311.

Co-requisites: BIO 402L.

Taught: Spring only-even yrs

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

BIO 402L Advanced Neurobiology Laboratory (0 credits)

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 402.

Taught: Spring only-even yrs

Laboratory to accompany BIO 402.

BIO 404 Herpetology (4 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 151. BIO 300 or BIO 303 recommended.

Co-requisites: BIO 404L.

Taught: Spring only-odd yrs

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

BIO 404L Herpetology Laboratory (0 credits)

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 404.

Taught: Spring only-odd yrs

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

BIO 406 Ecosystem Ecology (4 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 304.

Co-requisites: BIO 406L.

Taught: Fall only-even years

Interactions among living and nonliving components of ecosystems; ecosystem functions, services, and processes; trophic dynamics; temporal and spatial dynamics; climate change; pollution; ecosystem techniques and methods in field and lab.

BIO 406L Ecosystem Ecology Laboratory (0 credits)

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 406.

Taught: Fall only-even years

Laboratory to accompany BIO 406.

BIO 407 Ornithology (4 credits)

Hours: 2 classroom + 0 lab/studio

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

Co-requisites: BIO 407L.

Taught: Spring only-even yrs

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

BIO 407L Ornithology Laboratory (0 credits)

Hours: 0 classroom + 4 lab/studio

Co-requisites: BIO 407.

Taught: Spring only-even yrs

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

BIO 409 Biogeography (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 304.

Taught: Spring only-odd yrs

Present and past geographical distribution of organisms.

BIO 410 Conservation Biology (4 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 304.

Co-requisites: BIO 410L.

Taught: Spring only-even yrs

Study of biological diversity and the modern extinction crisis: history, ecology and evolutionary biology, population genetics, wildlife and environmental management.

BIO 410L Conservation Biology Laboratory (0 credits)

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 410.

Taught: Spring only-even yrs

Laboratory to accompany BIO 410.

BIO 422 Limnology (4 credits)

Hours: 2 classroom + 0 lab/studio

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

Co-requisites: BIO 422L.

Taught: Variable, check with department

Physical, chemical, and biological properties of inland waters; organization of aquatic communities, phytoplankton, zooplankton, benthos, trophic dynamics, and eutrophication; limnological methods and techniques.

BIO 422L Limnology Laboratory (0 credits)

Hours: 0 classroom + 4 lab/studio

Co-requisites: BIO 422.

Taught: Variable, check with department

Laboratory to accompany BIO 422. Field trips.

BIO 425 Mammalian Anatomy and Physiology I (4 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 291W and CHE 121; or consent of instructor.

Co-requisites: BIO 425L.

Taught: Fall only

Anatomical, histological, and physiological mechanisms of skeletal, muscular, and nervous systems. First semester of a one-year course; students should follow this course with BIO 426.

BIO 425L Mammalian Anatomy and Physiology I Laboratory (0 credits)

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 425.

Taught: Fall only

Laboratory to accompany BIO 425.

BIO 426 Mammalian Anatomy and Physiology II (4 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 425 or consent of instructor.

Co-requisites: BIO 426L.

Taught: Spring only

Regulation of physiological processes. Continuation of BIO 425.

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

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 426.

Taught: Spring only

Laboratory to accompany BIO 426.

BIO 430 Immunology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 302 and BIO 302L.

Taught: Spring only-odd yrs

Biology of the immune response.

BIO 430L Immunology Laboratory (1 credit)

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 430.

Taught: Spring only-odd yrs

Laboratory to accompany BIO 430.

BIO 440 Animal Behavior (4 credits)

Hours: 3 classroom + 0 lab/studio

Prereq OR Co-reg: BIO 291W or PSY 311.

COREQ: BIO 440L.

Taught: Spring only-odd yrs

Nervous systems and neurophysiology; classification, genetics, evolution, and ecology of behavior; developmental and social behavior.

BIO 440L Animal Behavior Laboratory (0 credits)

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 440.

Taught: Spring only-odd yrs

Laboratory to accompany BIO 440.

BIO 441 Animal Physiological Ecology (4 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 304.

Co-requisites: BIO 441L.

Taught: Fall only-odd years

Internal adjustments by animals to physical changes at the organism-environment interface. Influence of the physical and biological characteristics of the external milieu on geographic, evolutionary, and temporal distribution of animals. Energetics, homeostasis, and adaptation, including role of behavior.

BIO 441L Animal Physiological Ecology Laboratory (0 credits)

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 441.

Taught: Fall only-odd years

Laboratory to accompany BIO 441.

BIO 446 Plant Physiology (4 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 151 and CHE 121.

Co-requisites: BIO 446L.

Taught: Spring only-odd yrs

Photosynthesis, cellular respiration, carbohydrate and protein metabolism, mineral nutrition, hormonal controls, and related topics in physiology of green plants.

BIO 446L Plant Physiology Laboratory (1 credit)

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 446.

Taught: Spring only-odd yrs

Laboratory to accompany BIO 446.

BIO 452 Cancer Genetics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 291W and BIO 349.

Taught: Fall only-even years

Molecular and cellular bases of cancer; genetic changes that disrupt cell division, chromosome stability, cell movement, cell communication, and a variety of other essential cellular processes toward cancer development.

BIO 455 Scanning Electron Microscopy (3 credits)

Hours: 0 classroom + 6 lab/studio

Prerequisites: C- or better in BIO 151 or consent of instructor.

Taught: Spring only

Lecture-laboratory; theory and applications; phase contrast, polarizing, and transmission microscopes discussed for comparative purposes.

BIO 460 Introduction to Marine Biology (4 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: BIO 151 and BIO 291W.

Taught: Variable, check with department

Survey of physical, chemical, and biological oceanography; marine ecology, primary productivity, and biodiversity. Required field trip to marine research laboratory.

BIO 461 Ecology and Geology of Coral Reefs (4 credits)

Hours: 0 classroom + 3 lab/studio

Prerequisites: Declared major at or above the sophomore level in a natural science and consent of instructor.

Taught: Variable, check with department

Ecological and geological processes in reef ecosystems. Benthic and pelagic biotic communities, reef development and erosion, sedimentation, ancient and modern reefs, responses to environmental change. Required field trip to marine research laboratory.

BIO 462 Tropical Ecology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 304.

Taught: Spring only-even yrs

Unique features of tropical ecosystems, abiotic characteristics, gap dynamics biodiversity, plant-animal interactions, economic importance of tropical forests, causes and consequences of tropical deforestation. BIO 303 recommended.

BIO 463 Tropical Ecology Laboratory (1 credit)

Hours: 0 classroom + 10 lab/studio

Prerequisites: BIO 151. BIO 462 recommended.

Taught: Variable, check with department

Practical experience in studying tropical biota. Taught during spring break at location in tropics every other year.

BIO 465 Regional Biology (3-4 credits)

Hours: 3-4 classroom + 0 lab/studio

Prerequisites: C- or better in BIO 304 and consent of instructor.

Taught: Variable, check with department

Intensive study of flora and/or fauna of a particular region. May be repeated once for a different region.

BIO 466 Animal Physiology (4 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 349 and CHE 310.

Co-requisites: BIO 466L.

Taught: Spring only

Introduction to physiological processes of animals with emphasis on mammalian systems.

BIO 466L Animal Physiology Laboratory (0 credits)

Hours: 0 classroom + 3 lab/studio

Co-requisites: BIO 466.

Taught: Spring only

Laboratory to accompany BIO 466. Anatomy and histology of animal systems, and application of physiology concepts.

BIO 467 Endocrinology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 151 and CHE 310.

Taught: Fall only-odd years

Human endocrine system, hormonal control of body processes, and hormonal disorders.

BIO 470 Medical Microbiology (4 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 302.

Co-requisites: BIO 470L.

Taught: Fall only-even years

Pathogenic bacteria and viruses; techniques for isolation, identification, and control of specific disease agents; functions of the immune response in preventing and promoting disease.

BIO 470L Medical Microbiology Laboratory (0 credits)

Hours: 0 classroom + 2 lab/studio

Co-requisites: BIO 470.

Taught: Fall only-even years

Laboratory to accompany BIO 470.

BIO 475 Virology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 302.

Taught: Fall only-odd years

Classification, chemical composition, morphology, genetics, and replication of viruses, action of physical and chemical agents on viruses; host response to viral infection.

BIO 491 Comprehensive Examination (0 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: 20 hours of upper-division courses in biological sciences.

Taught: Fall, spring, and summer

Requires the submission of a program reflection and a writing sample from an upper-division course as well as completion of an examination of general concepts in biological sciences. (Pass/Fail)

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

Hours: 0 classroom + 3-9 lab/studio

Prerequisites: BIO 291W and consent of instructor.

Taught: Fall, spring, and summer

Development and completion of a scientific research project chosen in consultation with instructor. Final project report is required. Up to 6 semester hours may be earned in this course. For students majoring or minoring in biological sciences and especially for those planning further study in graduate school.

BIO 494 Topics: Biological Science (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Junior or senior standing in biological sciences.

Taught: Variable, check with department

In-depth study of specialized subject matter. May be repeated for credit once when topic varies.

BIO 496 Assistant: Biology Undergraduate Laboratory (1-2 credits)

Hours: 0 classroom + 2-4 lab/studio

Prerequisites: BIO 150, BIO 151, overall GPA of at least 3.00, and consent of instructor prior to registration.

Taught: Fall, spring, and summer

Participation in planning, setting-up, teaching, conducting reviews, and testing in an undergraduate laboratory course. For students majoring or minoring in biological sciences. Up to 4 semester hours may be earned in this course.

Business Informatics Courses (BIS)

BIS 275 Business Process Analysis (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

This class will introduce students to the underlying concepts and tools for business process analysis. Organizations now, more than ever, value cross-functional business process perspectives when mining and analyzing data for business decisions.

BIS 300 Management Information Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior standing, STA 212 or STA 205 and demonstrated competency in Word, Excel and PowerPoint, e.g., completion of INF 101 or equivalent transfer work or placement.

Taught: Fall, spring, and summer

Principles of MIS designed to introduce students to the fundamentals of Management Information Systems and to apply problem-solving skills in Excel, Access, and Web development.

BIS 305 Advanced Business Programming (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: INF 110.

Taught: Fall only

Computer software design and programming in an applications development environment; systems design, programming techniques, and language syntax for developing computer based business systems; programming system methodologies.

BIS 310 Information Systems Analysis (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: INF 110 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 111 Problem Solving and Creativity (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, winter, spring and summer

This class will introduce students to the conceptual models (scripts, templates, etc.) used in understanding how we think and therefore how to stimulate thinking. Students will be asked to apply tools and techniques both individually and in groups. Tools and techniques will be

applied to legitimate problems in a problem based learning environment.

General education credit: Individual and Society (pilot)

BIS 330 IT Project Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior standing or consent of chair.

Taught: Fall and spring

This course provides students knowledge and skills pertaining to IT Project Management. It exposes students to the knowledge requirements for managing information technology projects and fosters development of skills pertaining to the use of computer software for project management.

BIS 357 Enterprise Resource Planning Using SAP (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIS 300 or permission of the department.

Taught: Spring only-even yrs

Enterprise Resource Planning Using SAP. The class provides a basic understanding of business processes and integrates the knowledge from other functional areas such as marketing, finance, and accounting. Students will gain an appreciation for the role of an enterprise system in managing business processes spanning multiple functional perspectives.

BIS 380 Quantitative Analysis with Excel (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: INF 101 (or equivalent), ACC 200, STA 212, or permission of instructor.

Taught: Spring only

Business decisions require the basic skills of analyzing data to understand the problem more completely and to produce better answers. The business environment uses tools and techniques to accomplish this analysis. This course is designed to introduce students to those tools and techniques and how they can be automated.

BIS 382 Principles of Information Security (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIS 300 or equivalent.

Taught: Fall only

An introduction to the various technical and administrative aspects of Information Security and Assurance. This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features.

BIS 394 Topics: Information Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

BIS 399 Independent Study (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: junior standing, declared BIS minor or business major or College of Informatics major or permission of the BIS department.

Taught: Variable, check with department

Student investigation of a topic or completion of a project. Meeting times arranged with instructor.

BIS 402 Programming for E-Business (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIS 305 or equivalent; junior standing.

Taught: Variable, check with department

Employ technologies, tools, and practices for development of corporate Intranets and the Internet for information management and electronic commerce; coverage of internet working technologies, site design, content development languages and components, and data management techniques; development of web-based sites for business and commercial operations.

BIS 420 Business Intelligence & Enterprise Applications (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior Standing; certified major in business informatics or consent of department.

Taught: Variable, check with department

This course explores business intelligence concepts and technologies and their application in business organizations. It also focuses on enterprise systems that facilitate the planning and use of organizational databases to implement decision support systems, data warehousing and data mining systems and executive support systems to improve organizational performance.

BIS 430 Workflow Design and Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: declared BIS minor, or certified business major or College of Informatics major or permission of the BIS department.

Taught: Variable, check with department

This course provides learners a managerial introduction to ideas pertaining to the analysis, design and management of both organizational and inter-organizational business processes. It focuses on workflow management issues at the individual, group and organizational levels. Business methodologies and practices from industry such as business process reengineering-

ing, customer relationship management, and supplier chain management are used to contextualize theoretical ideas pertaining to process analysis and workflow management. The relationship between process innovation methods and strategic business models is also explored and learners are exposed to software and optimization tools pertaining to process modeling and workflow simulation.

BIS 435 Database Management Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

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

Taught: Fall only

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

BIS 440 Global Information Technology Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior standing; certified major in business informatics or consent of instructor.

Taught: Variable, check with department

This course provides insight into issues relating to international information systems that serve global markets and facilitate expansion and entry of businesses into global information systems and the management of international outsourcing projects are also emphasized. Cross-cultural and ethical issues pertaining to international information systems are emphasized.

BIS 485 Strategic Information Systems Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

This course enables future managers of MIS to better utilize information technologies for competitive advantage. It also focuses on managerial techniques for setting the direction for organizational IT resource planning and the development of IT policies and strategies for complex business environments. By integrating pertinent theories and business cases the following topics will be explored: effects of IT on competition;

BIS 494 Topics: Information Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Senior standing; certified major in business informatics.

Taught: Variable, check with department

Selected topics in computer based information systems. Offered periodically with topics announced in advance. Open only to students

certified as majoring in information systems. May be repeated to a maximum of 6 semester hours.

BIS 499 Independent Study: Information Systems (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: senior standing; declared BIS minor, or certified business major, or College of Informatics major, or permission of the BIS department.

Taught: Variable, check with department

Student investigation of a topic or completion of a project. Meeting times arranged with instructor.

BIS 594 Topics in Business Informatics (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Varies by topic.

Taught: Variable, check with department

Topics on business analytics and other areas of business informatics. Topics vary by semester. Repeatable for a maximum of up to 6 semester hours when topics vary.

MBI 599 Independent Study (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

Independent project or intensive study/research with faculty guidance. Open only by consent of advisor/instructor. Meeting times arranged with instructor.

Black Studies Courses (BLS)

BLS 100 Introduction to Black Studies - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

This course is designed to engage students in the study of the seven core areas of Black studies: Black History, Black Sociology, Black Religion, Black Economics, Black Politics, Black Psychology, and the humanities (Black Literature, Art, and Music).

General education credit: Cultural Pluralism

BLS 494 Topics: Black Studies (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

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

Business Courses (BUS)

BUS 101 Introduction to Business (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Basic knowledge of organizational structures, business functions, and types of business enterprises; assistance in decisions about majors and careers; socialization to expectations and behaviors associated with careers in business. Open only to students with fewer than 45 earned hours, or by consent of instructor.

BUS 101H Honors Introduction to Business (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Basic knowledge of organizational structures, business functions, and types of business enterprises; assistance in decisions about majors and careers; socialization to expectations and behaviors associated with careers in business. Open only to students with fewer than 45 earned hours, or by consent of instructor.

BUS 230 Legal Environment (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: sophomore standing.

Taught: Fall and spring

Concepts in legal environment; ethical considerations in business decisions; broad overview of judicial process, legal systems, contracts, torts, environmental and international issues, employment law, and consumer protection.

BUS 260 Selected Business Topics in International Settings (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing and others as determined by instructor.

Taught: Variable, check with department

Learning experiences outside the United States sponsored by Cooperative Center for Study Abroad, the COB's International Business Center or the Office of International programs. Includes preparatory assignments, international travel and, if applicable, follow-up meetings or assessment activities.

BUS 300 Career Enhancement (1 credit)

Hours: 3 classroom + 0 lab/studio

Prerequisites: junior standing. Graded pass/fail.

Taught: Variable, check with department

Designed to assist students planning careers in business with the transition from college to the workforce.

BUS 330 Ethics: Managerial Decision Making (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BUS 230 and junior standing.

Taught: Fall and spring

Application of ethics to decision-making in business; case method, discussion and presentations. BUS 230 and junior standing.

BUS 360 Selected Business Topics in International Settings (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: junior standing and other as determined by topic and instructor.

Taught: Variable, check with department

Learning experience outside the United States sponsored by the Cooperative Center for Study Abroad, the COB's International Business Center or the Office of International Programs. Includes preparatory assignments, international travel and, if applicable, follow-up meetings or assessment activities.

BUS 394 Topics: Legal Environment (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: junior standing.

Taught: Variable, check with department

Topics vary and will be listed in the Schedule of Classes. Repeatable to 6 semester hours.

BUS 396 Internship: Business (2-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior or senior standing and consent of instructor; declared major in any bachelor's program.

Taught: Variable, check with department

Supervised non-paid work experience at corporations in Greater Cincinnati related to student major or minor, and coordinated by a member of the participating organization and a member of the department faculty. Interested students must submit applications to the department chair.

College of Arts and Sciences Courses (CAS)**CAS 101 Cultivating Academic Success (0-1 credits)**

Hours: 0-1 classroom + 0 lab/studio

Prerequisites: Permit required by the College of Arts & Sciences Advising Center.

Taught: Variable, check with department

This course is designed for students to cultivate academic skills that will assist them in becoming successful in the College of Arts & Sciences. It will provide information on topics with which many students constantly struggle such as time management, study and test taking strategies, money management and grade management.

Cooperative Education Courses (CEP)**CEP 101 Career Development (2 credits)**

Hours: 2 classroom + 0 lab/studio

Prerequisites: Completion of one semester of college coursework.

Taught: Fall and spring

Comprehensive overview of the career planning process; techniques of self assessment and career exploration; skills of decision making and job search.

CEP 300 Cooperative Education (1-3 credits)

Hours: 0 classroom + variable lab/studio

Taught: Fall, spring, and summer

Supervised work experience relating to a student's academic major; employment learning experience planned, supervised, and coordinated by employer, faculty coordinator, and a member of the Career Services staff. Cooperative Education is open to most majors on campus. Students must complete an informational session in the Career Services prior to enrollment. Academic credits are awarded for the cooperative work experience on a variable scale.

Chemistry Courses (CHE)**CHE 102 Introduction to Chemistry (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: A minimum score of 19 on the ACT math section or equivalent.

Taught: Fall and spring

Selected essential topics in chemistry, including solutions, reactions, stoichiometry, and properties of gases, liquids, and solids. Prerequisite for CHE 115 and CHE 120 for those who did not study chemistry in high school or are not prepared for CHE 115 or CHE 120. NOT a general education course. (Formerly CHE 110)

CHE 105 Discovering Chemistry with Laboratory - SL (4 credits)

Hours: 3 classroom + 2 lab/studio

Taught: Fall and spring

Integrated lecture and laboratory; basic principles of chemistry and their applications in daily life; promotion of reasoning and problem-solving skills by utilizing computer-based technologies and hands-on, discovery/inquiry, and cooperative learning approaches. For all non-science students and students majoring in education. Cannot be taken for credit by students who have passed CHE 112.

General education credit: Natural Science

CHE 112 Chemistry and Society - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Basic principles of chemistry and their applications in society. For students not majoring in science. Enrollment in CHE 112L is recommended but not required. Cannot be taken for credit by students who have passed CHE 105.

General education credit: Natural Science

CHE 112L Chemistry and Society Laboratory - SL (1 credit)

Hours: 0 classroom + 2 lab/studio

Prereq OR Co-req: CHE 112.

Taught: Fall and spring

Simple laboratory techniques in experiments designed to study the properties of model compounds and consumer products; synthesis and analysis of common materials.

General education credit: Natural Science

CHE 115 Physiological Chemistry - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

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

Co-requisites: CHE 115L.

Taught: Fall, spring, and summer

General, organic, and biological chemistry of the body. Not applicable toward a major or minor in the natural sciences.

General education credit: Natural Science

CHE 115L Physiological Chemistry Laboratory - SL (1 credit)

Hours: 0 classroom + 2 lab/studio

Co-requisites: CHE 115.

Taught: Fall, spring, and summer

Laboratory examination of chemical and biochemical principles.

General education credit: Natural Science

CHE 120 General Chemistry I - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

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

Co-requisites: CHE 120L.

Taught: Fall and spring

Principles of chemistry; physical and chemical properties of elements and compounds.

General education credit: Natural Science

CHE 120L General Chemistry I Laboratory - SL (1 credit)

Hours: 0 classroom + 3 lab/studio

Co-requisites: CHE 120.

Taught: Fall and spring

Experiments describing principles of chemistry as well as those describing physical and

chemical properties of elements and compounds.

General education credit: Natural Science

CHE 120H Honors General Chemistry I - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: High school chemistry and a minimum scores of 25 on the ACT math section and 26 on the ACT english section or equivalent.

Co-requisites: CHE 120HL.

Taught: Fall only

Principles of chemistry; physical and chemical properties of elements and compounds.

General education credit: Natural Science

CHE 120HL Honors General Chemistry I Lab - SL (1 credit)

Hours: 0 classroom + 3 lab/studio

Co-requisites: CHE 120H.

Taught: Fall only

Experiments describing principles of chemistry as well as those describing physical and chemical properties of elements and compounds.

General education credit: Natural Science

CHE 121 General Chemistry II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CHE 120 or CHE 120H.

Taught: Spring and summer

Continuation of CHE 120. Enrollment in CHE 121L is strongly encouraged but is not required.

CHE 121L General Chemistry II Laboratory (1 credit)

Hours: 0 classroom + 3 lab/studio

Prerequisites: C- or better in CHE 120L or CHE 120HL.

Prereq OR Co-req: CHE 121.

Taught: Spring and summer

Continuation of CHE 120L.

CHE 121H Honors General Chemistry II - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CHE 120H or consent of instructor.

Co-requisites: CHE 121HL.

Taught: Spring only

Continuation of CHE 120H.

General education credit: Natural Science

CHE 121HL Honors General Chemistry II Lab - SL (1 credit)

Hours: 0 classroom + 3 lab/studio

Prerequisites: C- or better in CHE 120HL.

Co-requisites: CHE 121H.

Taught: Spring only

Continuation of CHE 120HL.

General education credit: Natural Science

CHE 125 Introduction to Chemistry & Biochemistry (1 credit)

Hours: 1 classroom + 0 lab/studio

Co-requisites: CHE 120.

Taught: Fall and spring

Introduction to chemistry and biochemistry majors, careers in chemical and related fields, introduction to department research opportunities.

CHE 292 Introductory Chemical Research (0 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Fall and spring

Introduction to chemical research by participating in a special project or original research directed by a member of the chemistry faculty. Course intended for science majors interested in chemistry research but not ready or able to enroll in CHE 492. May only be taken once; pass/fail grade only.

CHE 305 Main Group Chemistry (1 credit)

Hours: 1 classroom + 0 lab/studio

Prerequisites: C- or better in CHE 121.

Taught: Variable, check with department

Detailed study of the elements found in groups 1,2, 13-18; sources, reactions, representative compounds.

CHE 310 Organic Chemistry I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CHE 121.

Taught: Fall and spring

Introduction to the chemistry of carbon compounds; bonding, structure, and introductory analysis and synthesis.

CHE 310L Organic Chemistry I Laboratory (1 credit)

Hours: 0 classroom + 3 lab/studio

Prerequisites: C- or better in CHE 121L.

Prereq OR Co-req: CHE 310.

Taught: Fall and spring

Introduction to the laboratory practice of organic chemistry; techniques and separations.

CHE 311 Organic Chemistry II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CHE 310.

Taught: Spring and summer

Chemistry and properties of organic substances; reactions of functional groups, synthesis, and spectroscopic analysis.

CHE 311L Organic Chemistry II Laboratory (1 credit)

Hours: 0 classroom + 3 lab/studio

Prerequisites: 310L.

Prereq OR Co-req: CHE 311.

Taught: Spring and summer

Reactions of organic compounds; identification of unknowns; synthesis.

CHE 320 Inorganic Chemistry (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CHE 310.

Co-requisites: CHE 320L.

Taught: Spring only

Chemistry of the elements and their compounds; coordination, bioinorganic and materials chemistry. Selected other topics.

CHE 320L Inorganic Chemistry Laboratory (2 credits)

Hours: 0 classroom + 6 lab/studio

Prerequisites: C- or better in CHE 310L.

Co-requisites: CHE 320.

Taught: Spring only

Advanced laboratory synthesis, purification, and characterization of inorganic compounds; application of techniques in primary literature.

CHE 325 Organometallic Chemistry (1 credit)

Hours: 1 classroom + 2 lab/studio

Prerequisites: C- or better in both CHE 310 and CHE 310L.

Taught: Variable, check with department

Properties and uses of organometallic compounds; synthesis, purification, and characterization of organometallic compounds using current methods.

CHE 330 Chemistry of Materials (1 credit)

Hours: 1 classroom + 2 lab/studio

Prerequisites: C- or better in CHE 121.

Taught: Variable, check with department

Introduction to the chemistry of materials. Structure-property relations, including self-organization, magnetic properties, and nanostructures. Introduction to characterization methods used in the chemistry of materials.

CHE 340 Analytical Chemistry (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CHE 121.

Co-requisites: CHE 340L.

Taught: Fall only

Chemical and stoichiometric principles; gravimetric, volumetric, and spectrophotometric analysis.

CHE 340L Analytical Chemistry Laboratory (2 credits)

Hours: 0 classroom + 6 lab/studio

Prerequisites: CHE 121L.

Co-requisites: CHE 340.

Taught: Fall only

Quantitative determination of the elements; traditional chemical methods and some instrumental methods of analysis.

CHE 345 Electronics for Scientists and Engineers (1 credit)*Hours: 1 classroom hour; 0 lab/studio**Prerequisites: CHE 340 and CHE 350 OR EGT 161.**Taught: Summer only*

Study of analog and digital circuitry, including the usage of Arduino and raspberry pi technology. Application of these technologies for the design and construction of basic scientific instrumentation for chemical analysis.

CHE 350 Instrumental Analysis (2 credits)*Hours: 2 classroom + 0 lab/studio**Prerequisites: CHE 340 and CHE 340L.**Co-requisites: CHE 350L.**Taught: Spring only*

Analytical techniques involving modern chemical instruments.

CHE 350L Instrumental Analysis Laboratory (2 credits)*Hours: 0 classroom + 6 lab/studio**Co-requisites: CHE 350.**Taught: Spring only*

Experiments designed to familiarize students with modern analytical instruments.

CHE 360 Physical Chemistry I (3 credits)*Prerequisites: C- or better in CHE 121 and MAT 229 or equivalent.**Corequisites: PHY 222 or 213.**Taught: Fall only*

Classical thermodynamics, reaction equilibria, phase equilibria, and electrochemical systems.

CHE 361 Physical Chemistry II (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: CHE 360 and MAT 228 or MAT 229 and PHY 222 or PHY 213.**Taught: Spring only*

Kinetic molecular theory of gases, chemical kinetics, transport processes, elementary quantum chemistry, and spectroscopy.

CHE 362L Physical Chemistry Laboratory (2 credits)*Hours: 0 classroom + 6 lab/studio**Prereq OR Co-req: CHE 361.**Taught: Spring only*

Experiments in thermodynamics, chemical kinetics, transport properties, spectroscopy, and elementary quantum chemistry.

CHE 365 Molecular Modeling (1 credit)*Hours: 1 classroom + 2 lab/studio**Prerequisites: C- or better in CHE 310.**Taught: Variable, check with department*

Introduction to computer-based molecular modeling using molecular mechanics, molecular orbital theory, and density functional theory. Calculation of equilibrium and transition-state geometries, spectroscopic properties, and reaction energies. Modeling of structures of

biopolymers and docking of ligands into protein binding sites.

CHE 391W Chemical Information and Writing - WC (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 101 or ENG 151H, Chemistry major and one upper division chemistry course.**Taught: Fall and spring*

Use and analysis of chemical information sources. Emphasis on specific writing methods used in chemistry such as abstracts, reports, grants and grant reviews.

*General education credit: Written Communication II***CHE 392 Advanced Laboratory Projects (1-3 credits)***Hours: 0 classroom + 3-9 lab/studio**Prerequisites: Consent of instructor.**Taught: Variable, check with department*

The study of published syntheses and other chemical reactions and experiments to develop usable protocols, procedures, or laboratory experiments. Directed by a member of the chemistry faculty. May be repeated for different lab courses for a total of no more than three credit hours. May not be used for the chemistry minor.

CHE 394 Topics: Chemistry (1-3 credits)*Hours: 1-3 classroom + 0 lab/studio**Prerequisites: C- or better in CHE 310 or consent of instructor.**Taught: Variable, check with department*

Various topics of interest in chemistry. Can be repeated for up to 6 hours as topics vary.

CHE 396 Practicum: Chemistry (1 credit)*Hours: 1 classroom + 0 lab/studio**Prerequisites: Consent of instructor and completion of the designated course with a grade of B or better.**Taught: Variable, check with department*

Participation in planning, teaching, and testing in a designated undergraduate chemistry course. Designed especially for students majoring in chemistry and in science education. Up to 2 semester hours may be earned in this course. Does not count toward a major or minor in chemistry.

CHE 399 Independent Study in Chemistry (1-3 credits)*Hours: 1-3 classroom + 0 lab/studio**Prerequisites: 20 semester hours of chemistry and consent of instructor.**Taught: Variable, check with department*

Independent survey of literature; written reports on selected topics. Repeatable for a maximum of 4 semester hours.

CHE 400 Chemistry Seminar (1 credit)*Hours: 1 classroom + 0 lab/studio**Prerequisites: CHE 391W and an additional 20 semester hours of chemistry.**Taught: Fall and spring*

Use of chemical literature searching and analysis techniques to prepare and present seminars and written reports.

CHE 410 Spectrometric Identification of Compounds (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in CHE 310.**Taught: Spring only-odd yrs*

Interpretation of data obtained by mass spectrometric analysis and by infrared, ultraviolet/visible, and nuclear magnetic resonance spectroscopic analyses as applied to the establishment of structure.

CHE 440 Environmental Chemistry (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in both CHE 311 and CHE 340.**Taught: Spring only-even yrs*

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

CHE 450 Advanced Chemical Analysis (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: CHE 340 and junior standing.**Taught: Fall only-even years*

Investigation of sample preparation, surface science, microfabrication and advanced electrochemical techniques required for advanced chemical analyses.

CHE 460 Molecular Spectroscopy (2 credits)*Hours: 2 classroom + 0 lab/studio**Prerequisites: C- or better in CHE 311, C- or better in CHE 350, C- or better in CHE 350L.**Co-requisites: CHE 460L.**Taught: Fall only-even years*

Principles of molecular spectroscopy, including group theory. Modern spectroscopic techniques and their applications.

CHE 460L Molecular Spectroscopy Laboratory (2 credits)*Hours: 0 classroom + 6 lab/studio**Co-requisites: CHE 460.**Taught: Fall only-even years*

Experiments using modern molecular spectroscopic techniques.

CHE 482 Biochemistry I (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in CHE 311.**Taught: Fall only*

Introduction to the chemistry of the molecules of life: carbohydrates, proteins, lipids; protein

structure and function; enzyme mechanism; membrane structure and function; introduction to metabolism.

CHE 482L Biochemistry I Laboratory (1 credit)

Hours: 0 classroom + 3 lab/studio

Prereq OR Co-req: CHE 482.

Taught: Fall only

Introduction to basic laboratory techniques and concepts in biochemistry, such as the preparation of buffers, spectroscopic determination of protein concentration, gel electrophoresis, column chromatography, and enzyme kinetics.

CHE 483 Biochemistry II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CHE 482.

Taught: Spring only

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

CHE 483L Biochemistry II Laboratory (1 credit)

Hours: 0 classroom + 3 lab/studio

Prerequisites: CHE 482L.

Co-requisites: CHE 483.

Taught: Spring only

Application of modern biochemical techniques in a research setting. Students will conduct experiments on various topics from defined categories, prepare a detailed plan using the scientific literature, perform the experiments independently, and present their findings in a formal report and poster presentation.

CHE 492 Research: Chemistry (1-3 credits)

Hours: 0 classroom + 6-18 lab/studio

Prerequisites: Consent of both instructor and chair of chemistry. Does not apply toward a minor in 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.

CHE 505 The History of Chemistry (2-3 credits)

Hours: 2-3 classroom + 0 lab/studio

Prerequisites: CHE 310.

Taught: Variable, check with department

Survey of chemistry's significance in ancient and modern times. Investigation of key individuals and concepts in chemistry of the past and present.

CHE 511 Natural and Medicinal Product Synthesis (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CHE 311.

Taught: Variable, check with department

Analysis and design of complex syntheses, including total synthesis of natural products; stereochemical aspects of synthesis; asymmetric synthesis; spectroscopy in structure elucidation.

CHE 512 Physical Organic Chemistry (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CHE 360 and a C- or better in CHE 311.

Taught: Variable, check with department

Current topics in spectroscopy, reaction mechanisms, and structure function correlations.

CHE 560 Quantum Mechanics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CHE 361 or PHY 361.

Taught: Variable, check with department

Principles of quantum mechanics, the hydrogen atom, variational methods, and simple perturbation theory. Same as PHY 460.

CHE 594 Topics in Chemistry (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

Discussion of topics in analytical, environmental, inorganic, nuclear, organic, and physical chemistry; chemistry-related topics: laboratory experience with operation and application of instruments and the computer. May be repeated as topics vary.

Chinese Courses (CHI)

CHI 101 Elementary Chinese - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Fundamentals; introduction to Chinese culture; basic skills in conversation, pronunciation, reading, and writing in pinyin (Romanized Chinese) and ideograms traditional and simplified.

General education credit: Culture and Creativity

CHI 102 Elementary Chinese II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CHI 101 or equivalent.

Taught: Spring only

Continuation of CHI 101; additional practice in conversation, pronunciation, reading, writing, and use of ideograms.

CHI 199 Independent Study: Chinese (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Variable, check with department

Practice in Chinese language

CHI 201 Intermediate Chinese I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CHI 102 or equivalent.

Taught: Variable, check with department

Review and extension of basic language skills learned in CHI 101 and CHI 102; reading and discussion of cultural, linguistic, and literary subject.

CHI 202 Intermediate Chinese II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CHI 201 or equivalent.

Taught: Variable, check with department

Continuation of grammar review and enhancement of language skills begun in CHI 201; consideration of cultural, linguistic, and literary subjects.

CHI 299 Independent Study: Chinese (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: CHI 101 and CHI 102.

Taught: Fall and spring

Intermediate practice in Chinese Language.

CHI 350 Methods of Teaching Chinese (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CHI 202 or equivalent.

Taught: Variable, check with department

Theoretical and practical considerations of teaching Chinese in American schools; required of all students seeking teaching certification in Chinese.

CHI 380 Topics in Advanced Chinese (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CHI 202 or consent of instructor.

Taught: Variable, check with department

Advanced study of Chinese language, literature, and culture. May be repeated for credit when topics vary.

CHI 399 Topics in Advanced Chinese (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CHI 201.

Taught: Variable, check with department

Advanced level study and practice of Chinese language.

CHI 520 Readings in Chinese (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CHI 380 or equivalent.

Taught: Variable, check with department

Various literary, linguistic, cultural, and pedagogical topics. May be repeated for credit when topic varies.

Cinema Studies Courses (CIN)

CIN 200 Introduction to Cinema Studies (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring

Basic elements of movie form, narrative structure, and style; concepts of genre; strategies of analyzing and writing about cinema.

CIN 201 Survey of World Cinema (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring

Origins and development of cinema as an international medium of expression. Relation of form and content to specific global cultures and contexts.

CIN 202 Survey of US Cinema (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring

Origins and development of cinema as a multicultural medium of expression in the U.S. Relation of form and content to historical, economic, and cultural development in the U.S.

CIN 299 Independent Study (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
Directed study.

CIN 494 Studies in Cinema (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: CIN 200 or CIN 201 or CIN 202.

Taught: Variable, check with department
Advanced study of a particular genre, national cinema, director, or other topic in cinema studies. May be repeated for credit when topics vary.

Computer Information Technology Courses (CIT)

CIT 130 Information Technology Fundamentals (3 credits)

Hours: 2 classroom + 2 lab/studio
Prerequisites: C- or better in MAHD 099 or placement.
Taught: Fall and spring

Introduction to the organization of computers, operating systems, and networks; comparison of common operating systems; hands-on experience in PC construction and configuration; command-line usage of Windows and Unix/Linux systems; data representation; overview of the information technology industry and its societal context.

CIT 247 Networking Fundamentals (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CIT 130.
Taught: Fall and spring

Data link control, communications network techniques, network protocols (IP, TCP, UDP); planning and deploying a LAN; wireless networking; routing; security; introduction to Cisco IOS.

CIT 271 Windows Administration (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CIT 247 and INF 120.

Taught: Fall and spring
Organization of the Windows operating system; installation, configuration and recovery; scripting using batch files; user management; basic server administration and directory services.

CIT 292 Research Experience in CIT (0 credits)

Hours: 0 classroom + 0 lab/studio
Prerequisites: Varies.
Taught: Variable, check with department
Introduction to research in computer information technology by participation in a special project or research directed by an appropriate faculty member. Course intended for computer information technology majors interested in CIT research but not ready or able to enroll in more advanced research courses. Pass/fail grade only. Course may be repeated twice.

CIT 299 Independent Study (3 credits)

Hours: 0 classroom + 0 lab/studio
Prerequisites: consent of instructor.
Taught: Variable, check with department
Directed study.

CIT 371 Unix Systems (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in INF 120 and either CIT 247 or INF 284.
Taught: Fall and spring
Advanced usage and basic administration of Unix/Linux systems, including management of files, users and processes, tools for editing and pattern matching, shell scripting, and software installation.

CIT 383 Scripting I (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in INF 120, either MAT 185 or MAT 385 and either CIT 271 or CIT 371.
Taught: Fall and spring
Programming in a dynamically typed scripting language, including interfacing to operating system and network services and automation of common system administration tasks.

CIT 394 Intermediate Topics: Computer Information Technology (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: varies with topic (see Schedule of Classes).
Taught: Variable, check with department
Various topics in Computer Information Technology.

CIT 399 Independent Study (3 credits)

Hours: 0 classroom + 0 lab/studio
Prerequisites: consent of instructor.
Taught: Variable, check with department
Directed study.

CIT 430 Computer Forensics (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CIT 480.
Taught: Fall and spring
Computer and network forensics principles; incident response process; forensic duplication and analysis; reconstruction of computer activities; network-based evidence for intrusions; forensics tools.

CIT 436 Web Server Administration (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in INF 286 and CIT 371.
Taught: Spring only
Web server administration concepts; installing and configuring a web server; proxy server; name resolution; web server security and maintenance; server-side technologies and tools; monitoring and analyzing the web environment.

CIT 447 Network Design/Troubleshooting (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CIT 247.
Taught: Fall and spring
Network and transport protocols; switch and router configuration; network topologies, network design, and routing; VLANs; capacity planning and redundancy; routing protocols; wide-area networks; layer 2 and layer 3 troubleshooting; IPv4 and IPv6; network management and security.

CIT 451 Advanced Windows System Administration (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: C- or better in CIT 271.
Taught: Variable, check with department
Active directory configuration, network infrastructure configuration, application infrastructure configuration; specific topics include Active Directory and its security, Domain Name System, DHCP infrastructure, routing, remote access, advanced firewall and network access protection, IIS security, FTP, SMTP, Media Server.

CIT 465 Storage Administration (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CIT 371.

Taught: Variable, check with department

This course covers information storage and management, storage system environment, disks, RAID, logical volume management, storage networking fundamentals, direct attached storage, storage area networks, network attached storage, content addressed storage, storage virtualization, data backup and recovery.

CIT 470 Advanced Network and System Administration (3 credits)

Hours: 3 classroom + 0 lab/studio

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

Taught: Spring only

Administering networks of computer systems as a team; user account management and LDAP; network filesystems; e-mail servers; automated installs; help desk software and management; and data centers.

CIT 472 Database Administration (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in INF 282, CIT 271 and either INF 260 or CIT 383.

Taught: Fall only

Database administration concepts; procedural extensions to SQL; installing and configuring a database server; creating and configuring database instances; user management and security; backup and monitoring activities.

CIT 480 Securing Computer Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CIT 371.

Taught: Fall and spring

An introduction to the concepts and technologies of computer security, with a focus on the practical aspects of securing computers, including common security threats and computer crime, authentication, cryptography, malware, operating systems security, and network security.

CIT 481 Cybersecurity Capstone (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in STA 205 and INF 282 and CIT 480.

Taught: Variable, check with department

Advanced security topics including system hardening; cloud security; information assurance architectures; secure network design; and penetration testing. Students will research an advanced topic of their choice in information security and write a research paper on that topic.

CIT 483 Scripting II (3 credits)

Hours: 3 classroom + 0 lab/studio

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

Taught: Fall only

Advanced programming in a dynamically typed language, including techniques such as passing blocks, dynamic dispatch, and domain specific languages. The class will apply these techniques to IT applications, including interfacing to network services and parsing complex data formats like HTML and XML.

CIT 484 Network Security (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Grade of C- or better in CIT 480 and CIT 447.

Taught: Fall and spring

In-depth study of firewalls and intrusion detection/prevention systems; incident response; security protocols and VPNs; network server security; viruses and worms; wireless security; network security architecture and policy development.

CIT 494 Advanced Topics: Computer Information Technology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: varies with topic (see Schedule of Classes).

Taught: Variable, check with department

Various advanced topics in Computer Information Technology.

CIT 496 Senior Practicum (3 credits)

Hours: 0 classroom + 0 lab/studio

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

Taught: Fall and spring

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)

Hours: 0 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

CIT 500 Information Technology Fundamentals (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of MSCIT director.

Taught: Variable, check with department

Fundamentals of UNIX system administration, including use of the shell, users and groups, cron. Computer networking basics, including networking fundamentals, LAN switching, and IP routing.

CIT 501 Scripting (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: permission of MSCIT director.

Taught: Variable, check with department

Introduction to programming in a scripting language, including applications to both system administration and web development.

CIT 530 Computer Forensics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CIT 500 or consent of MSCIT director.

Taught: Fall and spring

Computer and network forensics principles; incident response process; forensic duplication and analysis; reconstruction of computer activities; network-based evidence for intrusions; forensics tools.

CIT 536 Web Server Administration (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CIT 500.

Prereq OR Co-req: CIT 501 or consent of MSCIT director.

Taught: Variable, check with department

Web server administration concepts; installing and configuring a web server; proxy server; name resolution; web server security and maintenance; server-side technologies and tools; monitoring and analyzing the web environment.

CIT 547 Network Design/Troubleshooting (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CIT 500 or consent of MSCIT director.

Taught: Variable, check with department

Network and transport protocols; switch and router configuration; network topologies, network design, and routing; VLANs; capacity planning and redundancy; routing protocols; wide-area networks; layer 2 and layer 3 troubleshooting; IPv4 and IPv6; network management and security.

CIT 551 Advanced Windows System Administration (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CIT 500.

Taught: Variable, check with department

Active directory configuration, network infrastructure configuration, application infrastructure configuration; specific topics include Active Directory and its security, Domain Name System, DHCP infrastructure, routing, remote access, advanced firewall and network access protection, IIS security, FTP, SMTP, Media Server.

CIT 565 Storage Administration (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CIT 547 or consent of MSCIT director.

Taught: Variable, check with department

This course covers information storage and management, storage system environment, disks, RAID, logical volume management, storage networking fundamentals, direct attached storage, storage area networks, network attached storage, content addressed storage, storage virtualization, data backup and recovery.

CIT 570 Advanced Network and System Administration (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CIT 501 and CIT 547 or consent of MSCIT director.

Taught: Variable, check with department

Administering networks of computer systems as a team; user account management and LDAP; network filesystems; e-mail servers; automated installs; help desk software and management; and data centers.

CIT 572 Database Administration (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CIT 500.

Prereq OR Co-req: CIT 501 or consent of MSCIT director.

Taught: Variable, check with department

Database administration concepts; procedural extensions to SQL; installing and configuring a database server; creating and configuring database instances; user management and security; backup and monitoring activities.

CIT 580 Securing Computer Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CIT 500 or consent of MSCIT director.

Taught: Fall and spring

An introduction to the concepts and technologies of computer security, with a focus on the practical aspects of securing computers, including common security threats and computer crime, authentication, cryptography, malware, operating systems security, and network security.

CIT 581 Cybersecurity Capstone (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CIT 580.

Taught: Variable, check with department

Advanced security topics including system hardening; cloud security; information assurance architectures; secure network design; and penetration testing. Students will research an advanced topic of their choice in information security and write a research paper on that topic.

CIT 583 Scripting II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CIT 500 and CIT 501 or consent of the MSCIT director.

Taught: Fall only

Advanced programming in a dynamically typed language, including techniques such as passing blocks, dynamic dispatch, and domain specific languages. The class will apply these techniques to IT applications, including interfacing to network services and parsing complex data formats like HTML and XML.

CIT 584 Network Security (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CIT 547 and CIT 580 or consent of MSCIT director.

Taught: Variable, check with department

In-depth study of firewalls and intrusion detection/prevention systems; incident response; security protocols and VPNs; network server security; viruses and worms; wireless security; network security architecture and policy development.

CIT 594 Intermediate Graduate Topics: Computer Information Technology (3 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: varies with topic (see Schedule of Classes).

Taught: Variable, check with department

Various intermediate graduate topics in Computer Information Technology.

CIT 596 CIT Practicum (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Consent of MSCIT director.

Taught: Variable, check with department

Students will work on information technology projects and make use of project management techniques that allow them to apply academic knowledge to real world situations. Course does not count as a regular elective in the MSCIT program.

CIT 599 Intermediate Independent Study (1-3 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: Regular admission to MSCIT program and consent of instructor.

Taught: Variable, check with department

Intermediate Independent Study.

Construction Management Courses (CMGT)**CMGT 101 Introduction to Construction Management (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

A general survey of the construction industry with its three major segments (Residential, Commercial, and Heavy/Civil.) This class pro-

vides an introduction to careers in the construction industry with an emphasis on the project phases, project participants and their interaction, and the importance of the construction industry to the US and global economies.

CMGT 120 Construction Materials and Methods I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prereq OR Co-req: CMGT 101.

Taught: Fall and spring

Properties, characteristics, and methods of installation of major construction materials used in the skeleton and shell construction of modern buildings including concrete, asphalt, structural steel, and masonry (Bricks and blocks). Physical and operational properties of these materials are to be investigated including their behavior under loading and their stress/strain performance.

CMGT 121 Construction Materials and Methods II (3 credits)

Hours: 2 classroom + 2 lab/studio

Prereq OR Co-req: CMGT 101 and CMGT 120.

Taught: Fall and spring

Properties, characteristics, methods and practices involved in the finishing of building construction including wood construction, roofing and cladding, thermal and moisture protection, glazing, interior partitions, doors and windows, flooring, and wall and ceiling covering. Applications of these materials to residential and commercial construction will be investigated.

CMGT 122 Architectural Design and Drafting (2 credits)

Hours: 1 classroom + 2 lab/studio

Prerequisites: CMGT 101.

Taught: Fall and spring

Techniques and procedures used in designing and drafting working drawings for residential structures.

CMGT 220 Plane Surveying (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: CMGT 101 and MAT 119.

Taught: Fall and spring

Procedures involved in the proper operation and care of traditional and modern surveying equipment and instruments. Students learn about accurate generation, interpretation, and presentation of surveying data through lab reports and layout plans.

CMGT 222 Architectural Drafting and CAD (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 121.

Taught: Fall and spring

Techniques and procedures used for manual and computerized drafting and detailing. Students are introduced to proper dimensioning, layering, and graphical presentations using

architectural CAD including the production of 2 and 3 dimensional graphical representations of architectural and structural details.

CMGT 225 Construction Safety (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 121.

Taught: Fall and spring

Maintaining and operating a safe work environment on construction sites through the understanding and application of the OSHA standards as represented in the 29 CFR 1926. Students learn about hazard identification and mitigation through a properly designed safety program including recording and reporting of construction accidents.

CMGT 228 Soil and Foundation Interaction (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 121, MAT 119, GLY 120, and GLY 120L.

Taught: Fall and spring

Understanding the physical and operational properties of different soils including visual identification and inspection, and lab testing. Students learn about soil classifications and structural performance under different types of loads, the interaction between different soil types, and proper selection of the suitable type of foundation.

CMGT 301 Cooperative Construction Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 222 and CMGT 225.

Taught: Fall, spring, and summer

Supervised, objective-based work experience related to the construction management major. This experience is to be coordinated by faculty, employer, coop coordinator, and student. Minimum of 20 hours on the job per week (300 hours per semester) are required of every student. Open to all students majoring in construction management. Applications are to be made to the Department of Construction Management.

CMGT 303 Construction Contracts, Documents, and Administration (3 credits)

Hours: 3 classroom + 0 lab/studio

Prereq OR Co-req: CMGT 301.

Taught: Fall and spring

Review of the project life cycle during its phases of development including different project parties and their interaction. Students learn about project delivery methods and their applicability to a variety of project structuring and teaming agreements. Students are exposed to project scope coordination and verification through a thorough review of the project documents including drawings, specifications, and regulatory requirements including

insurance and bonding, as well as bidding procedures and contract termination.

CMGT 305 Mechanical Systems for Construction (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 222.

Taught: Fall and spring

A review of the fundamental principles and materials of plumbing, heating, ventilating and air conditioning systems. Students will be exposed to the selection and sizing of different types of piping and HVAC equipment, including calculations of quantities from drawings and rules of thumb for sizing, capacities, and volumes.

CMGT 306 Electrical Systems for Construction (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 222.

Taught: Fall and spring

A review of the fundamental principles and materials for electrical work including, lighting, low voltage, and power supply for building construction. Students will be exposed to the selection and installation of electrical components including conduits, light fixtures, power, fire alarm, communications, and low voltage networks.

CMGT 320 Construction Estimating (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 303.

Prereq OR Co-req: CMGT 305 and CMGT 306.

Taught: Fall and spring

Interpretation of Construction drawings and specifications, quantity take-off, types of estimates and their uses, estimating direct and indirect job costs, impact of project delivery system on cost and price, and introduction to bidding strategies. Computer applications in construction estimating.

CMGT 322 Structural Analysis (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 228 and CMGT 301.

Taught: Fall only

Introduction to concepts used in statics, strength of materials and structural analysis as they relate to providing stability for structural components used for determinate temporary load support systems, bracing, shoring/reshoring, and other determinate construction load circumstances. Topics include equilibrium, stability/instability, free body diagrams, the calculation of loads resulting in compressive and tensile forces on elements used to support temporary load conditions; assessment of the strength of components to resist such loads; analysis of components' behavior under varying load conditions, basic design considerations of common temporary

construction structures such as formwork, bracing of vertical elements, and retaining walls. Treatment of load path for statically determinate structures will also be introduced in this course.

CMGT 323 Land Planning and Development (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: CMGT 220, CMGT 222 and CMGT 303.

Taught: Spring only

Practices in land planning and subdivision development. Topics include subsurface utility system planning, environmental protection and controls, project financing and marketing.

CMGT 324 Construction Scheduling (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 320 and CMGT 329.

Taught: Spring only

Applications of time management in construction projects including project planning and scheduling techniques. Topics include development of bar charts, critical path method (CPM), resource allocation, probabilistic scheduling, schedule updating, cash flow baseline, time- cost tradeoff, linear project scheduling, and computer applications in schedule development and control.

CMGT 329 Construction Equipment (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 322.

Prereq OR Co-req: CMGT 303 and CMGT 322.

Taught: Variable, check with department

Investigation of issues related to the functions and use of construction equipment. Topics related to productivity calculation and improvement, sizing and cycle times, coordination and mixing and matching. Topics also include equipment costing issues and economic considerations on buying, leasing, and/or renting construction equipment. Applications to earthwork operations, concrete mixing and placement, lifting, and piling equipment. Application to civil design and earth structures.

CMGT 383 Advanced Technical Study (3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: CMGT 222.

Taught: Variable, check with department

Participation in an employer based technical study program, in a technical seminar, or in a company based practicum. Supervision arranged by the instructor and the agency sponsoring the program. Application must be made with instructor in semester preceding experience. Forty hours of work for each semester hour.

CMGT 399 Independent Study in Construction Management (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: consent of department chair.

Taught: Variable, check with department

For advanced students seeking to study selected problems.

CMGT 400 Building Codes (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 303.

Taught: Fall only

Understanding the use and applications of the building codes for Residential Construction and Commercial Construction.

CMGT 415 Construction Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 324.

Taught: Fall and spring

Principles of Project management and administration applied to construction projects. Integrating the triple constraint (Time, Cost, and Quality) together with other project management functions (Scope, Risk, Communication, Procurement, Human Resources) in a comprehensive project management plan. Topics include computer applications in project administration.

CMGT 420 Construction Cost Control (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 324.

Taught: Fall and spring

A study of project costing elements and their relationship with other project characteristics (Time and Quantity). Applications of Value Engineering in Construction. Investigation of the effect of construction methods on project cost. Project cash flow projections and project financing. Major emphasis on project cost allocation, reporting, tracking, and control for labor, material, equipment, subcontractors, as well as job and general overheads.

CMGT 424 Construction Renovation and Restoration (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: CMGT 324.

Taught: Fall only

Procedures and techniques for renovating and restoring existing structures. Guidelines for historical preservation, preparation, implementation and utilization of project documents for the renovation of historic projects.

CMGT 426 Heavy Construction Techniques and Analysis (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 220, CMGT 222, and CMGT 303.

Taught: Variable, check with department

Latest Concepts, procedures, and techniques used in analyzing the processes of heavy construction.

CMGT 427 Construction Law and Legal Contracts (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 303.

Taught: Fall and spring

Contract law principles, mechanics liens, tort law, labor and employment law, insurance and suretyship, arbitration, and contract license law.

CMGT 429 Civil Design (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: CMGT 329.

Taught: Fall and spring

Concepts, techniques and procedures involved in managing heavy construction and civil work projects. Emphasis on Highway construction estimating, linear project scheduling, underground utilities layout, retention and detention structures, and traffic control and management.

CMGT 430 Design Build (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 320 and CMGT 328.

Taught: Spring only

Major commercial/industrial contractors and their customers want building on a fast track. The design of the building is taking place as the building is being built. Construction design techniques and procedures of fast track building.

CMGT 431 Capstone Project: Residential and Commercial Construction (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: CMGT 324.

Prereq OR Co-req: CMGT 420.

Taught: Spring only

Developing a comprehensive project management response to a Request for Proposals related to developing a residential development or a commercial construction project. Production of project documents including estimates, schedules, and other documents including quality, safety, risk, site utilization, constructability, and sustainability plans.

CMGT 494 Seminar: Construction Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMGT 222.

Taught: Variable, check with department

Readings and discussion of critical questions. Topics vary according to interests and needs of

students. May be repeated two times (6 sem. hrs.).

Communication Studies Courses (CMST)**CMST 101 Public Speaking - OC (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Development of understanding of the oral communication process; aid in improving oral communication skills; idea and message development; effective delivery of ideas; Offered every semester. A prerequisite to all other CMST courses.

General education credit: Oral Communication

CMST 101H Honors Principles of Speech Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

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

General education credit: Oral Communication

CMST 110 Introduction to Communication Studies - OC (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Introduction to various theoretical perspectives for understanding human communication. CMST110 has been designed to introduce students to the study of human communication from a wide range of viewpoints. The course introduces foundational principles of communication theory: general principles and the elements of speech communication, perception, language and verbal symbols, nonverbal activities, and listening. Next, the course applies these principles to the various levels of communicating, i.e. interpersonal, small group, organizational, and intercultural. The course also covers communication and persuasion in public forums such as public speaking and mediated contexts.

General education credit: Oral Communication

CMST 220 Interpersonal Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 101 or CMST 110.

Taught: Fall and spring

Theories and skills of dyadic interaction in professional and personal contexts; perception, self-concept, nonverbal communication, listening, assertiveness, relationships, conflict management and problem solving.

CMST 230 Small Group Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 101 or CMST 110.

Taught: Fall and spring

Theories and activities that increase understanding and skills of communication in groups; decision-making, problem-solving, leadership, listening, cohesiveness, climate-setting, conflict management, groupthink, and systems theory.

CMST 300 Research Methods in Communication Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 101 or CMST 110.

Taught: Fall and spring

Course provides an overview of the concepts, methods, and tools by which research in Communication Studies is designed, conducted, interpreted, and critically evaluated. The course will specifically examine quantitative and qualitative research procedures, research question and hypothesis generation and testing, measurement, sampling, research design, and data analysis techniques.

CMST 303 Organizational Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 101 or CMST 110.

Taught: Fall and spring

Organizational communication theories, models, and processes with practical application of these principles in organizational communication speaking exercises; management and leadership communication skills.

CMST 310 Argumentation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 101 or CMST 110.

Taught: Fall and spring

Research organization and argument development and testing, regulation, and cross-examination of a controversial issue.

CMST 317 Gender and Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 101 or CMST 110.

Taught: Variable, check with department

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

CMST 320 Advanced Interpersonal Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 220.

Taught: Variable, check with department

Theories, research, and issues relevant to human interaction and interpersonal relationships.

CMST 330 Political Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 101 or CMST 110.

Taught: Variable, check with department

Communication strategies and tactics employed by candidates seeking public office; political audiences, campaign phases, political debates, political language, advertising campaigns, media coverage, and campaign speeches.

CMST 335 Communication and Conflict (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 101 or CMST 110.

Taught: Spring only

Theories and strategies of communication will be examined to help explain how people behave in conflict and suggest means of improving communication in order to facilitate a more collaborative process and the production of win-win outcomes.

CMST 340 Strategies of Persuasion (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 101 or CMST 110.

Taught: Fall and spring

Persuasion theory practice, and ethics in preparing and presenting persuasive messages and campaigns.

CMST 345 Family Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 101 or CMST 110.

Taught: Fall only

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

CMST 355 Culture and Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 101 or CMST 110.

Taught: Fall and spring

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

CMST 360 Interviewing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 101 or CMST 110.

Taught: Fall and spring

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

CMST 370 Advanced Public Speaking (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 101 or CMST 110.

Taught: Fall and spring

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

CMST 381 Computer-Mediated Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 101 or CMST 110.

Taught: Variable, check with department

This seminar examines communication occurring between two or more individual people who interact and/or influence each other via the internet or network connection using social software. Topics include identity, social information processing, online romance, social network sites, Internet communities, web blogs, wikis, and workplace considerations.

CMST 394 Topics in Communication Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Focused study of a specific and significant topic from a communication orientation. Topics vary from semester to semester. May be repeated once for credit.

CMST 396 Internship: Communication (3 credits)

Hours: 0 classroom + 12 lab/studio

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

Taught: Fall, spring, and summer

Selected placement of qualified students in off-campus communication studies related professions; experience in corporate training, speech writing, interviewing, sales, and groups, communication.

CMST 410 Rhetorical Theories (3 credits)

Hours: 3 classroom + 0 lab/studio

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)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 101 or CMST 110.

Taught: Fall and spring

Theories of interpersonal, group, public, and mass communication; historical developments, paradigms, and research that shape communication theory construction.

CMST 440 Communication Training and Development (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CMST 101 or CMST 110 and junior standing.

Taught: Variable, check with department

Instruction in design and delivery of communication training programs for specific business contexts; adult learning principles, proposal development, needs assessments, presentation skills, audio/visual aids, and evaluation procedures.

CMST 495 Study Abroad (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Varies by topic.

Taught: Variable, check with department

Varies by topic. Course includes a classroom portion and a trip abroad.

CMST 499 Independent Study (1-3 credits)

Hours: 0 classroom + 4-12 lab/studio

Prerequisites: Junior or senior majoring or minoring in Communication Studies; a GPA of at least 2.50 or consent of instructor; approved independent study proposal.

Taught: Variable, check with department

Individually supervised work involving reading, research. Topic is selected before registration in conference with instructor. May be repeated for maximum of 6 semester hours. Junior standing and consent of instructor; approved independent study proposal.

Communication Courses (COM)**COM 500 Communication Proseminar (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to the Communication Graduate Program.

Taught: Variable, check with department

Designed to introduce students to the communication discipline and graduate studies at NKU. Students explore graduate-level analysis, writing, and thought. Inquiry and discussion pivot around key departmental areas of scholarly emphasis, emerging fields of Informatics, NKU faculty research programs.

COM 520 Relational Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-odd yrs

Relationship-centered understandings of interpersonal communication. The role of communication in developing, sustaining, and terminating social and personal relationships. Class may explore relational theories, concepts, and self-application.

COM 550 Digital Media (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Technical and aesthetic processes in the production of media, including new media and integrated media.

COM 560 Rhetorical Criticism (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-odd yrs

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

COM 571 Critical Ethnography (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Hands-on research seminar examining and practicing ethnographic research methods used to empower communities. Students travel to another culture to enact ethnographic research designs. Digital ethnography, service learning, field study, educational, and interactive research explorations.

COM 575 Intercultural Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Students must have a 3.0+ GPA to enroll in the course.

Taught: Variable, check with department

The examination of advanced cross-cultural, intercultural, multicultural, and international theory and research in relation to communication perceptions and practices.

COM 580 Sexuality and Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Exploration of topics, concepts, and theories related to communication and human sexuality. Relationships, sexual literacy, sexual identities, sexual practices, sex representations, and social control of sexuality.

COM 594 Intermediate Topics in Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Special topics course with readings and writings at the intermediate level. Course varies by instructor and section. Students must have a 3.0 or higher GPA to enroll in this course.

Counseling Courses (COU)**COU 580 Research Tools in Counseling (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Summer only

Research, technology, and communication competencies required for graduate-level coursework in counselor education: use of library resources for researching the counseling literature; written communication using APA style; basic data analysis and interpretation; computer competencies expected for incoming counseling students.

Computer Science Courses (CSC)**CSC 270 Mathematics Software Programming (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 128 or 129.

Taught: Fall and spring

Programming and problem solving with a high-level mathematical software package; variables, control, modularity, processing of lists and vectors; recursion; visualization of functions; basic numerical and symbolic computation; simulation.

CSC 292 Research Experience in CSC (0 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: Varies.

Taught: Variable, check with department

Introduction to research in computer science by participation in a special project or research directed by an appropriate faculty member. Course intended for computer science majors interested in CS research but not ready or able to enroll in more advanced research courses. Pass/fail grade only. Course may be repeated twice.

CSC 299 Directed Readings/Independent Study (1-3 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

CSC 301 Web Programming (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in INF 282 and INF 286 and either INF 260 or CIT 383.

Taught: Spring only

Design of interactive web applications and web sites containing dynamic content; software design for web-based client-server applications and database interaction; client-side and server-side techniques; language-specific design issues.

CSC 325 Introduction to Neural Networks and A.I. (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in INF 260 or BIO 370 or PSY 311, or consent of instructor.

Taught: Variable, check with department

Survey of concepts in artificial neural networks for associative memory and learning; software simulations applied to sample problems; logic-based artificial intelligence; approximate reasoning; search concepts and problems; the limits of machine intelligence. Not open to students who have passed CSC 425.

CSC 360 Object-Oriented Programming II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in INF 260 and B- or better MAT 119 or MAT 128 or MAT 129.

Taught: Fall and spring

Intermediate object-oriented programming concepts and practice: inheritance, basic graphical user interface elements; introduction to recursion; implementation of linked lists; use of basic container types.

CSC 362 Computer Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 360.

Taught: Fall and spring

ANSI C, pointers, pointer arithmetic; dynamic memory allocation; introduction to instruction sets, registers, addressing modes and assembly language; binary representations and bit manipulations; computer organization concepts.

CSC 364 Data Structures and Algorithms (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 360.

Taught: Fall and spring

Analysis and efficient implementation of container types such as stacks, queues, hash tables, search trees, and graphs; sorting algorithms.

CSC 394 Intermediate Topics: Computer Science (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Varies with topic (see Schedule of Classes).

Taught: Variable, check with department

Various topics in computer science.

CSC 399 Intermediate Directed Readings and Independent Study: Computer Science (1-3 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

CSC 402 Advanced Programming Methods (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 362 and 364.

Taught: Fall and spring

High-performance OO and generic programming in C++; concurrent and distributed programming; STL; multi-paradigm design patterns; extensive practice with sophisticated programming projects.

CSC 407 Concepts of Programming Languages (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 362.

Taught: Variable, check with department

History of high-level languages; grammars and the compilation process; axiomatic semantics; language design and implementation issues; procedural, object-oriented, functional, and logic programming paradigms; case studies in important contemporary languages.

CSC 415 Android Mobile App Development (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 362 or CSC 364.

Taught: Spring only

Introduces, explores and reinforces the Android app development language, environment and software development kit; examination of mobile applications and data sources; leveraging GUIs; examination of Android onboard sensors and hardware.

CSC 416 iOS Mobile App Development (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 362 or CSC 364.

Taught: Spring only

Introduces, explores and reinforces the iOS app development language for iPhones, environment and software development kit; examination of mobile applications and data sources; leveraging GUIs; examination of iPhone onboard sensors and hardware.

CSC 425 Artificial Intelligence (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 364.

Taught: Variable, check with department

Concepts and techniques of artificial intelligence; heuristic search, expert systems, AI languages, natural language processing, and elementary neural networks.

CSC 433 Computer Networks (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 362 and INF 284.

Taught: Variable, check with department

Circuit/packet switching networks, TCP/IP model, multimedia networks, socket program-

ming, network protocol analysis and development.

CSC 439 Software Testing and Maintenance (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 364 and senior standing.

Taught: Fall only

Techniques in computer software implementation, testing, configuration management and maintenance. Testing and maintenance of a large-scale software project by students working in teams.

CSC 440 Software Engineering (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 402, CSC 439 and senior standing.

Taught: Spring only

Techniques in computer software specification, design, implementation, testing, documentation, and maintenance; development of a large-scale software project by students working in teams.

CSC 450 Database Management Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 360 and INF 282.

Taught: Variable, check with department

Design and implementation of relational database applications; implementation of various parts of a relational database management system; Structured Query Language, entity-relationship model, normal forms, concurrency control, crash recovery, indexing, evaluation of relational operators, relational query optimization.

CSC 456 Advanced Web Application Development (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 301 and CSC 360.

Taught: Variable, check with department

Advanced technologies for developing web applications for business and industry. Focus on the design and development of scalable, robust, and extensible web applications; different frameworks for developing web applications and the software build process. Web component design and programming, data access, product packaging, and application deployment.

CSC 460 Operating Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 362 and CSC 364.

Taught: Spring only

Internal structures and algorithms for file systems, I/O, memory management and process scheduling; examples drawn from contempo-

rary operating systems such as UNIX and Windows NT.

CSC 462 Computer Architecture (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 362.

Taught: Variable, check with department

Implementation of control unit and arithmetic-logic unit, microprocessor organization and design, main memory and cache organizations, I/O subsystem; RISC vs. CISC instruction sets, pipe-lining, parallel processing; mechanisms for evaluating computer architectures and microprocessor performance.

CSC 464 Design and Analysis of Algorithms (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 364 and MAT 385.

Taught: Variable, check with department

Proofs of time and space bounds on important algorithms; advanced algorithms on graphs, sequences and sets; divide-and-conquer and dynamic programming; randomized algorithms; parallel algorithms.

CSC 480 Computer Graphics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 364 and MAT 234.

Taught: Variable, check with department

Real-time graphics programming using a contemporary 3D API; affine and projective transformations; illumination and shading algorithms; representation and rendering of meshes; 3D picking; clipping and frame-buffer techniques; object-oriented scene graphics.

CSC 482 Computer Security (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in CSC 362.

Taught: Variable, check with department

Theory and algorithms of computer security, including security policies, access control, secure programming, identity and authentication, information flow, and information assurance techniques.

CSC 483 Cryptology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 234 or CSC 362 or CSC 364.

Taught: Variable, check with department

Cryptology of classical ciphers, mathematical foundations of cryptology, Hill cipher, DES and AES, cryptography of public key cryptosystems.

CSC 485 Theory of Computation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 385.

Taught: Fall only

Regular and context-free grammars; Turing machines; recursive and recursively enumerable languages; uncomputability; the Chomsky

hierarchy; complexity classes such as P, NP, and NP-complete.

CSC 493 Research Seminar in Computer Science (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 385 and CSC 364, and consent of instructor.

Taught: Variable, check with department

Examination and presentation of contemporary research work in computer science.

CSC 494 Advanced Topics: Computer Science (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: varies with topic (see Schedule of Classes).

Taught: Variable, check with department

Various advanced topics in computer science.

CSC 499 Advanced Directed Readings/Independent Study (1-3 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

CSC 501 Intermediate Programming Workshop (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: graduate standing; background in computer programming and data structures.

Taught: Variable, check with department

Intensive review of programming and data structures from an object-oriented perspective using the C++ language. Intended for students whose computer programming skills need refreshing or updating.

CSC 502 Advanced Programming Methods (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Regular admission to MSCS program or admission to Secure Software Engineering certificate program.

Taught: Variable, check with department

High-performance OO and generic programming in C++; concurrent and distributed programming; STL; multi-paradigm design patterns; extensive practice with sophisticated programming projects.

CSC 507 Concepts of Programming Languages (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Regular admission to MSCS program.

Taught: Variable, check with department

History of high-level languages; grammars and the compilation process; axiomatic semantics; language design and implementation issues; procedural, object-oriented, functional, and logic programming paradigms; case studies in important contemporary languages.

CSC 515 Android Mobile App Development (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Regular admission to the MSCS program.

Taught: Spring only

Introduces, explores and reinforces the Android app development language, environment and software development kit; examination of mobile applications and data sources; leveraging GUIs; examination of Android onboard sensors and hardware.

CSC 516 iOS Mobile App Development (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Regular admission to the MSCS program.

Taught: Spring only

Introduces, explores and reinforces the iOS app development language for iPhones, environment and software development kit; examination of mobile applications and data sources; leveraging GUIs; examination of iPhone onboard sensors and hardware.

CSC 525 Artificial Intelligence (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Regular admission to MSCS program.

Taught: Variable, check with department

Concepts and techniques of artificial intelligence; heuristic search, expert systems, AI languages, natural language processing, and elementary neural networks.

CSC 533 Computer Networks (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Regular admission to MSCS program.

Taught: Variable, check with department

Circuit/packet switching networks, TCP/IP model, multimedia networks, socket programming, network protocol analysis and development.

CSC 539 Software Testing and Maintenance (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: regular admission to the MSCS program.

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 540 Software Engineering (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Regular admission to MSCS program or admission to Secure Software Engineering certificate program and CSC 502.

Taught: Spring only

Techniques in computer software specification, design, implementation, testing, documentation, and maintenance; development of large-scale project by students working in teams.

CSC 550 Database Management Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Regular admission to MSCS program.

Taught: Variable, check with department

Database design, normal forms, concurrent processing, recovery, security, relational model, Structured Query Language, hierarchical and network models.

CSC 556 Advanced Web Application Development (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Regular admission to MSCS program or consent of MSCIT director.

Taught: Variable, check with department

Advanced technologies for developing web applications for business and industry. Focus on the design and development of scalable, robust, and extensible web applications; different frameworks for developing web applications and the software build process. Web component design and programming, data access, product packaging, and application deployment.

CSC 560 Operating Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Regular admission to MSCS program.

Taught: Spring only

Internal structures and algorithms for file systems, I/O memory management and process scheduling; examples drawn from contemporary operating systems such as Unix and Windows.

CSC 562 Computer Architecture (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Regular admission to MSCS program.

Taught: Variable, check with department

Implementation of control unit and arithmetic-logic unit, microprocessor organization and design, main memory and cache organizations, I/O subsystem; RISC vs. CISC instruction sets, pipe-lining, parallel processing; mechanisms for evaluating computer architectures and microprocessor performance.

CSC 564 Design and Analysis of Algorithms (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Regular admission to MSCS program.

Taught: Variable, check with department

Proofs of time and space bounds on important algorithms; advanced algorithms on graphs, sequences and sets; divide-and-conquer and dynamic programming; randomized algorithms; parallel algorithms.

CSC 580 Computer Graphics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Regular admission to MSCS program and MAT 234 or equivalent.

Taught: Variable, check with department

Real-time graphics programming using a contemporary 3D API; affine and projective transformations; illumination and shading algorithms; representation and rendering of meshes; 3D picking; clipping and frame-buffer techniques; object-oriented scene graphs.

CSC 582 Computer Security (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Regular admission to the MSCS program or admission to the Secure Software Engineering certificate program.

Taught: Variable, check with department

Theory and algorithms of computer security, including security policies, access control, secure programming, identity and authentication, information flow, and information assurance techniques.

CSC 584 Cryptography (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Cryptology of classical ciphers, DES and AES, public key cryptosystems, authentication and cryptographic hash functions.

CSC 585 Theory of Computation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Regular admission to MSCS program.

Taught: 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 593 Research in Seminar in Computer Science (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Regular admission into MSCS program.

Taught: Variable, check with department

Examination and presentation of contemporary research work in computer science.

CSC 594 Topics: Computer Science (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Regular admission to MSCS program and consent of instructor.

Taught: Variable, check with department

Various advanced topics.

CSC 599 Intermediate Independent Study (1-3 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: Regular admission to MSCS Program, consent of instructor.

Taught: Variable, check with department

Intermediate Independent Study.

Career and Technical Education Courses (CTE)**CTE 180 Foundations: Career/Technical Education (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Principles, objectives, historical perspective, purposes, and roles of career and technical education as related to technological, societal, and educational influences.

CTE 181 Instructional Systems Development (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

Design and development of instructional systems; performance objectives, appropriate content, instructional media, teaching learning strategies, and curricula analysis in specialized industrial education programs at all educational levels.

CTE 195 Vocational Pre-Certification Experience (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: verification of eligibility by Kentucky Department of Education.

Taught: Summer only

Completion of Kentucky Teacher Internship and Kentucky Department of Education Management by Instruction workshop. Graded pass/fail.

CTE 280 Instructional Methods: Career and Technical Education (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CTE 181.

Taught: Fall only

Methods and strategies for the implementation or presentation of instructional systems in specialized career and technical education programs at all educational levels.

CTE 281 Evaluation in Career/Technical Education (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: CTE 181.**Taught: Spring only*

Principles and procedures in evaluating student and teacher behavior including preparation of measuring devices, methods of assessing technical competency, interpretation of standardized tests and introduction to statistical analysis of test data.

CTE 285 Competency Testing Examination (3-6 credits)*Hours: 3-6 classroom + 0 lab/studio**Taught: Variable, check with department*

National Occupational Competency Testing Institute Examination in a specific career/technical area. Students must register for examination with an approved NOCTI Testing Center.

CTE 286 Competency Testing Examination (3-6 credits)*Hours: 3-6 classroom + 0 lab/studio**Taught: Variable, check with department*

National Occupational Competency Testing Institute Examination in a specific career/technical area. Students must register for examination with an approved NOCTI Testing Center.

CTE 316 Intercultural Business Communication (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: Junior classification or consent of instructor.**Taught: Fall and spring*

Written, oral, and nonverbal communication techniques in diverse domestic and multinational high-tech work environments for effective communication among employees and with customers and clients.

CTE 380 Organization and Management of Career and Technical Education (3 credits)*Hours: 3 classroom + 0 lab/studio*

Co-requisites: curricular responsibilities as applied to career and technical education programs at all educational levels. PREREQ: CTE 181 or consent of instructor.

Taught: Spring only-odd yrs

Laboratory and equipment planning and maintenance programs, classroom and laboratory management systems; purchasing, storage, dispensing, and inventory control procedures; public relations.

CTE 382 Exceptional Students in Career/Technical Education (3 credits)*Hours: 3 classroom + 0 lab/studio**Taught: Fall only-odd years*

Adapting career and technical school programs to accommodate integration of exceptional students in vocational laboratories; identification of characteristics, curricula, and methodological modifications and supportive services and personnel.

CTE 385 Competency Testing Examination (3-6 credits)*Hours: 3-6 classroom + 0 lab/studio**Taught: Variable, check with department*

National Occupational Competency Testing Institute Examination in a specific career/technical area. Students must register for examination with an approved NOCTI Testing Center.

CTE 487 Teaching Career/Technical Education Capstone (4 credits)*Hours: 4 classroom + 0 lab/studio**Taught: Fall only-even years*

practicum approach for improvement of teaching: problems and techniques of planning and implementing instructional systems and teaching strategies. Satisfies instructional internship requirement for teachers who have completed four years of experience.

CTE 488 Problems in Career/Technical Education (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: CTE 280.**Taught: Fall only-even years*

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

Dance Courses (DAN)**DAN 120 Ballet I (3 credits)***Hours: 0 classroom + 2-4 lab/studio**Taught: Fall, spring, and summer*

Introduction to technique for students with little or no dance training.

DAN 220 Ballet II (3 credits)*Hours: 0 classroom + 2-4 lab/studio**Prerequisites: consent of instructor or chair.**Taught: Fall and spring*

Intermediate level.

DAN 221 Modern Dance I (3 credits)*Hours: 0 classroom + 2-4 lab/studio**Taught: Fall and spring*

Beginning level.

DAN 222 Jazz Dance I (3 credits)*Hours: 0 classroom + 2-4 lab/studio**Prerequisites: DAN 120.**Taught: Fall and spring*

Introduction to jazz dance technique. For students with little or no jazz dance training.

DAN 224 Tap I (3 credits)*Hours: 0 classroom + 2 lab/studio**Taught: Fall only*

Introduction to tap dance technique. No previous training necessary.

DAN 226 Foundation Seminar (2 credits)*Hours: 0-2 classroom + 0 lab/studio**Prerequisites: 2 DAN classes and consent of instructor or chair.**Taught: Variable, check with department*

Execute corrective exercise by strengthening muscle tissue and skeletal connections, learning technical skills essential for all areas of dance; analyze movement strategies for proper body alignment. May be repeated for a maximum of 4 hours.

DAN 227 Special Topics in Dance (0-6 credits)*Hours: 0-2 classroom + 2-4 lab/studio**Taught: Variable, check with department*

Opportunity for introductory work in specialized topics related to student's areas of concentration. Can be repeated for credit up to 9 hours.

DAN 321 Modern Dance II (3 credits)*Hours: 0 classroom + 2-4 lab/studio**Prerequisites: DAN 221 or consent of instructor or chair.**Taught: Spring only*

Intermediate level.

DAN 322 Jazz Dance II (3 credits)*Hours: 0 classroom + 2-4 lab/studio**Prerequisites: DAN 222 or consent of instructor or chair.**Taught: Variable, check with department*

Intermediate level.

DAN 323 Physiology of Dance (3 credits)*Hours: 2 classroom + 1 lab/studio**Taught: Variable, check with department*

Provides an explanation of dance kinesiology for the dancer. Emphasis is placed on the actions of the muscles, implications of joint mechanics for technique, dance terminology, specific exercises and discussion of dance injury.

DAN 324 Tap Dance II (3 credits)*Hours: 0 classroom + 2-4 lab/studio**Prerequisites: DAN 224 or consent of instructor or chair.**Taught: Spring only*

Dance work in tap dance: audition and performance preparation; techniques in choreography.

DAN 326 Advanced Dance Seminar I (2-6 credits)

Hours: 2-4 classroom + 2-6 lab/studio

Prerequisites: consent of instructor or chair.

Taught: Variable, check with department

Advanced work in dance (all genres may be explored) for students majoring in theatre and skilled dancers.

DAN 375 Choreography (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: 6 semester hours of dance or consent of instructor or chair.

Taught: Variable, check with department

Interpretations of ballets and stage musicals as expressed in movement and dance.

DAN 426 Advanced Dance Seminar II (2-6 credits)

Hours: 0-2 classroom + 2-4 lab/studio

Prerequisites: consent of instructor or chair.

Taught: Variable, check with department

More advanced level of dance training (all genres may be explored) for students majoring in theatre and for skilled dancers; all genres. May be repeated for credit.

DAN 427 Dance History (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of dance.

Taught: Variable, check with department

Major contributing forces, key figures, and styles that helped form contemporary dance today.

DAN 428 Special Problems in Dance (3 credits)

Hours: 0 classroom + 2-6 lab/studio

Prerequisites: 3 semester hours of dance.

Taught: Variable, check with department

Opportunity for additional advanced work in the dance student's area of concentration. The studio technique allows the student to choose from among electives in specific areas of interest.

Data Science Courses (DSC)**DSC 101 Introduction to Data Science (1 credit)**

Hours: 1 classroom + 0 lab/studio

Prerequisites: Data science major.

Taught: Fall only

Describes the field of data science and data science careers. Orients students to data science in the College of Informatics, including experience with commonly used tools and labs.

DSC 194 Data Science: Introductory Topic (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Varies by topic.

Taught: Variable, check with department

Introductory topic in data science. Topic will vary by offering.

DSC 199 Data Science: Introductory Independent Study (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Varies by topic.

Taught: Variable, check with department

Introductory independent study in data science.

Topic will vary by offering.

DSC 292 Research Experience in DSC (0 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: Varies.

Taught: Variable, check with department

Introduction to research in data science by participation in a special project or research directed by an appropriate faculty member.

Course intended for data science majors interested in data science research but not ready or able to enroll in more advanced research courses. Pass/fail grade only. Course may be repeated twice.

DSC 311 Data Analytics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CSC 360 and STA 250.

Taught: Spring only

Study of the data analysis process; exploratory data analysis and visualization; selection of data modeling techniques; identification of important attributes; and presentation of data analysis results.

DSC 321 Data Visualization (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: DSC 311.

Taught: Fall only

Design principles and techniques for visualizing data; visualization techniques for spatial and geospatial data; visualization techniques for multivariate data; networks visualization; interaction concepts and techniques; designing effective visualizations.

DSC 411 Data Mining (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CSC 364 and STA 250.

Taught: Spring only

Discovering patterns in datasets; data mining concepts and methodologies including classification, clustering, associations, and anomaly detection; selecting appropriate data mining algorithms; experimenting with data mining tools, such as SPSS, R, Weka, or Oracle Data Miner.

DSC 421 Big Data (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: DSC 411 and CSC 450.

Taught: Fall only

Manipulation, storage, and analysis of large scale data; large-scale distributed filesystems like HDFS (Hadoop Distributed File System); large scale databases including SQL and NoSQL; MapReduce algorithm design.

DSC 431 Network Analysis (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: STA 250 and CSC 364.

Taught: Fall only

Network analysis fundamentals; technological and information networks; social networks; network representations; network visualization; network centrality measures; network structure; random networks; models of network formation.

DSC 496 Data Science Capstone (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIS 330, DSC 321 and DSC 411.

Taught: Spring only

Student teams design, implement, and present a data science project for a client. Projects will include cleaning, processing, and analysis of data, along with oral and written presentations with appropriate data visualizations.

Economics Courses (ECO)**ECO 200 Principles of Macroeconomics - SB (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: sophomore standing and completion of one college-level mathematics course.

Taught: Fall, spring, and summer

Introductory macroeconomics; national income and employment; economic growth, business cycles and inflation; economic role of government; role of money and banking system; international trade. Prerequisites sophomore standing and completion of one college-level mathematics course.

General education credit: Individual and Society

ECO 201 Principles of Microeconomics - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: sophomore standing and completion of one college-level mathematics course.

Taught: Fall, spring, and summer

Individual market behavior in capitalistic economy; role of supply and demand in determination of value and resource allocation; monopoly and its regulation; problems of economic growth; population growth, and environment.

General education credit: Individual and Society

ECO 205 Economics for Teachers (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Examines essential concepts of macroeconomics and microeconomics with an emphasis on concepts appropriate for elementary, mid-

dle, and high schools. Not applicable to a major or minor in business. Will not substitute for ECO 200 and/or ECO 201.

ECO 215 Contemporary Economics Issues (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: sophomore standing.

Taught: Variable, check with department

Basic principles and structure used in economic decision making; analysis of economic institutions, social issues, and the basic objectives of efficiency, equity, stability, and growth of economic activity. Not applicable to a major or minor in business. Will not substitute for ECO 200 and/or ECO 201.

ECO 300 Intermediate Macroeconomics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ECO 200 and ECO 201, and STA 205 or STA 212.

Taught: Fall only

Theory of economic aggregates; advanced analysis of national income determination and employment; development of policy on inflation, unemployment, and economic growth; the internet and data sources available on the World Wide Web.

ECO 301 Intermediate Microeconomics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ECO 200 and ECO 201, STA 205 or STA 212.

Taught: Spring only

Theory of optimal price; output and employment decisions of firms under varying market structures; individual and market demand; general equilibrium; case studies of major topics.

ECO 302 Money and Banking (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ECO 200 and ECO 201, STA 205 or STA 212.

Taught: Variable, check with department

History and evolution of the American banking system; interest rates, financial instruments, and financial markets; financial institutions; central banks, monetary policy and financial stability; modern monetary economics.

ECO 305 International Context for Business (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Certified as a business major or declared major in economics.

Taught: Fall and spring

Domestic and global economic environments of organizations; interactions and interrelationships between the cultural, ethical, social, political, technological, and ecological factors constituting the international context for business.

ECO 307 Moneyball: The Economics of Sports (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in ECO 201.

Taught: Fall and summer

Challenges students to apply economic theory to the unique aspects of college and professional sports. Highlights of the course include the industrial structure of sports, public financing of sports, and labor markets in sports.

ECO 310 Introduction to Econometrics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ECO 200 and ECO 201, and STA 205 or STA 212.

Taught: Fall only

Introduction to economic measurement; review of statistics, theoretical models, analysis of economic data, forecasting and other technical considerations; gathering, analyzing, and presenting economic information.

ECO 311 Econometrics II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ECO 310

Taught: Spring only

Second course in econometrics sequence. The course covers how to statistically address problems resulting from relaxation of assumptions underlying OLS regression; simultaneous equation models; time series models and forecasting based in Excel.

ECO 330 Urban and Regional Economics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ECO 200 and ECO 201.

Taught: Variable, check with department

Application of economic analysis to explain spatial patterns of economic activity within subdivisions of the larger economic system.

ECO 340 International Economics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ECO 200 and ECO 201.

Taught: Variable, check with department

Theory of international trade and finance; commercial and financial policies; foreign exchange; international monetary institutions; policies of free and controlled trade; world economic planning.

ECO 342 Economic Development (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ECO 200 and ECO 201.

Taught: Variable, check with department

Changing economic circumstances over time; measuring economic development; factors associated with economic development; domestic and foreign saving and investment; human capital and productivity; trade policy;

exporting; other factors affecting economic development.

ECO 350 Labor Economics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ECO 200 and ECO 201.

Taught: Variable, check with department

Analysis of the functioning of labor markets with theoretical, empirical, and policy applications in determination of employment and wages in the U.S. economy.

ECO 394 Topics in Economics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ECO 200 and ECO 201.

Taught: Variable, check with department

Specialized topics of faculty and student interest. May be repeated twice when topics vary.

ECO 396 Internship: Economics (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ECO 300, ECO 301, ECO 310 and consent of instructor.

Taught: Fall, spring, and summer

Selected placement of qualified students in supervised paid or unpaid off-campus economics related professions; experience in statistical problem solving and business policies and procedures. Repeatable for a maximum of 6 semester hours.

ECO 494 Seminar in Economics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ECO 300 and ECO 301.

Taught: Fall and spring

Capstone course for economics majors. Discussion and analysis of contemporary economic problems. Different topics offered each semester. Written research paper and oral presentation required.

ECO 499 Independent Study: Economics (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: ECO 200 and ECO 201.

Taught: Variable, check with department

Directed readings, independent research, or student projects on areas of individual academic interest; topics, meeting times, and outcomes arranged with instructor.

ECO 580 Economics for Teachers (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

A conceptual framework for the study of economics and overview relating to the basic economic problem, economic systems, resource allocation, economic growth and stability, economic institutions, and goals. Foundation course intended for classroom teachers with little or no background in economics. Open

only to students majoring in education. Repeatable for credit when topics vary.

ECO 594 Topics: Teaching Economics (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Summer only

Strategies and activities for teaching economics and selected economic topics at the elementary and secondary levels; instructional resources and their effective use in the classroom; sample curriculum guides; curriculum development activities. Repeatable for credit when topics vary. Open only to students majoring in education.

Education – Special Education Courses (EDS)

EDS 322 Instructional Planning for Inclusive Elementary Classrooms (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: EDS 360 or PHE 500 or permission of instructor.

Co-requisites: EDU 390 or EDU 391 or EDU 393.

Taught: Fall and spring

Designing elementary classroom instruction that meets the diverse needs of all students; collaborative skills that support inclusive practices.

EDS 323 Instructional Planning for Inclusive Middle Level Classrooms (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: EDS 360 or PHE 500 or permission of instructor.

Co-requisites: EDU 391. Open to Middle Level Education majors only.

Taught: Fall and spring

Designing middle level classroom instruction that meets the diverse needs of all students; collaborative skills that support inclusive practices.

EDS 324 Instructional Planning for Inclusive Secondary Classrooms (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: EDS 360 or PHE 500 or permission of instructor.

Co-requisites: EDU 393.

Taught: Fall and spring

Designing secondary classroom instruction that meets the diverse needs of all students; collaborative skills that support inclusive practices.

EDS 360 Students with Exceptionalities in School (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100.

Taught: Fall and spring

Nature and needs of students with exceptionalities; overview of educational programming and legal issues in special education.

EDS 360H Students with Exceptionalities Honors (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100.

Taught: Spring only

Nature and needs of students with exceptionalities; overview of educational programming and legal issues in special education.

EDS 362 Applied Behavior Analysis for Students with Disabilities (3 credits)

Hours: 3 classroom + 0 lab/studio

Co-requisites: EDS 464, EDS 472, and EDS 473.

Taught: Fall only

Principles of behavior analysis and research; classroom examples of behavior applications with students with disabilities.

EDS 363 Behavior Mgmt Strategies for Young Child (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only-even years

This course covers the principles of applied behavior analysis. As part of the course, the student will be expected to design and implement a behavior change project. REQUIRED for both IECE and Non-certification track students.

EDS 364 Characteristics of Learning Disabilities (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: EDS 360.

Taught: Spring only

Nature and needs of students with learning or behavior disorders; factors to consider in providing appropriate educational programs.

EDS 464 Assessment Learning and Behavior Disorders (3 credits)

Hours: 3 classroom + 2 lab/studio

Prerequisites: EDS 364.

Co-requisites: EDS 362, EDS 473, and EDS 472.

Taught: Fall only

Principles and procedures of assessment for eligibility determination of students with exceptional abilities and monitoring of student progress.

EDS 472 Special Education Methods and Materials (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: EDS 364.

Co-requisites: 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 Field Experience (2 credits)

Hours: 0 classroom + 4 lab/studio

Co-requisites: EDS 362, EDS 464 and EDS 472.

Taught: Fall only

Experiences in application of assessment, behavior intervention, and instructional methods with students with learning and behavior disorders. Pass/Fail.

EDS 551 Assistive Technology in the Classroom (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Evaluating for assistive technology; approaches and devices for communication, mobility, and sensory impairments; distances learning technology for transition to the community and post school careers.

EDS 561 Intellectual and Orthopedic Disabilities (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Undergraduates must be admitted in to Teacher Education.

Taught: Fall and spring

Characteristics and educational programs for students who have intellectual disabilities or orthopedic and/or health impairments.

EDS 562 Early Childhood Special Education Programs (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: EDS 360 or equivalent.

Taught: Spring and summer

Building on knowledge of child development, students will learn to adapt curricula and intervention approaches to support children with special needs.

EDS 570 Working with Families of Students with Disabilities (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Undergraduates must be admitted in to Teacher Education.

Taught: Fall and spring

Information, skills, and resources for effective interaction with parents and families of children with disabilities.

EDS 572 Secondary Special Education Programs (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Undergraduates must be admitted to Teacher Education.

Taught: Fall and spring

Characteristics of adolescents with learning and behavior disorders; educational programming for secondary students with mild disabilities.

EDS 588 Professional Laboratory Experiences (3-6 credits)

Hours: 0 classroom + 3-6 lab/studio

Prerequisites: completed coursework for certification; valid teaching certificate.

Taught: Fall and spring

Classroom field experience in added area of certification; individual project.

EDS 599 Independent Study: Special Education (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: departmental permission.

Taught: Variable, check with department

Individualized study of a special topic under supervision of a faculty member. May be repeated for credit when topic varies.

Education Courses (EDU)**EDU 104 Orientation: Education Profession/Program (1 credit)**

Hours: 1 classroom + 0 lab/studio

Taught: Fall and spring

Designed to explore the education profession and programs of the Teacher Education Department; Teacher Education Handbook; KY New Teacher Standards; various teacher areas; and includes a field experience component. Education majors must earn a grade of C or better.

EDU 104H Introduction to the Education Profession (1 credit)

Hours: 1 classroom + 0 lab/studio

Taught: Fall only

The purpose of this course is to explore the education profession and the programs in the College of Education and Human Services. The course is intended for anyone who is interested in becoming a teacher. The course will address the KY Teacher Standards, the Teacher Education Handbook, various teaching areas, and include a field experience component. Students must complete this course before they can enroll in any other education courses.

EDU 294 Special Topics in Education (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

This course will cover special topics and current issues in education. May be repeated for credit when topics vary.

EDU 300 Human Growth and Development (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100.

Taught: Fall and spring

Life-span human development; physical, cognitive, social, and personal development especially as these relate to children in school and to the adults who influence them; individual study focusing on student development at specific levels of instruction.

EDU 300H Human Growth and Development Honors (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100.

Taught: Fall only

Life-span human development physical, cognitive, social, and personal development especially as these relate to children in school and to the adults who influence them individual study focusing on student development at specific levels of instruction.

EDU 301 Interpersonal Interaction and Guidance (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior standing.

Taught: Variable, check with department

Familiarization with challenging behaviors and guidance strategies for young children within early childhood settings.

EDU 302 Teaching of Reading (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to the teacher education program.

Co-requisites: EDS 322, and EDU 390, EDU 314, EDU 310.

Taught: Fall and spring

Nature and underlying theories of reading processes, development, and sequence of reading skills; effective instructional design for teaching and assessing reading in K-5 classroom.

EDU 303 Admission Field Experience IECE (2 credits)

Hours: 0 classroom + 4 lab/studio

Prerequisites: 45 semester hours completed, minimum 2.75 overall GPA and acceptable score on PRAXIS I and successfully completed FBI background check.

Co-requisites: EDU 313.

Taught: Fall and spring

Field experience for students who plan to teach children ages birth- kindergarten with or without disabilities in a variety of settings.

EDU 304 Reading and Writing Across the Curriculum: Middle Grades (3 credits)

Hours: 3 classroom + 0 lab/studio

Co-requisites: EDU 318, and EDU 394.

Taught: Fall and spring

Nature of the reading and writing process in the middle grades across the curriculum; theory, instructional methods, and materials.

EDU 305 Introduction to Education (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: EDU 104.

Taught: Fall and spring

Examination of teaching as a profession and of schooling as it currently functions in the U.S.; inquiry into contemporary educational theory and practice to assist students in making realistic career decisions.

EDU 305H Introduction to Education Honors (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: EDU 104H.

Taught: Fall only

Examination of teaching as a profession and of schooling as it currently functions in the U.S. inquiry into contemporary educational theory and practice to assist students in making realistic career decisions.

EDU 306 Teaching Elementary School Mathematics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MAT 140 and MAT 141, each with minimum grade of C; satisfactory completion of professional semester I; admission to the teacher education program.

Co-requisites: EDU 308, EDU 312, EDU 315 and EDU 392.

Taught: Fall and spring

Materials and methods for teaching problem solving, reasoning, communication, and connections of the concepts, skills, and relationships in elementary mathematics including number/computation, geometry/measurement, probability and statistics, and algebraic ideas.

EDU 307 Admission Field Experience Elementary (2 credits)

Hours: 0 classroom + 4 lab/studio

Prerequisites: 45 semester hours completed; 2.75 overall GPA; acceptable score on PRAXIS I and successfully completed FBI background check.

Co-requisites: EDU 313.

Taught: Fall and spring

Introductory field experience for students planning to teach in elementary schools; individual and group activities to assist students in making realistic career decisions.

EDU 308 Teaching Elementary School Science (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: One biology course with lab and one physical science course with lab or SCI 110 and SCI 111 (each with a minimum grade of C); satisfactory completion of Professional Semester I; admission to the teacher education program.

Co-requisites: EDU 306, EDU 315, EDU 312, and EDU 392.

Taught: Fall and spring

Theory, content, and instructional strategies for teaching elementary school science with an emphasis on inquiry-based methods.

EDU 309 Admission Field Experience Middle Grades (2 credits)

Hours: 0 classroom + 4 lab/studio

Prerequisites: 45 semester hours completed; 2.75 overall GPA; acceptable score on PRAXIS I and successfully completed FBI background check.

Taught: Fall and spring

Introductory field experience for students planning to teach in middle grade schools; individual and group activities to assist students in making realistic career decisions.

EDU 310 Teaching Language Arts in Early Grades (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 291 or ENG 151H; successful completion of the admissions practicum; admission to the teacher education program.

Co-requisites: EDU 302, EDU 314 and EDS 322.

Taught: Fall and spring

Objectives, curricula, and instructional materials related to teaching and assessing language arts, writing, and communication in a K-5 classroom.

EDU 311 Admission Field Experience Secondary (2 credits)

Hours: 0 classroom + 4 lab/studio

Prerequisites: 45 semester hours completed; 2.75 overall GPA; acceptable score on PRAXIS I, successfully completed FBI background check.

Taught: Fall and spring

Introductory field experience for students planning to teach in middle or secondary schools; individual and group activities to assist students in making realistic career decisions.

EDU 312 Teaching Social Studies in Early Grades (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of history/geography; successful completion of Professional Semester I; admission to the teacher education program.

Co-requisites: EDU 306, EDU 308, EDU 315, and EDU 392.

Taught: Fall and spring

Objectives, curricula, and instructional strategies for teaching social studies in elementary schools.

EDU 313 Instructional Technology (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: EDU 104.

Co-requisites: EDU 303, EDU 307, EDU 309, or EDU 311.

Taught: Fall and spring

Materials and methods designed to use technology to enhance learning within and across content areas: emphasis on 21st century skills, technology integration strategies, Internet tools, instructional applications, and technology ethics.

EDU 314 Classroom Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to the teacher education program.

Co-requisites: EDU 390, EDU 302, EDS 322.

Taught: Fall and spring

Current research and theory related to planning, organizing, and managing student learning and behavior in the classroom.

EDU 315 Educational Assessment: Elementary Schools (2 credits)

Hours: 2 classroom + 0 lab/studio

Taught: Fall and spring

Concepts and principles of testing needed to select, construct, and interpret assessment instruments used in schools. This course is open to Elementary education majors only.

EDU 316 Racism and Sexism in Educational Institutions - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Introduction to the role of educational institutions in perpetuating racism and sexism in the U.S.; theories of prejudice, assimilation, feminism, and cultural reproduction explain patterns of social, cultural, political, psychological, and economic exclusion.

General education credit: Cultural Pluralism

EDU 316H Racism and Sexism in Educational Institutions - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

Role of educational institutions in perpetuating racism and sexism in the U.S. how theories of prejudice, assimilation, feminism, and cultural reproduction explain patterns of social, cultural, political, psychological, and economic exclusion.

General education credit: Cultural Pluralism

EDU 317 Teaching of Phonics in Elementary/Middle School (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to teacher education program.

Taught: Variable, check with department

Methods and materials to focus on phonics as part of reading instruction; use of children's literature to teach phonics in context.

EDU 318 Classroom Climate Management: Middle School (1 credit)

Hours: 1 classroom + 0 lab/studio

Prerequisites: Admission to the teacher education program.

Co-requisites: EDU 304 and EDU 394.

Taught: Fall and spring

Current research and theory related to developing, maintaining, and managing an effective middle grades classroom climate.

EDU 319 Classroom Climate Management Secondary (1 credit)

Hours: 1 classroom + 0 lab/studio

Prerequisites: Admission to Teacher Education program.

Co-requisites: EDU 393, 324, EDS 324.

Taught: Fall and spring

Current research and theory related to developing, maintaining, and managing effective secondary grades classroom climate.

EDU 320 Working with Families of Young Children (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Study of factors contributing to effective relationships with families of young children in home and center-based settings.

EDU 324 Fundamentals of Secondary Education (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: Admission to the teacher education program.

Co-requisites: EDU 393, EDU 319, EDS 324.

Taught: Fall and spring

Principles and strategies for effective secondary school teaching; curriculum planning, general teaching methods, and evaluation strategies.

EDU 325 Educational Assessment Secondary (2 credits)*Hours: 2 classroom + 0 lab/studio**Prerequisites: Admission to the Teacher Education Program.**Co-requisites: EDU 396.**Taught: Fall and spring*

Concepts and principles of testing needed to select, construct, and interpret assessment instruments used in schools. This course is open to Secondary education majors only.

EDU 330 Teaching Science in Secondary School (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C or better in at least 24 credit hours which vary according to major.**Taught: Fall only*

Principles and methods for teaching secondary school science concepts, skills, and processes in accordance with national and state standards with emphasis on inquiry including design, implementation, assessment, and evaluation, and reflection-on-practice strategies in connection with technology, meeting all students' needs and integration across the curriculum.

EDU 331 Teaching Social Studies in Secondary School (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: Admission to the teacher education program, or concurrently with admission semester.**Taught: Fall only*

Principles and practices related to teaching social studies in accordance with state and national standards; basic social studies skills, professional content, and planning, implementing, and evaluating instruction.

EDU 333 Teaching Math in Secondary School (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: MAT 129, MAT 229, MAT 234 or MAT 128, MAT 227, MAT 228 and MAT 234.**Taught: Fall only*

Principles and methods for teaching concepts, skills, and relationships in secondary mathematics in accordance with national and state standards including number/computation, geometry/measurement, probability and statistics, and algebraic ideas, and the appropriate use of manipulative and technology tools.

EDU 334 Portfolio Development (1 credit)*Hours: 1 classroom + 0 lab/studio**Taught: Fall and spring*

The purpose of this course is to teach students the curriculum standards and teaching methods necessary for a professional career as a teacher.

EDU 343 Educational Assessment Middle Schools (2 credits)*Hours: 2 classroom + 0 lab/studio**Prerequisites: Admission to Teacher Education program.**Co-requisites: EDU 344, EDU 391, EDS 323.**Taught: Fall and spring*

Concepts and principles of testing needed to select, construct, and interpret assessment instruments used in schools. This course is open to Middle Grades education majors only.

EDU 344 Fundamentals of Middle Grades Education (2 credits)*Hours: 2 classroom + 0 lab/studio**Prerequisites: Admission to the teacher education program.**Co-requisites: EDU 343 and EDU 391.**Taught: Fall and spring*

Philosophy and learning theories forming the basis of the middle grades concept; curriculum and lesson planning; including the framework of general teaching methods and motivation.

EDU 345 Teaching Language Arts in Middle Grades (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 12 semester hours of language arts content courses with a grade of C or better chosen from English, Speech, or Journalism and admission to the teacher education program.**Taught: Fall and spring*

Theory, content, and instructional strategies for teaching language arts in the middle grades; including national and state standards.

EDU 346 Teaching Science in Middle Grades (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 12 semester hours science content of C or better chosen from biological and physical sciences (AST, CHE, GLY, PHY) or SCI 110 and 111; one of which must be CHE 105.**Taught: Fall and spring*

Principles and methods for teaching middle school science concepts, skills, and processes in accordance with national and state standards with emphasis on inquiry including design, implementation, assessment and evaluation, and reflection-on-practice strategies in connection with technology, meeting all students' needs and integration across the curriculum.

EDU 347 Teaching Math in Middle Grades (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: At least 12 semester hours in mathematics including a minimum grade of B- in MAT 140 and admission to the teacher education program.**Taught: Fall and spring*

Principles and methods for teaching concepts, skills, and relationships in middle grades

mathematics in accordance with national and state standards including number/computation, geometry/measurement, probability and statistics, and algebraic ideas, and the appropriate use of manipulative and technology tools.

EDU 348 Teaching Social Studies in Middle Grades (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 12 semester hours of history, geography, economics, political science each with a minimum grade of C; pursuance of middle grades certification in social studies teaching area; admission to the teacher education program.**Taught: Fall and spring*

Theory, content, and instructional strategies for teaching social studies in the middle grades; including national and state standards.

EDU 390 Elementary Field Experience I (2 credits)*Hours: 0 classroom + 4 lab/studio**Prerequisites: Admission to the teacher education program; successful completion of EDU 307.**Co-requisites: EDU 302, EDU 314, EDS 322.**Taught: Fall and spring*

Field experiences in elementary schools; including application of instructional theory to elementary classroom settings.

EDU 391 Middle Grades Field Experience I (2 credits)*Hours: 0 classroom + 4 lab/studio**Prerequisites: successful completion of EDU 309; Admission to the teacher education program.**Co-requisites: EDU 343, EDU 344 and EDS 323.**Taught: Fall and spring*

Field experience in middle grade schools; including application of instructional theory to middle-grade classroom settings.

EDU 392 Elementary Field Experience II (2 credits)*Hours: 0 classroom + 4 lab/studio**Prerequisites: Successful completion of Elementary Practicum I.**Co-requisites: EDU 306, EDU 308, EDU 312, and EDU 315.**Taught: Fall and spring*

Advanced field experience in elementary schools; including practice in planning and implementing instructional strategies and theory.

EDU 393 Secondary Field Experience I (2 credits)*Hours: 0 classroom + 4 lab/studio**Co-requisites: EDU 319, EDU 324.**Taught: Fall and spring*

Field experience in secondary schools; including application of instructional of instructional theory to secondary classroom settings.

EDU 394 Middle Grades Field Experience II (2 credits)

Hours: 0 classroom + 4 lab/studio

Prerequisites: Successful completion of Middle Grades Practicum I.

Co-requisites: EDU 304, EDU 318, appropriate methods course.

Taught: Fall and spring

Advanced field experience in middle grades schools; including practice in planning and implementing instructional strategies and theory.

EDU 395 IECE Field Experience I (3 credits)

Hours: 0 classroom + 4 lab/studio

Prerequisites: Minimum 2.75 GPA.

Taught: Fall and spring

Practice in assessing, planning and implementing instruction in classroom early childhood settings. Pass/Fail.

EDU 396 Secondary Field Experience II (2 credits)

Hours: 0 classroom + 4 lab/studio

Co-requisites: EDU 325.

Taught: Fall and spring

Advanced field experiences in secondary schools; including practice in planning and implementing instructional strategies and theories.

EDU 397 IECE Field Experience II (3 credits)

Hours: 0 classroom + 4 lab/studio

Prerequisites: Minimum 2.75 GPA.

Taught: Fall and spring

Practice in assessing, planning and implementing instruction in non-classroom early childhood setting. Pass/Fail.

EDU 399 Independent Study (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: departmental permission.

Taught: Variable, check with department

Individualized study of a special topic under supervision of a faculty member. May be repeated for credit when topic varies.

EDU 490 Non-certification Final Field Experience (6 credits)

Hours: 0 classroom + 6 lab/studio

Prerequisites: Minimum 2.75 GPA; successful completion of EDU 395 and EDU 397, senior standing.

Taught: Fall and spring

Supervised culminating experience in programs for children and their families for students completing Early Childhood Education Non-certification track.

EDU 491 Clinical Experience in IECE (12 credits)

Hours: 0 classroom + 12 lab/studio

Prerequisites: Minimum 2.75 GPA and successful completion of EDU 395 and EDU 397.

Taught: Fall, winter, spring and summer

Supervised culminating classroom experience in schools for students completing Early Childhood Education IECE Certification track.

EDU 492 Clinical Experience Elementary with Special Education (12 credits)

Hours: 0 classroom + 12 lab/studio

Taught: Fall and spring

Classroom experiences through observing, planning, and teaching supervised by an experienced teacher; eight-week assignment to an elementary classroom grades K-5; eight week assignment to a special education program grades P-12.

EDU 493 Clinical Experience Middle Grades with Special Education (12 credits)

Hours: 0 classroom + 12 lab/studio

Prerequisites: Admission to middle grades and special education student teaching program.

Taught: Fall and spring

Classroom experiences through observing, planning, and teaching under supervision of an experienced teacher: eight-week assignment to a middle grades classroom, grades 5-9; eight-week assignment to a special education program grades P-12.

EDU 494 Clinical Experience Elementary (12 credits)

Hours: 0 classroom + 12 lab/studio

Prerequisites: admission to the elementary education student teaching program.

Taught: Fall and spring

Classroom experiences through observing, planning, and teaching under supervision of an experienced teacher; one-half semester assignment to each of two non-consecutive elementary classroom grades P-5.

EDU 495 Clinical Experience Middle Grades (12 credits)

Hours: 0 classroom + 12 lab/studio

Prerequisites: admission to the middle- grades student teaching program.

Taught: Fall and spring

Classroom experiences through observation, planning, and teaching under supervision of an experienced middle-grades teacher; grades 5-9.

EDU 496 Clinical Experience Secondary (12 credits)

Hours: 0 classroom + 12 lab/studio

Prerequisites: admission to secondary student teaching.

Taught: Fall and spring

Classroom experiences through observation, planning, and teaching under supervision of an experienced secondary teacher; full semester assignment to a secondary classroom, grades 8-12.

EDU 497 Clinical Experience Secondary with Special Education (12 credits)

Hours: 0 classroom + 12 lab/studio

Taught: Fall and spring

Classroom experiences through observing, planning, and teaching supervised by an experienced teacher; eight-week assignment in a secondary classroom grades 8-12; eight-week assignment to a special education program grades P-12.

EDU 525 Differentiated Literacy Instruction (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

This course is designed to give pre-service and in-service teachers a more in depth understanding of the need to differentiate literacy instruction to meet the needs of increasingly diverse students. Students will survey major issues in appropriate differentiated literacy instruction, with many instructional practices that will be discussed, modeled, and/or evaluated. PREREQ: Undergraduates: Admission to the Teacher Education Program; Graduates: Enrolled in the MAED Program or Permission of Instructor

EDU 530 Reading in Junior and Senior High School (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Principles and procedures related to reading in grades 8-12; basic reading skills, study skills, content fields, and reading programs. For teachers of all subjects. Required of students seeking certification to teach English.

EDU 540 Teaching the Underground Railroad (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Summer only

Research about the Underground Railroad, with an emphasis on local history, to assist teachers in classroom instruction.

EDU 544 Aquatic Ecology for Teachers (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Integration of biology, geology, meteorology, chemistry, and physical sciences to examine

water quality through field-based investigation of the Ohio River and streams. Students apply the content and skills learned during the course to the State/School District Science Standards and a lesson plan.

EDU 545 Fundamentals of Environmental Education (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Introduction to the field of environmental education, including the history and philosophy, methodologies, state initiatives, national standards, and current trends in the field.

EDU 546 Teaching Environmental Education (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

Principles and goals, curriculum models, teaching strategies, classroom and community resources, outdoor education, and research.

EDU 550 Current Trends in Early Childhood Education (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Examination of current issues, trends, public policy, and research in early childhood education.

EDU 551 Preschool Education and Programming (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to the teacher education program; EDS 360.

Taught: Variable, check with department

Overview of preschool curricula, history of early childhood education, and study of developmentally appropriate activities across subject areas.

EDU 552 Infant Toddler Education and Programming (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

The relationship of child development theory and developmentally appropriate practice in group settings for infants and toddlers.

EDU 554 Language Development and Emergent Literacy (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Overview of historical and theoretical concepts, assessment of early literacy development, and strategies for facilitating reading, writing, and language instruction across various early childhood settings.

EDU 565 Early Childhood Assessments for Screening (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

Overview of the purpose of assessment and critical components of an on-going assessment system, especially for screening young children. Course content includes analysis of recommended practices in assessment; definition of attributes that fit the purpose of assessment; and study of factors related to assessment tool rigor.

EDU 566 Ongoing Assessment in Early Childhood Education (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: EDS 562 or equivalent.

Taught: Variable, check with department

Overview of on-going curriculum-based assessment systems for observing and documenting young children's growth, development and learning.

EDU 567 Math and Science Exploration PreK-3rd (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-odd yrs

Integrated mathematics and science learning experiences from both the Early Childhood Education teacher and the students perspectives emphasizing exploration, problem-solving, and discourse. REQUIRED for IECE and Non-Certification tracks.

EDU 568 Administration and Supervision in Early Childhood Education (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to teacher education program and EDS 360.

Taught: Variable, check with department

The study of strategies and dispositions needed for managing effective early childhood programs.

EDU 569 Kindergarten Education and Programming (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Overview of kindergarten history, curricula, and study of developmentally appropriate strategies and activities across subject areas. REQUIRED for IECE and Non-Certification tracks.

EDU 575 Language Arts Methods Middle Grades (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: COEHS Advising Center permission.

Taught: Variable, check with department

Advanced objectives, curricula, and instructional strategies to teach state and national language arts standards in the middle grades.

EDU 576 Science Methods Middle Grades (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Teacher Education Department Permission.

Taught: Variable, check with department

Advanced objectives, curricula, and instructional strategies to teach state and national science standards in the middle grades.

EDU 577 Mathematics Methods Middle Grades (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Teacher Education Department Permission.

Taught: Fall and spring

Advanced objectives, curricula, and instructional strategies to teach state and national math standards in the middle grades.

EDU 578 Social Studies Methods Middle Grades (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Teacher Education Department Permission.

Taught: Variable, check with department

Advanced objectives, curricula, and instructional strategies to teach state and national social studies standards in the middle grades.

EDU 594 Topics: Education (1-3 credits)

Prerequisites: Varies with topic (see Schedule of Classes).

Taught: Variable, check with department

Various advanced topics in education.

EDU 599 Independent Study: Education (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

Individual supervised readings and study of a selected topic in education. May be repeated as topics vary.

EDG 544 Aquatic Ecology for Teachers (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

The sciences of biology, geology, meteorology, chemistry, and physical sciences are integrated to teach about water quality through field-based investigation of the Ohio River and streams. The course is taught during the summer at the Thomas More Ohio River Field Station and includes a follow-up day during September. Students apply the content and skills learned during the course to the State/School District Science Standards and a lesson plan

EDG 545 Fundamentals of Environmental Education (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

A web-based course that provides and introduction to the field of environmental education, including the basic history and philosophy, methodologies, state initiatives, national standards, and current trends in the field. Required for Kentucky Environmental Education Endorsement.

EDMT 542 Method and Pedagogy in Middle School/Secondary Business/Marketing (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Theories, methods/techniques and technologies in designing, delivering and evaluating instruction in middle school and high school business/ marketing.

EDMT 543 Method and Pedagogy in Middle School/Secondary Science (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Theories, methods, techniques and technologies in designing, delivering and evaluating instruction in middle school and high school science.

EDMT 544 Method and Pedagogy in Middle School/Secondary Math (3 credits)

Hours: 3 classroom + 0 lab/studio

Co-requisites: EDMT 696.

Taught: Fall only

Theories, methods/techniques and technologies in designing, delivering and evaluating instruction in middle school and high school mathematics.

EDMT 545 Method and Pedagogy in Middle School/Secondary Social Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Co-requisites: EDMT 696.

Taught: Fall only

Theories, methods/techniques and technologies in designing, delivering and evaluating instruction in middle school and high school social studies.

EDMT 546 Method & Pedagogy in Middle Grades LA (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 12 semester hours of language arts content course with a grade of C or better chosen from English, Speech, or Journalism and admission to the Teacher Education program.

Taught: Fall and spring

Theory, content and instructional strategies for teaching language arts in the middle grades; including national and state standards.

EDMT 594 Topics in Education (3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Variable, check with department

Individual or group in depth study.

Engineering Technology Courses (EGT)**EGT 110 Introduction to Engineering/Technology - NS (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: MAHD 099 or ACT of 22 or higher.

Taught: Fall, spring, and summer

Provides the computational skills needed to solve design problems. The course introduces concepts from introduction to computer graphics and parametric design, basic electronics, basic mechanics, and engineering calculations; technology computer applications; and spreadsheets for engineering calculations.

General education credit: Natural Science

EGT 116 Introduction to Industrial Materials and Processes (3 credits)

Hours: 2 classroom + 2 lab/studio

Taught: Fall and spring

Fundamentals of materials, processing methods, tools, and equipment used to produce metallic and nonmetallic products; destructive and nondestructive testing.

EGT 161 DC Circuit Analysis (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: MAHD 099 or ACT math 22 or higher.

Taught: Fall and spring

Basic laws and theories, voltages, current, power, and resistance; resistive circuits in direct current circuits; analysis and applications. Mesh and node equations used in circuit analysis. Same as PHY 161.

EGT 211 Quality Control (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: STA 205.

Taught: Summer only

Control and assurance of quality and reliability; management of quality function in the industrial setting.

EGT 212 Computer-Aided Drafting and Design (3 credits)

Hours: 2 classroom + 2 lab/studio

Taught: Fall and spring

Fundamentals of computer-aided drafting; production of technical drawings using CAD software; working drawings; standard machine elements; tolerance dimensioning.

EGT 260 Industrial Standards, Safety, and Codes (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

This course is designed to teach an overview of the standard or occupational health systems such as: Six Sigma, ISO 9001, ISO 1400, OSHA standards, ISO 13485, or Baldrige Criteria.

EGT 261 Engineering Materials (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: CHE 120.

Taught: Fall only

Structures, properties, applications, and failure modes of materials, both metallic and non-metallic; heat treatment and processing effects on microstructure; introduction to chemical properties; principles and applications of destructive and nondestructive testing.

EGT 265 Manufacturing Processes and Metrology (3 credits)

Hours: 2 classroom + 2 lab/studio

Prereq OR Co-req: EGT 116.

Taught: Spring only

Principles and applications of precision machining, volume production, assembly methodology, advanced concepts in manufacturing operations, and introduction to metrology (e.g. calibration, documentation, and standards are discussed).

EGT 280 Introduction to Microtechnology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PHY 211.

Taught: Summer only

Introduction to microtechnology including materials properties (physical, thermal, electrical, and mechanical), fundamentals of microfabrication including various deposition methods, photolithography, etching, LIGA electroplating, and self-assembly characterization of small structures and applications of microdevices such as MEMS sensors and actuators, accelerometers, optical switches and microfluidics.

EGT 291W Writing in Engineering Technology - WC (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or ENG 151H.

Taught: Spring only

Introduction to writing for the engineering and engineering technology professions. Defini-

tions, descriptions, presentations, reports, manuals, and proposals are covered. Reader-centered, process-driven writing and presentation skills are developed centered on the engineering professions. Open to engineering technology, pre-engineering, or others with permission of the instructor.

General education credit: Written Communication II

EGT 292 Research Experience in Engineering Technology (0 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: Consent of instructor and department chair.

Taught: Fall, spring, and summer

Original research work directed by one or more members of the engineering technology faculty. May be taken more than once. Pass/fail grade only.

EGT 300 Statics and Strength of Materials (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MAT 128 or MAT 129 and PHY 211.

Taught: Fall only

Theory and application of the mechanics of rigid bodies in equilibrium; mechanical properties of materials; stress; strain; torsion; shear force and bending moments; beam deflection; combined loading.

EGT 301 Cooperative Education in Engineering Technology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Fall, spring, and summer

This course provides students an opportunity to apply the knowledge and skills they are learning in the classroom to an employment position in business or industry. It allows students to test and refine career plans and interests; gain experience in their field of specialty before they begin searching for a permanent position; and build a network of professional contacts from which they may draw technical and employment information.

EGT 310 Project Management and Problem Solving (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: STA 205.

Taught: Fall and spring

Industrial project management practices: project implementation methods; resource selection; risks and failures; project management tools and techniques related to manufacturing projects. Problem-solving models; quantitative and qualitative decision-making strategies, including economic analysis; ethical, environmental, and social issues; impact of creative thinking, critical thinking, and problem solving

on the design and quality of products and services.

EGT 318 Introduction to Nanotechnology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: CHE 120.

Taught: Summer only

Introduction to nanotechnology, fabrication and characterization of nano-scale structures, properties of nanostructures, nanostructured materials, wires and dots, nanobiology/nano-medicine, nanomagnetism, nanotubes, nanoelectronics, and nanoelectromechanical systems.

EGT 320 Robotic Systems and Material Handling (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: EGT 161.

Taught: Spring only

Structure and operational characteristics; principles and theory of robot movement, robot teach/programming, program languages, robot arm, robot controller, work station. Material handling related to manufacturing, warehousing, type of equipment used and different concepts of material handling are covered.

EGT 321 Productivity Management, Scheduling, and Planning (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MAT 119 and EGT 211.

Taught: Fall only-even years

The integration of systems required to improve work flow through the system, scheduling and coordination of projects. Systems of time management and work simplification; analysis of manufacturing and production problems including purchasing, work methods, inventory, material handling, production planning, and cost analysis.

EGT 340 Applied Dynamics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PHY 211 and MAT 129 or MAT 227.

Taught: Spring only

Theories and applications of dynamic mechanics, including Newton's laws, work, kinetics, impulse, and momentum.

EGT 341 Integrated Resource Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: EGT 321.

Taught: Spring only-odd yrs

This course utilizes the techniques of enterprise management. The course will focus on contrast and integration strategies, JIT techniques, integration, application, and implementation.

EGT 343 AC Circuit Analysis (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: EGT 161 and MAT 119.

Taught: Spring only-odd yrs

Application of basic electrical circuit analysis to alternating current systems; capacitors, inductors, transformers, and circuits using these components. Mesh and loop analysis, multiphase.

EGT 344 Analog Electronics (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: EGT 161.

Taught: Fall only-even years

Introduction to solid state, diodes, bipolar and field-effect transistors, small-signal amplifiers; power amplifiers, voltage regulators, and active filters.

EGT 345 Digital Electronics (3 credits)

Hours: 2 classroom + 2 lab/studio

Prereq OR Co-req: EGT 161.

Taught: Fall only-even years

Digital circuits; logic, registers, counters, arithmetic circuits, and memories.

EGT 348 Electronic CAD (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: EGT 212.

Taught: Variable, check with department

Computer-aided design of electrical and electronic systems; schematic capture techniques; advanced circuit simulation.

EGT 361 Fluid Power (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: MAT 129 or MAT 227; PHY 211.

Taught: Fall only

Basic laws and concepts of fluid mechanics and their applications to fluid power circuits.

EGT 362 Tool Design and Computer Aided Manufacturing (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: EGT 116 and EGT 212.

Taught: Spring only

Design and selection of mechanical elements such as fasteners, cams, jigs, fixtures, and tools, utilizing Computer Aided Manufacturing software.

EGT 365 CNC & Manufacturing Process Planning (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: EGT 212 and EGT 265.

Taught: Fall only

Course provides knowledge needed to set up and program Computer Numerical Control (CNC) machines equipped with EIA or Conversational programming formats. The general application of information will be discussed, along with practical training on CNC machines. Topics such as: Manufacturing process planning, selecting resources for use in the execu-

tion and completion of a CNC project will be covered.

EGT 367 Microprocessors (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: EGT 345.

Taught: Fall only-even years

Architecture and instruction sets; programming, interfacing, and designing with microprocessors.

EGT 380 Machine Design (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: EGT 300 or EGT 340.

Taught: Fall only

Techniques involved in designing and selecting individual machine parts. An integrated approach to the design of machine elements.

EGT 386 Electro-Mechanical Instrumentation and Control (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: EGT 161.

Taught: Fall only

Introduction to the design of instrumentation and control systems. Study of thermal, mechanical, optical, and digital sensor operations and applications. Introduction to data acquisition systems. Laboratory experimentation involving the programmable logic controls for designing different logics to control devices and selecting sensors to gather and utilize data from the equipment at hand.

EGT 394 Special Topics (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Junior Standing.

Taught: Variable, check with department

Focused study of a specific topic. Topics vary from semester to semester. May be repeated once for credit.

EGT 396 Undergraduate Laboratory Assistant (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Engineering Technology GPA of at least 3.0, Junior standing and consent of instructor.

Taught: Fall, spring, and summer

Participation in planning, setting-up, teaching, conducting reviews, and testing for an undergraduate laboratory course. For students majoring in engineering technology. Repeatable for a maximum of 6 semester hours. Not applicable to major or minor.

EGT 399 Independent Study: Engineering Technology (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Consent of advisor.

Taught: Variable, check with department

For advanced students seeking to study selected problems.

EGT 404 Signals and Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: EGT 343 and MAT 227 or MAT 129.

Taught: Spring only-odd yrs

Advanced circuit analysis techniques; time domain and frequency domain solutions; Laplace transforms; z-transforms; Fourier analysis; discrete-time systems.

EGT 405 Metrology and Geometric Tolerancing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: EGT 211 and EGT 212.

Taught: Spring only-even yrs

Metrology requirements and geometric tolerancing; calibration systems, gauge studies, measurement elements, analysis and presentation of measurement data, quality implications.

EGT 408 Mechatronics Topics (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: EGT 386.

Taught: Fall only-even years

Design, optimization, and simulation of electronic, mechanical, and control systems. Applications and case studies in system control, electromechanical systems, and intelligent adaptive systems.

EGT 411 Quality Assurance and Auditing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: EGT 211.

Taught: Variable, check with department

Organizing and implementing the quality audit; types of audits; ISO 9000 quality standards; audit planning, execution, testing, reliability, and system appraisal.

EGT 412 Advanced CADD (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: EGT 212.

Taught: Fall only

Advanced features of three dimensional and parametric modeling, using one of the common parametric (CADD) packages.

EGT 417 Senior Design in Technology (3 credits)

Hours: 1 classroom + 4 lab/studio

Prerequisites: senior standing.

Taught: Fall, spring, and summer

Preparation and proposal for the capstone project design in an area of student's primary program major. After the preparation and proposal is prepared, with permission from their advisors, students design, build, document, demonstrate, and present the results. Must be taken within three semesters of graduation, may be repeated up to 9 semester hours.

EGT 423 Planning and Design of Industrial Facilities (3 credits)

Hours: 1 classroom + 4 lab/studio

Prerequisites: EGT 212.

Taught: Spring only

Planning, estimating, designing, and modeling industrial facilities; management, personnel, production, aesthetics, and the environment.

EGT 448 Network Hardware (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: EGT 345.

Taught: Fall only-even years

Concepts and examples of network hardware used in data communications, including introduction to advanced concepts. Transmission media, data links, multiplexing, carrier systems, digital transmission systems, routers, interfaces, data transmission.

EGT 450 Thermodynamics and Heat Transfer (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: MAT 129 or MAT 227, and PHY 211.

Taught: Spring only

Fundamentals of thermodynamics, first and second laws of thermodynamics, properties of liquids and gases; air-conditioning and refrigeration systems; power cycles; modes of heat transfer (conduction, convection, and radiation and their applications in technology); computer simulations of thermodynamics and heat transfer processes.

EGT 462 Finite Element Modeling (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: EGT 412.

Taught: Spring only

Fundamentals of finite element modeling, creation of geometry, material selection, and problem solving. The course focuses on FEA modeling techniques utilizing CAD/CAE software.

EGT 465 Automated Manufacturing Systems (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: EGT 320 and EGT 365.

Taught: Spring only

Integrated manufacturing automation including CIM/FMS, system controls, fixed systems, robotics, and economics of automation.

EGT 467 Advanced Microprocessors (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: EGT 345.

Taught: Spring only-even yrs

Advanced architectures, multitasking, virtual memory, networking, assembly language.

Electronic Media and Broadcasting (EMB)

EMB 100 Media Literacy - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Fundamental concepts of mediated communication; analysis of roles, functions, and influence of media on individuals and society. This course will cast a critical eye on the media that we interact with each day: radio, television, newspapers, magazines, books, films, and the Internet. We will dissect media's history and its vast reach into our daily lives and culture. The goal of this course is to stimulate your critical thinking concerning media and its effects, both historically and currently, and to make you as a student and consumer more aware of the power that media and media companies hold. After taking this course you should be able to recognize, interpret, encode and articulate your opinions on media messages.

General education credit: Culture and Creativity

EMB 105 Race, Gender, and the Mass Media - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Mass Media's influence on perceptions of race and gender in the U.S. and abroad—the local, national and international influence of economics, politics, cultural diversity, and education on your life and society as portrayed through the mass media; historical development of the portrayals of white women and men and women and men of color from diverse cultures in the U.S. and International mass media; impact of cultural and socioeconomic differences between local, national and international communities on media production and use; influence of cultural and socioeconomic differences in shaping and understanding personal world views.

General education credit: Cultural Pluralism

EMB 110 Introduction to Mass Media (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Introduction to program and profession; organization, operations, programming, audience measurement, and impact of electronic media; legal, economic and social controls of radio, TV, cable, new media, and corporate media within a historical framework.

EMB 140 Introduction to Media Aesthetics (3 credits)

Hours: 2 classroom + 4 lab/studio

Taught: Fall and spring

Introduction to the aesthetics and basic technologies of creating audio, video and interactive media. A course grounded in theoretical concepts with practical application.

EMB 210 Single Camera Production (3 credits)

Hours: 2 classroom + 4 lab/studio

Prerequisites: Completion of EMB 140 with a C or better.

Taught: Fall and spring

Introduction to small format, video program design and development; theory and practice of single camera storytelling and editing.

EMB 215 Introduction to Audio Production (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Completion of EMB 140 with a C or better.

Taught: Fall and spring

Theory and practice in planning and producing audio program elements typical of the present industry; coordinating the control console; audio recording, mixing, and editing in a digital audio workstation.

EMB 230 Broadcast Announcing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Completion of EMB 215 with a C or better.

Taught: Variable, check with department

Theory and practice in delivery techniques for media, including work on voice, diction, and pronunciation; development of a cultural framework essential for versatility in announcing; interpretation of the most commonly used scripts in broadcasting; the studio interview.

EMB 260 Writing for the Media (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Successful completion of General Education Written Communication II requirement.

Taught: Fall and spring

Non-journalistic writing techniques and styles used in television and radio including narrative and documentary modes of story telling.

EMB 305 Multicamera Video Production (3 credits)

Hours: 2 classroom + 4 lab/studio

Prerequisites: Completion of EMB 210 and EMB 215 with a C or better.

Taught: Fall and spring

Principles and techniques of directing both scripted and non-scripted multi-camera studio-based productions; examination of problems of the director and aesthetics of television; discussion, selected readings, and productions.

EMB 307 Broadcast Programming (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Completion of EMB 110 with a C or better.

Taught: Spring only

Strategies of program selection, scheduling, and evaluation; audience ratings, research, and analysis.

EMB 310 Advanced News Production (3 credits)

Hours: 2 classroom + 4 lab/studio

Prerequisites: Completion of EMB 140 or JOU 230 with a C or better.

Taught: Fall and spring

Advanced electronic news gathering and electronic field production techniques with emphasis on broadcast quality scripting, taping, and editing.

EMB 311 History of Broadcasting (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Completion of EMB 110 with a C or better.

Taught: Variable, check with department

Development of electronic media, principally in the U.S., from their origin as 19th century instruments of science to the present; broadcasting as a vehicle of expression and as an industry.

EMB 313 Media Sales, Advertising, and Promotion (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

An examination of the principles and problems associated with valuing, selling, and promoting media. Includes campaign development, the valuation of air time, working inside and outside a network environment and the use of alternative media outlets.

EMB 315 Media Performance (3 credits)

Hours: 2 classroom + 4 lab/studio

Prerequisites: Completion of EMB 230 with a C or better.

Taught: Variable, check with department

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 Audio Production (3 credits)

Hours: 2 classroom + 4 lab/studio

Prerequisites: Completion of EMB 215 with a C or better.

Taught: Variable, check with department

Practicum in advanced audio production including multitrack recording and mixing.

EMB 325 Advanced Media Performance (3 credits)

Hours: 2 classroom + 4 lab/studio

Prerequisites: Completion of EMB 315 with a C or better.

Taught: Variable, check with department

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 370 International Media Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Completion of EMB 110 with a C or better.

Taught: Variable, check with department

Regional and global telecommunications and media systems in relation to social, cultural, economic, and political factors: comparative analysis of the major media systems of the world.

EMB 380 Documentary Theory and History (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Completion of EMB 140 with a C or better.

Taught: Spring only

Development of film and television documentary mode; theoretical paradigms used to critically study documentaries.

EMB 394 Topics: Electronic Media & Broadcasting (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Varies according to topic.

Taught: Variable, check with department

Focused study of a specific and significant topic concerning electronic media and broadcasting. Topics vary from semester to semester. May be repeated for a maximum of 6 credit hours.

EMB 396 Internship: Electronic Media and Broadcasting (3-6 credits)

Hours: 0 classroom + 12-24 lab/studio

Prerequisites: Written consent of the supervising faculty member; junior or senior standing; GPA of at least 2.75.

Taught: 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)

Hours: 0 classroom + 12 lab/studio

Prerequisites: Written consent of instructor.

Taught: Variable, check with department

Practical application of various broadcasting techniques. May be repeated for a maximum of 6 semester hours.

EMB 400 Media Criticism (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Completion of EMB 110 with a C or better; junior or senior standing.

Taught: Fall and spring

Seminar designed to develop an increased sensitivity to the effectiveness of broadcasting in fulfilling its societal role both as an art form and as a vehicle for the dissemination of information to society. Criteria of criticism are developed largely in response to broadcast programming.

EMB 421 Advanced Narrative Production (3 credits)

Hours: 2 classroom + 4 lab/studio

Prerequisites: Completion of EMB 210 with a C or better.

Taught: Spring only

Theory and practice of digital cinema production through the pre-production, production and post-production on individual student projects. Working alone and in groups students will develop their cinematic storytelling skills while creating short films.

EMB 422 Advanced Digital Video Editing (3 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: Completion of EMB 210 with a C or better.

Taught: Fall and spring

Concepts and techniques of digital, non-linear video editing.

EMB 423 Documentary Production (3 credits)

Hours: 2 classroom + 4 lab/studio

Prerequisites: Completion of EMB 210 with a C or better.

Taught: Fall only

This course involves planning and producing video documentaries. Students will develop the tools to tell reality-based stories, to document and give voice to ideas and perspectives on events from our shared world to raise public awareness about social matters.

EMB 424 Digital Cinema Projects (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Completion of EMB 210 with a C or better.

Taught: Variable, check with department

This course introduces students to all aspects of pre-production, production and post-production of a single digital cinema

project. Students will be immersed in a real-world production environment, allowing observation of all areas of the production process while participating in a single role, resulting in a professional-quality finished product. May be repeated for a maximum of 6 semester hours.

EMB 425 Studio 89 (3 credits)

Hours: 2 classroom + 4 lab/studio

Prerequisites: Completion of EMB 210 with a C or better.

Taught: Variable, check with department

This course is a hands-on practical class that utilizes television multi-camera skills to produce an in-studio music program for television distribution. This course augments WKNU "Studio 89" live studio concert with a multi-camera video production. May be repeated for a maximum of 6 semester hours.

EMB 426 Video Compositing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Completion of EMB 210 with a C or better.

Taught: Variable, check with department

This course introduces the theory and aesthetics elements germane to and creation of composited graphics and video. Students will create their own composite projects using provided and self-created elements.

EMB 435 Advanced Media Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior standing.

Taught: Variable, check with department

This course explores a genre of media along with the historical position, development and social significance of the genre. The specific approach and genre may vary with each session.

EMB 450 Screenwriting (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Completion of EMB 260 with a C or better.

Taught: Fall and spring

Practice in creative writing for broadcast or cinema, stemming from original stories and those based upon existing works.

EMB 460 Producing Seminar (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in EMB 110.

Taught: Fall and spring

This course trains students to develop movies, documentaries and television programs. Addresses planning, organizing, budgeting, motivation, staffing, and controlling media productions of various scales.

EMB 495 Special Topics: Study Abroad (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Varies by topic.

Taught: Variable, check with department

Varies by topic. Course includes a classroom portion and a trip abroad.

EMB 499 Independent Study (1-3 credits)

Hours: 0 classroom + 4-12 lab/studio

Prerequisites: Junior or senior standing; minimum GPA of 2.50; written consent of instructor.

Taught: Variable, check with department

Individually supervised work involving reading, research and/or production in a specified area of interest. Topic selected before registration in conference with instructor. May be repeated for a maximum of 6 semester hours.

English Courses (ENG)**ENG 101 College Writing - WC (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: English and Reading

ACT/SAT/COMPASS/IELTS/TOEFL scores as announced in current Schedule of Classes; OR placement test; OR, depending upon placement, completion of ENGD 090, ENGI 099 and/or RDG 091, or transfer equivalent with a C- or better.

Taught: Fall, spring, and summer

Study and practice of writing with attention to audience, purpose, and conventions appropriate to writing situation; reading, writing, and analyzing a variety of texts, including written, digital, or visual.

General education credit: Written Communication I

ENG 151H Honors Freshman Composition - WC (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 26 or above on the current ACT or comparable score on the enhanced ACT, or equivalent; evidence of writing proficiency; approval of department.

Taught: Fall and spring

Advanced study and practice of writing with attention to both narrative and rhetorical writing strategies; attention to audience, purpose, and conventions appropriate to writing situations; reading, writing, and analyzing a variety of texts, including written, digital, or visual.

General education credit: Written Communication II, General education credit: Written Communication I

ENG 200 Understanding Literature - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Students will develop skills in critical thinking and in understanding multiple perspectives and

identities through the study of fiction, poetry, drama, and visual narrative.

General education credit: Culture and Creativity

ENG 201 Ideas in Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or ENG 151 or equivalent and sophomore standing.

Taught: Variable, check with department

Works representing a variety of literary forms and reflecting a common theme or motif. Topics vary.

ENG 202 Survey of British Literature I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or 151 or equivalent.

Taught: Fall and spring

Anglo-Saxon period to the 18th century; emphasis on more important writers, with attention to their cultural background.

ENG 203 Survey of British Literature II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or 151 or equivalent.

Taught: Fall and spring

Romantic period to the present; emphasis on more important writers with attention to their cultural background.

ENG 204 Introduction to Writing Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or ENG 151.

Taught: Fall only

An introduction to the study of written communication with an emphasis on histories and models of writing, textual analysis, and technologies of writing. Students will investigate a variety of genres in professional writing, public writing, personal and autobiographical writing, writing for new media, and persuasive writing.

ENG 205 Contemporary Issues in Writing Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or ENG 151 or equivalent.

Taught: Variable, check with department

Investigation into specific contemporary issues in Writing Studies, such as gender, writing for racial justice, and writing with multimedia.

ENG 206 Western World Literature I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or 151 or equivalent.

Taught: Fall only

Important works of continental European literature, in translation, from its origins to the Renaissance.

ENG 207 Western World Literature II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or 151 or equivalent.

Taught: Variable, check with department

Important works of continental European literature, in translation, from the Renaissance to the present; ideas, techniques, and influences.

ENG 208 Survey of American Literature I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or 151 or equivalent.

Taught: Fall and spring

Beginnings to the Civil War.

ENG 209 Survey of American Literature II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or 151 or equivalent.

Taught: Fall and spring

Civil War to the present.

ENG 213 Global Viewpoints in Literature - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Encourages critical thinking and the understanding of perspectives and identities in a global and historical context through the study of narrative, poetry, drama, and film.

General education credit: Global Viewpoints

ENG 214 Literature Across History - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Major works of fiction, non-fiction, poetry, and drama in American, British, or World history.

General education credit: Culture and Creativity

ENG 215 Greek and Roman Mythology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or ENG 151 or equivalent.

Taught: Variable, check with department

Survey of classical pantheon of gods and heroes and their development from early Greek civilization to imperial Rome; influence of classical mythology on later national literatures.

ENG 217 African-American Literature to 1940 (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101, 151 or equivalent.

Taught: Fall only-odd years

Works by African American authors 1746-1940. Cultural, historical, and social issues with focus on development of field as a distinct tradition.

ENG 218 African-American Literature 1940-Present (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101, 151 or equivalent.

Taught: Spring only-even yrs

Works by African American authors 1940-present. Cultural, historical, and social issues with focus on development of field as a distinct tradition.

ENG 231 Introduction to Creative Writing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or 151 or equivalent.

Taught: Fall and spring

Creative writing, emphasis on composing fiction and/or poetry.

ENG 250 Introduction to English Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or ENG 151.

Taught: Fall and spring

Introduces students to the conventions, methodologies, assumptions and concerns of English Studies as a discipline, as well as to areas of specialization within the field.

ENG 291 Advanced College Writing - WC (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101; Sophomore standing, at least 30 credit hours.

Taught: Fall, spring, and summer

Study and practice of writing in a variety of expository forms, with attention to audience, purpose, and conventions appropriate to writing situation; emphasis on research-based writing and persuasive strategies.

General education credit: Written Communication II

ENG 300 American Women Poets (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 151H, ENG 291 or equivalent.

Taught: Variable, check with department

Lives and works of selected poets, including African-Americans. IDENTITIES.

ENG 301 American Novel (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 151H, ENG 291 or equivalent.

Taught: Variable, check with department

Novels from various periods; techniques, ideas, and social implications. GENRES.

ENG 302 Literature and Film - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or ENG 151H or equivalent.

Taught: Fall and spring

The art of film and its relationship to literature; films shown are cinematic versions of literary texts or have special relationships to literature. General education credit: Culture and Creativity

ENG 304 Introduction to Post-Colonial Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 151H, ENG 291 or equivalent.

Taught: Variable, check with department

Fundamental concepts of Post-Colonial literature. A variety of literary forms and works by major postcolonial and diasporic writers. Issues of literary representation and canon formation during the later half of the twentieth century. IDENTITIES.

ENG 305 American Women Writers (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 151H, ENG 291 or equivalent.

Taught: Variable, check with department

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)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101, 151, or equivalent.

Taught: Fall only

Study of writers in two or more ethnic American literatures e.g., American Indian, African American, Asian American, and Latino. IDENTITIES.

ENG 308 Shakespeare I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 151H, ENG 291 or equivalent.

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)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 151H, ENG 291 or equivalent.

Taught: Fall and spring

Plays not studied in ENG 308, including the romances, satires, and tragedies. TRADITIONS (PRE-1800, PRE-1900).

ENG 313 Middle Eastern Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 151H, ENG 291 or equivalent.

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)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 151H, ENG 291 or equivalent.

Taught: Variable, check with department

Nonsectarian presentation of biblical history, ideas and literary forms and techniques. GENRES.

ENG 316 Social Issues in Literature - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or ENG 151H or equivalent.

Taught: Fall and spring

Allows students to develop skills in critical thinking and in understanding multiple perspectives and identities through the study of how literature represents social issues related to culture, politics, identity, technology, etc.

General education credit: Culture and Creativity

ENG 318 The Short Story (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 151H, ENG 291 or equivalent.

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)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 151H, ENG 291 or equivalent.

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)

Hours: 3 classroom + 0 lab/studio

Taught: Fall 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. PREREQ ENG 101, 151H or equivalent.

ENG 324 Holocaust Literature (3 credits)*Hours: 3 classroom + 0 lab/studio**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)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 151H, ENG 291 or equivalent.**Taught: Variable, check with department*

Environmentally-focused works representing a variety of literary forms and genres issues include culture, identity, gender, ecology, and sense of place. IDENTITIES.

ENG 331 Persuasive Writing (3 credits)*Hours: 3 classroom + 0 lab/studio**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)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 231.**Taught: Variable, check with department*

Techniques of short story, novelette, novel, and drama in-class analysis of student work and the subsequent revision, reevaluation, and marketing of student writing. CREATIVE WRITING.

ENG 334 Poetry Writing (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 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)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 231.**Taught: Variable, check with department*

Students hone craft and voice while writing and workshopping creative nonfiction. CREATIVE WRITING.

ENG 338 Writing for Social Change (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 291, ENG 151, or equivalent.**Taught: Fall only*

Study and practice in activist writings, with particular attention paid to the writings of social justice movements. May involve direct contact work in a local community outside the university. WRITING STUDIES.

ENG 340 Business Writing (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 291 or equivalent.**Taught: Fall and spring*

Practical experience in business writing proposals, resumes, letters, reports, and memoranda. For students majoring in business as well as other students who anticipate professional careers involving on-the-job writing tasks. WRITING STUDIES.

ENG 345 Legal Writing (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 291 or equivalent.**Taught: Variable, check with department*

The writing of legal arguments; logical reasoning, clarity, conciseness, grammar, punctuation. For those considering or pursuing careers in law or other professions involving the writing of contracts and legal documents. Counts towards literature and writing option for the English major. WRITING STUDIES.

ENG 347 Technical Writing (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 291 or equivalent.**Taught: Fall and spring*

Principles and techniques of technical writing, including proposals, lab reports, job applications, graphics, and feasibility studies. Recommended for students in sciences, public administration, social services, industry, and health and computer fields. Prepares students for cooperative writing internships in industries or agencies. WRITING STUDIES.

ENG 348 Professional Editing in the Workplace (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 291 or equivalent with C or better.**Taught: 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)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 291 or equivalent.**Taught: Fall only*

Theoretical and practical grounding in analyzing, planning, and implementing web-based publications, including integration of 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 Critical Theory (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 250 or permission of instructor.**Taught: Fall and spring*

Introduction to theories of critical interpretation in literary studies. Various approaches to be introduced and applied to literary texts.

ENG 351 Rhetorical Theories & Writing Practices (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 204 and ENG 250.**Taught: Variable, check with department*

Introduction to rhetorical theory and the ways that rhetorical theory informs the practice of writing.

ENG 353 Contemporary American Novel (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 151H, ENG 291 or equivalent.**Taught: Variable, check with department*

Themes and techniques of particular importance in contemporary American novels. GENRES.

ENG 357 Biographical Writing (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 6 semester hours of literature.**Taught: Variable, check with department*

Reading, writing about, and writing biography theory, practice, and analysis of biography as literary genre. CREATIVE WRITING.

ENG 358 Writing in Creative Genres (3 credits)*Hours: 3 classroom + 0 lab/studio**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)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 291 or equivalent.

Taught: Variable, check with department

Principles and techniques of workplace writing in a specialized genre, such as business report writing, manual writing, grant writing, proposal writing, etc. In-class analysis of student work with subsequent revisions. Repeatable for 3 credit hours when genre changes. WRITING STUDIES.

ENG 362 Studies in Dramatic Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 151H, ENG 291 or equivalent.

Taught: Variable, check with department

Study of various periods and kinds of dramatic literature. May be repeated when topics vary.

ENG 365 American Folklore (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 151H, ENG 291 or equivalent.

Taught: Fall and spring

Study of oral, customary, and material genres of folklore in different American folk groups.

ENG 366 Studies in Literary Genres (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 151H, ENG 291 or equivalent.

Taught: Variable, check with department

Study of one or more genres from various periods and cultures; techniques, structures, sub-genres, and themes. May be repeated as topics vary. GENRES.

ENG 368 The Graphic Novel (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 semester hours of literature.

Taught: Variable, check with department

This course critically examines the genre of the graphic novel, paying special attention to narrative techniques. GENRES.

ENG 371 Traditional Grammar (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or ENG 151H with a grade of C or better.

Taught: Fall and spring

This course provides an understanding of sentence parts and patterns, punctuation, usage, and sensitivity to style. Such instruction in traditional grammar can help students (a) write correctly and effectively, (b) apply logical thinking, (c) become wise analysts of texts, and (d) teach others conventional uses of language. WRITING STUDIES.

ENG 380 Studies in Literature and Other Arts (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 151H, ENG 291 or equivalent.

Taught: Spring only-odd yrs

Literary works compared with musical compositions, with paintings, or with both music and painting. May be repeated for credit when topics vary. GENRES.

ENG 381 Introduction to Linguistics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of English; junior standing.

Taught: Fall only-odd years

Methods of analyzing language. Satisfies the linguistics requirement for English majors seeking secondary certification.

ENG 382 History of the English Language (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of English; junior standing.

Taught: Fall only-even years

Development of English from Indo-European to the present; internal and external influences resulting in change. Satisfies the linguistics requirement for those seeking secondary certification in English. GENRES.

ENG 384 Modern Poetry (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 151H, ENG 291 or equivalent.

Taught: Variable, check with department

Prosodic theory practice in interpretation of poetic texts. GENRES.

ENG 385 Teaching of English I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prereq OR Co-req: Admission to Teacher Education Program or valid secondary teaching certificate; EDU 311.

Taught: Fall only

Combination of theoretical and practical problems in the teaching of writing and grammar. Required of all students majoring in English who seek secondary certification.

ENG 386 Children's Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 semester hours of literature.

Taught: Fall and spring

For students seeking provisional certification in elementary education.

ENG 387 Teaching of English II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: admission to teacher educational program or valid secondary teaching certificate.

Taught: Fall only

Combination of theoretical and practical problems in the teaching of literature. Required of those seeking secondary certification in English.

ENG 394 Topics (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Explores topic not included in regular English curriculum. May repeat for credit if topics vary.

ENG 399 Independent Study (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Directed study.

ENG 401 Chaucer (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of literature.

Taught: Variable, check with department

Study of Geoffrey Chaucer's poetry, including the Canterbury Tales and possibly Troilus and Criseyde, the shorter poems, and/or post-medieval transmissions of Chaucer's works. TRADITIONS (PRE-1800, PRE-1900).

ENG 402 Middle English Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 semester hours of literature.

Taught: Variable, check with department

Comparative study of the rhetoric, contexts, and uses of pre-1800, pre-1900 exploration and travel narratives, particularly those depicting cross-cultural encounters and non-western landscapes. TRADITIONS.

ENG 403 Old English (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of literature.

Taught: Variable, check with department

Language and literature of Anglo Saxon England. TRADITIONS (PRE-1800, PRE-1900).

ENG 404 Arthurian Legend (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of literature.

Taught: Variable, check with department

Advanced study of medieval origins of the legend of King Arthur. May also consider post-medieval transmission of the Arthurian tradition in literary texts, film, etc. TRADITIONS (PRE-1800, PRE-1900).

ENG 411 Elizabethan Literature (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 hours of literature.**Taught: Variable, check with department*

The period of Marlowe, Sidney, Spenser, and Shakespeare. TRADITIONS (PRE-1800, PRE-1900).

ENG 412 Seventeenth Century Literature (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 hours of literature.**Taught: Variable, check with department*

Dramatic works written in Elizabethan and Jacobean England. TRADITIONS (PRE-1800, PRE-1900).

ENG 414 English Renaissance Drama (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 hours of literature.**Taught: Variable, check with department*

Shakespeare's predecessors and contemporaries. Pre-1800 British Literature credit. GENRES.

ENG 418 Gender and Early Modern Literature (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 hours of literature.**Taught: Variable, check with department*

Explores constructions of femininity and masculinity in literature of the early modern period (Renaissance and/or 17th and 18th centuries). IDENTITIES.

ENG 420 Pre 1800 Exploration/Travel Literature (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 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. TRADITIONS.

ENG 421 Restoration and Eighteenth Century Literature (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 hours of literature.**Taught: Variable, check with department*

Significant works of literature written between 1660 and 1798; satire, comedy of manners, novel, and poetry in the context of social backgrounds. TRADITIONS (PRE-1800, PRE-1900).

ENG 422 Studies in Eighteenth Century Literature (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 hours of literature.**Taught: Variable, check with department*

Ideas and themes in several works, or in a single major writer, or in a circle of writers;

content varies. May be repeated for credit when content varies. TRADITIONS (PRE-1800, PRE-1900).

ENG 425 Eighteenth Century British Novel (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 hours of literature.**Taught: Variable, check with department*

Critical approaches to selected novels by British authors ranging from Daniel Defoe and Samuel Richardson to Frances Burney and Jane Austen; novelistic modes such as picaresque, epistolary, gothic, and novel of manners. TRADITIONS (PRE-1800, PRE-1900).

ENG 430 Advanced Poetry Writing (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 231.**Taught: Variable, check with department*

Intensive advanced practice in poetry writing, concentrating on form and poetics. CREATIVE WRITING.

ENG 431 Screenwriting (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 231 or equivalent.**Taught: Variable, check with department*

Analysis of professional and student screenplays completion of a script for feature length film, episode of a contemporary TV show, adaptation of a novel or short story, docudrama, or documentary film. CREATIVE WRITING.

ENG 432 Novel Writing (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 231.**Taught: Fall only*

Explores the particular requirements of the novel form. Examines the creation of effective characterization, setting, themes and plots. Demands substantial reading, writing, and outside research. CREATIVE WRITING.

ENG 433 Novel Writing II (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 432.**Taught: Spring only-odd yrs*

Continuation of Novel Writing I focusing on issues specific to writing the middle and ending of a novel. CREATIVE WRITING.

ENG 442 Studies in British Literature (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 hours of literature.**Taught: Variable, check with department*

Works reflecting a common theme, genre, or literary movement. May be repeated for credit when topics vary. Post-1800 British Literature credit. TRADITIONS.

ENG 446 British Novel (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 hours of literature.**Taught: Variable, check with department*

Selected novels from various periods narrative technique, historical context, and social implications. GENRES.

ENG 450 Capstone in English Studies (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: ENG 250 and senior standing.**Taught: Fall and spring*

Spring Explores major questions, ideas, and practices in English Studies, culminating in a project that applies skills and knowledge acquired in training as English majors.

ENG 451 British Romanticism (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 hours of literature.**Taught: Variable, check with department*

Genius, originality, irony, Christianity, nature, symbol, and myth in major romantic poets. TRADITIONS (PRE-1900).

ENG 452 Victorian Literature (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 hours of literature.**Taught: Variable, check with department*

Poetry, fiction, prose, and myth in the age of Tennyson, Hardy, Carlyle, and Eliot. TRADITIONS (PRE-1900).

ENG 455 British Narrative Fantasy (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 hours of literature.**Taught: Variable, check with department*

Survey of British narrative fantasy from the Middle Ages through the 21st century. GENRES.

ENG 456 The Gothic in Literature and the Arts (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 hours of literature.**Taught: Variable, check with department*

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)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 hours of literature.**Taught: Variable, check with department*

Major authors of 19th century American fiction, essays, and poetry. May be repeated once for credit when topics vary. TRADITIONS (PRE-1900).

ENG 462 Modern American Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of literature.

Taught: Variable, check with department

Trends in form and content in 20th century American writing. May be repeated once for credit when topics vary. TRADITIONS (POST-1900).

ENG 463 Studies in Regional American Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of literature.

Taught: Variable, check with department

Various regional literatures, e.g., those of Kentucky and southern Appalachia. May be repeated for credit when topics vary. IDENTITIES.

ENG 464 Studies in American Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of literature.

Taught: Variable, check with department

Works reflecting a common theme, genre, era, or literary movement. May be repeated for credit when topics vary. TRADITIONS.

ENG 467 Studies in African-American Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 semester hours of literature.

Taught: Variable, check with department

Various periods and kinds of African American literature: issues of ethnicity/race and sex/gender; cultural, political, economic, and social issues. May be repeated when topics vary. IDENTITIES.

ENG 468 Gender in 19th-Century American Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of literature.

Taught: Variable, check with department

Investigates ways in which gender informs literature in 19th century American society and how literature reflects gender. IDENTITIES.

ENG 470 Twentieth Century British Novel (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of literature.

Taught: Variable, check with department

Aesthetic and analytical approach to major British novels of the 20th century. GENRES.

ENG 472 Studies in British Modernism (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 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 Modern-

ism, 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)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 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)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of literature.

Taught: Variable, check with department

Twentieth-century literature written primarily after WWII and representing a conscious attempt to move beyond the modes and thematic 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)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department

Development of major themes, techniques, and theories of post-colonial writing, including issues of appropriation, literary hybridity, cultural hegemony, and Otherness. IDENTITIES.

ENG 477 Irish Literary Renaissance (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of literature.

Taught: Variable, check with department

Works associated with the Irish Literary Renaissance (1880-1939), a movement dedicated to creating a literature based on Irish history, legend, and folklore. Writers may include Yeats, Joyce, Synge, Gregory, O'Casey. IDENTITIES.

ENG 494 Senior Seminar (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of literature.

Taught: Variable, check with department

Intensive study of a specific topic or problem.

ENG 496 Internship: Various (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: ENG 291, ENG 151, or equivalent, with department approval.

Taught: Variable, check with department

Duties associated with on-or-off-campus, paid or unpaid, employment in business, government, education, or the nonprofit sector, which involve substantial work in writing and/or editing projects, under the supervision of a

faculty member in the English Department. May be repeated to a total of 6 semester hours.

ENG 497 Projects: Writing (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: written consent of a full-time member of the Faculty of English.

Taught: Variable, check with department

Independent study for advanced students undertaking projects in creative, expository, or journalistic writing. May be taken twice for a total of 6 semester hours.

ENG 499 Independent Study of British Literature (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of literature and consent of instructor.

Taught: Variable, check with department

Open to outstanding students.

ENG 500 Poetry (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semesters of literature at the undergraduate level or graduate standing.

Taught: Variable, check with department

Advanced study of poetry. May be repeated for credit when topics vary. GENRES.

ENG 501 Drama (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semesters of literature at the undergraduate level or graduate standing.

Taught: Variable, check with department

Advanced study of dramatic literature. May be repeated for credit when topics vary. GENRES.

ENG 505 Medieval Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semesters of literature at the undergraduate level or graduate standing.

Taught: Variable, check with department

Advanced study of literature from the Medieval period. May be repeated once for credit when topics vary. TRADITIONS (PRE-1800, PRE-1900)

ENG 515 Readings in Western Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semesters of literature at the undergraduate level or graduate standing.

Taught: Variable, check with department

Advanced study of literature from the Renaissance. May be repeated once for credit when topics vary. TRADITIONS (PRE-1800, PRE-1900)

ENG 525 Restoration and 18th-Century Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semesters of literature at the undergraduate level or graduate standing.

Taught: Variable, check with department

Advanced study of Restoration and 18th-century literature. May be repeated once

for credit when topics vary. TRADITIONS (PRE-1800, PRE-1900)

ENG 530 Readings in the English Language (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of literature at the undergraduate level.

Taught: Fall and spring

Topics about the language and its use: specialized readerships, applications, and theories. May be repeated for credit when topics vary.

ENG 531 English Grammar for Teachers of ESOL (2 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester units of literature and consent of instructor.

Taught: Variable, check with department

Review of English grammar from pedagogical point of view. Does not count toward English major.

ENG 541 Linguistics for Teachers of ESOL (2 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester units of literature and consent of instructor.

Taught: Variable, check with department

Overview of linguistics for teachers of ESOL. Does not count toward English major.

ENG 542 Teaching and Practice/Creative Writing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: graduate standing or consent of instructor.

Taught: Variable, check with department

Activities, materials, objectives, theory, practice, and curricula for teaching writing at the middle and secondary school levels. Does not satisfy methods course requirements for any Kentucky teaching certificate program.

ENG 544 Research/Methods in Professional Writing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Graduate standing or consent of instructor.

Taught: Variable, check with department

Introduction to key theories and research methods in professional writing. WRITING STUDIES.

ENG 546 Grant Writing (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Theory and practice of preparing and analyzing grant applications. Special focus on the grant process in academic settings. WRITING STUDIES. Open to graduate students and, with permission of instructor, advanced undergraduate students.

ENG 550 Playwriting Workshop (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Intensive exploration of playwriting theory, approach, creativity, and style. Focus on developing the individual playwright's method and practice through creation of drama, research, and engagement with the theater community.

ENG 552 Screenwriting Workshop (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Advanced exploration of the elements and techniques of film production and screenwriting. Focus on style and form; camera, geography, staging, balance, timing, and rhythm; business analysis of films and screenplays; and role of the screenwriter and other personnel.

ENG 556 Composition Theories (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: six semesters of literature at the undergraduate level or graduate standing.

Taught: Variable, check with department

Advanced study in composition/rhetoric. May be repeated for credit when topics vary.

ENG 560 American Literature Before 1865 (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: six semester of literature at the undergraduate level or graduate standing.

Taught: Variable, check with department

Advanced study of American literature written before 1865. May be repeated once for credit when topics vary. TRADITIONS (PRE-1900)

ENG 565 American Literature After 1865 (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: six semesters of literature at the undergraduate level or graduate standing.

Taught: Variable, check with department

Advanced study of American literature written after 1865. May be repeated once for credit when topics vary. TRADITIONS.

ENG 575 20th Century British Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: six semesters of literature at the undergraduate level or graduate standing.

Taught: Variable, check with department

Advanced study of British literature written in the twentieth century. May be repeated once for credit when topics vary. TRADITIONS (POST-1900)

ENG 580 Studies in Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of literature at the undergraduate level.

Taught: Variable, check with department

Special topics in literature; genres, interdisciplinary subjects, individual authors. May be repeated for credit when topics vary. TRADITIONS.

ENG 581 Major Authors (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: six semesters of literature at the undergraduate level or graduate standing.

Taught: Variable, check with department

Advanced study of one or more major literary authors. May be repeated for credit when topics vary. TRADITIONS.

ENG 582 Special Topics in Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: six semesters of literature at the undergraduate level or graduate standing.

Taught: Variable, check with department

Advanced study of special topics in literary studies. May be repeated once for credit when topics vary.

ENG 584 Literary Publishing and Editing (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Current trends and challenges in publishing explored through research and practical editing of literary journals and other projects.

English Developmental Courses (ENGD)

ENGD 080 Writing Laboratory (1 credit)

Hours: 0 classroom + 1 lab/studio

Co-requisites: ENGD 090.

Taught: Fall and spring

Supplementary writing instruction in small-group setting. Offered on a pass/fail basis. Not applicable toward graduation.

ENGI 080 Writing Laboratory for International Students (1 credit)

Hours: 0 classroom + 1 lab/studio

Co-requisites: ENGI 099.

Taught: Fall and spring

Supplementary writing instruction in small-group setting. Offered on a pass/fail basis. Not applicable toward graduation.

ENGD 090 Writing Workshop (3 credits)

Hours: 3 classroom + 0 lab/studio

Co-requisites: ENGD 080.

Taught: Fall and spring

Practice in a variety of writing forms, selecting topics, working through the writing process, and conferring with instructor and peers. Not

applicable toward graduation. For students needing additional preparation for ENG 101.

ENGI 099 Writing Workshop for International Students (3 credits)

Hours: 3 classroom + 0 lab/studio

Co-requisites: ENGI 080.

Taught: Fall and spring

Practice in a variety of writing forms, selecting topics, working through the writing process. For international students needing additional preparation for ENG 101. Not applicable toward graduation.

ENGD 094 Special Topics: Reading and English Workshop (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Special Topics: English and Reading for development of critical reading strategies including practice and instruction in reading and supplementary writing instruction in small-group setting.

Entrepreneurship Courses (ENTP)

ENTP 150 Overview of Accounting (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Introduction to financial information generated by typical business organizations, with special emphasis on the use and interpretation of this information in managerial and financial decision-making processes by entrepreneurs. Enrollment priority given to ENTP minors. May not be substituted for ACC 200. ENTP 150 will be waived for students who have credit for ACC 200 and ACC 201. Same as ACC 150

ENTP 201 Principles of Entrepreneurship (3 credits)

Hours: 3 classroom + 0 lab/studio

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 294 Essentials of Entrepreneurship (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Course will cover selected topics in regards to entrepreneurship.

ENTP 310 Enterprise Creation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENTP 201 and Junior Standing.

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 320 Social Entrepreneurship (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENTP 201.

Taught: Variable, check with department

Introduce students to the concepts, practices, and challenges of social entrepreneurship in the U.S. and around the world. Topics include the relationship between traditional entrepreneurship and social entrepreneurship; the impact of social entrepreneurs on society; and the skills needed to be a successful social entrepreneur.

ENTP 375 Marketing Strategies for Entrepreneurial Businesses (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENTP 201.

Taught: Fall and spring

A strategic marketing process approach will be illustrated emphasizing the design of entrepreneurial marketing plans; the innovation and new product or service process; implementation of product, price, place and promotion goals; and, methods of evaluation and control.

ENTP 376 New Venture Financing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENTP 150 or ACC 200 and ACC 201, ENTP 201.

Taught: Fall only

Many new ventures and innovation fail due to inadequate funding. Major sources of funding for new ventures are reviewed and evaluated in this course, including: venture capital, informal investors, banks, investment banks, suppliers, buyers and the government. Some of the topics for this course include valuation, "guerilla financing," joint ventures, strategic alliances, private placements, IPOs and management buyouts.

ENTP 378 Emerging Enterprise Law (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENTP 201.

Taught: Spring only

This course involves the study of legal issues surrounding emerging enterprises, including, new venture formation, choice of legal entity, financing, siting and leases, intellectual prop-

erty, debtor-creditor relations, contracts and employment law.

ENTP 379 Technology and Innovation Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENTP 201.

Taught: Variable, check with department

This course is designed to explore the concepts of change, innovation, and corporate venturing. Issues associated with entrepreneurial behavior and the development and implementation of programs to encourage entrepreneurship (creating value through innovation in midsize and large firms are explored).

ENTP 394 Topics: Entrepreneurship (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENTP 310 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)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENTP 201.

Taught: Fall and spring

Students will intern at a nascent or early stage business venture that will provide the student an opportunity to learn to apply entrepreneurial problem solving skills and theoretical knowledge obtained through coursework to actual business situations and problems. The student should plan on spending a minimum of 10 hours per week for 10 weeks at the internship.

ENTP 433 New Venture Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENTP 201 and certification of major in business or declared minor in ENTP.

Taught: 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 497 Writing the Business Plan (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENTP 150 or ACC 200 and ACC 201, ENTP 201, ENTP 375 and ENTP 376; senior standing and certification of major in business or declared minor in ENTP.

Taught: Fall and spring

Students will study the basic components and varied audiences for the business plan. Each student will write a business plan and will be required to present the plan to a panel of business leaders.

ENTP 499 Independent Study (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENTP 201, senior standing and certification of major in business or declared minor in ENTP.

Taught: Variable, check with department

Students pursue a topic or project of interest to them. Meeting times arranged with instructor. Open only to students certified as majoring in business or by consent of instructor.

Environmental Science Courses (ENV)**ENV 110 Introduction to Environmental Science and Issues - NS (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

A non-laboratory introduction to the basic tenets of environmental science and issues including: the biological and physical components of ecosystems; human impacts on the functionality of ecosystems; and the economic, political, and legal aspects of environmental decision making. A requirement for entry into the environmental science program.

General education credit: Natural Science

ENV 110H Honors Introduction to Environmental Science and Issues - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: A minimum score of 24 on ACT.

Taught: Spring only-even yrs

A non-laboratory introduction to the basic tenets of Environmental Science and 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 115 Orientation to Environmental Science Careers (1 credit)

Hours: 0 classroom + 3 lab/studio

Taught: Fall only

An introduction to environmental careers and post-graduate options. Activities will include visits to local businesses, corporations, agen-

cies, and organizations specializing in environmental work.

ENV 220 Protecting Water Resources - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: A minimum score of 22 on the ACT math section or equivalent.

Taught: Fall only

An overview of water resources and threats. Focus is on U.S. waters, the Clean Water Act, storm-water, and reducing storm-water pollution of water resources.

General education credit: Natural Science

ENV 220L Protecting Water Resources Laboratory - SL (1 credit)

Hours: 0 classroom + 3 lab/studio

Co-requisites: ENV 220.

Taught: Fall only

A laboratory course to accompany ENV 220. Applied exercises in water quality assessment, land use, and storm-water management.

General education credit: Natural Science

ENV 291W Advanced Writing in Environmental Science - WC (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or ENG 151, ENV 110, and BIO 151.

Taught: Fall and spring

Introduction to scientific literature, experimental design, research, and proposal development. Advanced techniques in information search and retrieval, scientific writing, and effective presentation.

General education credit: Written Communication II

ENV 294 Topics in Environmental Science (1-5 credits)

Hours: 1-5 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

Intensive study of specialized subject matter in environmental science. May be repeated for credit when topic varies.

ENV 350 Environmental Toxicology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 151 and CHE 121.

Taught: Variable, check with department

A non-laboratory course designed for students in biology, chemistry or environmental science who have completed their first-year biology and chemistry courses. The course will cover principles of toxicology and environmental genetics, the movement of toxic chemicals in the environment, and their degradation, bio-transformation, or accumulation over time.

Case studies will be used to examine differences across species and across habitats from the tundra to the tropics.

ENV 394 Topics: Environmental Science (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Junior or senior standing in environmental science.

Taught: Variable, check with department

In depth study of specialized subject matter in environmental science. May be repeated for credit once when topic varies.

ENV 396 Internship: Environmental Science (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Fall, spring, and summer

Experiential learning at institutions, universities, or businesses specializing in Environmental work. Course may be repeated for new internship project; up to 6 semester hours may be earned in this course. Open only to students majoring in Environmental science or minoring in Environmental studies.

ENV 408 Ecology of the City (4 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: BIO 403 and GEO 418.

Taught: Spring only-even yrs

Using ecological theory to understand the links between the structure and function of cities. Topics covered include socio-ecological frameworks, solutions to modern environmental concerns as they relate to urban areas, the role of interdisciplinary research in urban ecology, human-environment interactions, and creating sustainable cities.

ENV 492 Directed Research: Environmental Science (1-3 credits)

Hours: 0 classroom + 3-9 lab/studio

Prerequisites: ENV 291W and consent of instructor.

Taught: Fall, spring, and summer

Development and completion of a research project chosen in conjunction with instructor and approval of environmental science director. Final project report is required. Up to 6 semester hours may be earned in this course. For students majoring in environmental science.

ENV 494 Seminar: Environmental Science (1 credit)

Hours: 0 classroom + 3 lab/studio

Prerequisites: ENV 110 or BIO 123, and junior standing.

Taught: Spring only

Discussion and analysis of current environmental problems. For junior and senior students majoring in environmental science or minoring in environmental studies.

ENV 578 Environmental Issues for Educators (3 credits)

Hours: 1 classroom + 4 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

Information and application of environmental issues for classroom use. Interrelationship of local issues and global issues. Required field trips.

Finance Courses (FIN)**FIN 205 Personal Financial Management (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing.

Taught: Fall only

Practical and realistic methods to manage the basic concepts of personal finances effectively; covers the basics related to managing your personnel assets, credit, insurance, investments, retirement and estate planning.

FIN 305 Principles of Finance (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ACC 200 and ACC 201, STA 205 or STA 212, and junior standing.

Taught: Fall, spring, and summer

Basic concepts in finance including security markets, interest rates, taxes, risk analysis, time value of money, security valuation, short term financial planning, capital budgeting, and capital structure.

FIN 315 Financial Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in FIN 305 and junior standing.

Taught: Fall, spring, and summer

Financial management concepts relating to dividend policy, capital structure theory, working capital management, common stock and bond issuance, hybrid financing, mergers, and acquisitions.

FIN 345 Investment and Security Analysis (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in FIN 305 and junior standing.

Taught: Fall, spring, and summer

Structure and regulation of security markets, capital market theory, portfolio theory, analysis of securities and opportunities, evaluation of portfolio goals, sources of investment information, and introduction to derivatives.

FIN 355 Principles of Risk Management and Insurance (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in FIN 305 and junior standing.

Taught: Fall, spring, and summer

Fundamental principles of risk and insurance; applications to risk situations and pension and group insurance.

FIN 365 Financial Markets and Institutions (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Prerequisites: C or better in FIN 305 and junior standing.

Taught: Fall only

Advanced coverage of financial markets and institutions and their role in the history of the US financial system. Coverage includes a discussion of financial market history, interest rate theory, financial and currency derivatives, international implications for financial markets and institutions and current topics.

FIN 385 Financial Planning Process and Estate Planning (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in FIN 305 and junior standing.

Taught: Fall only

Theoretical and practical approach to estate planning; estate and gift taxes, wills, trusts, and estate planning techniques and application of these techniques in overall financial planning.

FIN 394 Topics: Finance (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in FIN 315, FIN 345 and junior standing.

Taught: 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 396 Internship: Finance (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Completion of FIN 305 with grade of C or better.

Taught: Fall, spring, and summer

Supervised work experience related to finance and coordinated by employer in conjunction with a member of finance faculty. May be repeated to a total of 6 semester hours. Graded pass/fail.

FIN 405 Derivative Securities (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in FIN 315, FIN 345 and certified major in any business program.

Taught: Variable, check with department

Definition and explanation of various risk transfer devices such as options involved in trading these securities, hedging and speculating with options and futures, supervision, regulation, and tax consequences of futures and options trading.

FIN 415 International Finance (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: FIN 305 with a grade of C or better; certified major in any business program.

Taught: Spring only

Financial decision making process in a multinational environment, effects of devaluation expectations, foreign exchange, investment controls; case study materials related to actual decisions by multinational firms.

FIN 425 Financial modeling and valuation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in FIN 315 and FIN 345.

Taught: Fall only

Financial modeling and valuation focusing on major financial theories and practical applications; building financial models in Excel and applying them to various corporate valuation models. Open only to students certified as majoring in business or by consent of instructor.

FIN 435 Case Studies in Corporate Finance (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: FIN 315 and FIN 345 with a grade of C or better, certified major in finance.

Taught: Fall and spring

Analysis of finance problems through use of case studies; oral and written presentations of case solutions. Recommended to be taken during the last 18 semester hours of business coursework.

FIN 445 Retirement Planning and Employee Benefits (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: FIN 305 with a grade of C or better, certified major in any business program.

Taught: Spring only

Concepts of retirement planning and employee benefits and the application of these concepts to overall financial planning for individual and businesses.

FIN 450 Advanced Investment Analysis (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: FIN 315 and FIN 345 with a grade of B or better and permission of the instructor. May be repeated for credit.

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.

FIN 499 Independent Student in Finance (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: FIN 315 with a grade of C or better, certified major in any business program, and consent of instructor.

Taught: Variable, check with department

Student investigation of a topic or completion of a project. Topics, meeting times, and outcomes arranged with instructor.

French Courses (FRE)**FRE 101 Elementary French I - AH (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Fundamentals; introduction to French and Francophone cultures; development of skills in conversation, pronunciation, grammar, reading, and writing.

General education credit: Culture and Creativity

FRE 102 Elementary French II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: For students who have completed FRE 101 or equivalent.

Taught: Fall and spring

Continuation of FRE 101.

FRE 201 Intermediate French I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: For students who have completed FRE 102 or equivalent.

Taught: Fall and spring

Review and extension of basic language skills learned in FRE 101 and FRE 102; reading and discussion of cultural, linguistic, and literary subjects.

FRE 202 Intermediate French II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: For students who have completed FRE 201 or equivalent.

Taught: Fall and spring

Continuation of grammar review and enhancement of language skills begun in FRE 201; consideration of cultural and literary subjects.

FRE 304 French Composition and Conversation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: FRE 202 or equivalent.

Taught: Variable, check with department

Advanced practice in writing French compositions and in oral conversation skills.

FRE 310 French Culture and Society Today (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: FRE 202 or equivalent or consent of instructor.

Taught: Variable, check with department

Basic aspects of contemporary French culture and society; reading and discussion of articles from leading French magazines, newspapers, and representative texts; comparison of French and American behavior and attitudes.

FRE 311 French Cultural History (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: FRE 202 or equivalent.

Taught: Variable, check with department

Eras, institutions, and issues in the history of France; readings primarily in French.

FRE 320 Survey of French Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: FRE 202 or equivalent.

Taught: Variable, check with department

Overview of major authors and movements from Old French to the 20th century.

FRE 322 French Drama (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: FRE 202 or equivalent.

Taught: Variable, check with department

Study of major authors and texts in the history of French theater, including representative 20th century playwrights; readings in French. May be repeated when topics vary.

FRE 323 French Prose Fiction (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: FRE 202 or equivalent.

Taught: Variable, check with department

Study of representative masters of the French novel and short fiction from the 18th century to the present; readings in French. May be repeated when topics vary.

FRE 330 Studies in French Language Cinema (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: FRE 202 or equivalent.

Taught: Variable, check with department

Survey of films produced in the French language. Emphasizes both the aesthetic aspects of the films as well as their historical, political, social and cultural content. May be repeated as topics vary.

FRE 340 Business French (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: FRE 202 or equivalent.

Taught: Variable, check with department

A study of language for broad commercial purposes; cultural awareness in both social and professional situations; historic and contemporary views of government, labor, media, and industrial organization in Francophone countries; business correspondence; Franco-American relations.

FRE 350 Methods of Teaching in French (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of French at the 300 level or above.

Taught: Spring only-even yrs

Theoretical and practical considerations of teaching French in secondary schools. Required of all students seeking teaching certification in French.

FRE 401 French Phonetics and Pronunciation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of French on the 300 level or above or consent of instructor.

Taught: Variable, check with department

Study of French sound system, how sounds are produced, which ones are used in French, and in what contexts they occur. Satisfies the linguistics requirement for French Education majors.

FRE 402 Advanced French Grammar and Syntax (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of French on the 300 level or above or consent of instructor.

Taught: Variable, check with department

Study of French grammar through analysis of key linguistic structures and applied practice. Analysis of word formation, sentence structure, and semantics. Satisfies the linguistics requirement for French Education majors.

FRE 480 Studies in French Culture (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of French at the 300 level or above or consent of instructor.

Taught: Variable, check with department

Topics in culture and language of French speaking countries. May be repeated for credit as topics vary.

FRE 481 Studies in French Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of French at the 300 level or above or consent of instructor.

Taught: Variable, check with department

Topics in literature, literary history, and literary theory. May be repeated for credit when topics vary.

FRE 499 Independent Study in French (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Readings in language and literature; readings in scientific literature.

FRE 520 Readings: French (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 300-level French course.

Taught: Variable, check with department

Various literary, linguistic, cultural, and pedagogical topics. May be repeated for credit when topics vary.

Geography Courses (GEO)**GEO 100 Global Viewpoints on Geography and the Human Landscape - AH (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Acquaints students with the key tools, themes, and perspectives by which geographers describe and analyze the global landscape, in its present condition as well as its transformation from past circumstances and its continuing transformation into the future.

General education credit: Global Viewpoints

GEO 101 World Regional Geography (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

The world's regions; settlements, resource use, culture groups, and political patterns.

GEO 108 Physical Geography - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Acquaints students with the integration of key physical, chemical, and biological processes that produce the climate, soil, vegetation, and landform patterns on the Earth's surface.

General education credit: Natural Science

GEO 301 Urban Geography (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only-odd years

Cities from inter urban and intra urban perspectives; evolution of cities and urban areas; their internal structure and the dilemmas they face.

GEO 302 Cultural Geography (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-odd yrs

Impact of various cultures on landscape; distribution of culture traits; development of culture areas.

GEO 303 Economic Geography (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only-even years

Spatial distribution of primary, secondary, tertiary, quaternary, and quinary economic activities; theoretical approaches stressed.

GEO 304 Political Geography and Geopolitics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of instructor.

Taught: Fall only-even years

Examines the role of geography in the political process at both the domestic and international scales. Addresses the ways in which nation-states structure and organize territories.

GEO 306 Environmental Resource Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

Spatial issues of resources management; water and air pollution, solid wastes, energy, land use planning, wilderness preservation, and population pressures; interaction of eco-systems.

GEO 308 Dynamics of Weather and Climate (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Scientific bases on which weather and climate function; general circulation systems of the atmosphere; climate regions; natural and anthropogenic climate change.

GEO 309 Historical Geography of the U.S. (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-odd yrs

Spread of settlement, growth of urbanization, and development of economic and culture regions; past and present distribution of religious groups, European ethnic groups, and Afro-Americans. Same as HIS 426.

GEO 310 Geography of Population (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only-odd years

Spatial distribution of world population; regional variations of growth rates, standards of living, urban/rural densities, migration patterns, and environmental impact of populations.

GEO 314 Maps and Map Interpretation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of instructor.

Taught: Fall only

Map reading and interpretation skills; overview of map sources; interpretation of aerial photographs and remote sensing data; Geographic Information Systems.

GEO 330 Geography of Religion (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Distribution of religions with a strong emphasis on the areal spread of various religions; impact of religion on landscape and on the environmental settings of several religions; changing religious patterns in the United States.

GEO 335 Geography Through Film, Art and Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-even yrs

Uses film, art and literature to examine how human communities and cultures have conceptualized their relationship to the natural world and negotiated their places in the global system.

GEO 340 Sustainable Food Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only-even years

Production processes and environmental impacts of agriculture, food manufacturing, food retailing in U.S. Land ownership patterns, subsistence food production, and cash crop production in developing world. Sustainable alternatives in U.S. and developing world.

GEO 389 Research Seminar in Geography (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of instructor.

Taught: Fall only-even years

Reviews key concerns of Geography as discipline. Guides students in research project culminating in high quality research paper and professional quality oral presentation.

GEO 394 Topics: Geography (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Study of specialized topics in geography not covered through regular curriculum. Subfields will vary according to the interest of the instructor and will be listed in the on-line schedule of classes. May be repeated as topics change.

GEO 402 Geography of Europe (3 credits)*Hours: 3 classroom + 0 lab/studio**Taught: Fall only-even years*

Physical, cultural, economic, and political patterns of Europe (excluding the former Soviet Union); continent-wide patterns of various characteristics as well as individual countries are considered.

GEO 403 Geography of Africa (3 credits)*Hours: 3 classroom + 0 lab/studio**Taught: Spring only-even yrs*

Physical, cultural, economic, and political patterns of Africa, primarily south of the Sahara.

GEO 406 Geography of Latin America (3 credits)*Hours: 3 classroom + 0 lab/studio**Taught: Fall only-odd years*

Middle and South America's spatial characteristics, physical setting, social characteristics and economic structure.

GEO 409 Geography of North America (3 credits)*Hours: 3 classroom + 0 lab/studio**Taught: Spring only-odd yrs*

The continent's areal differences in physiography, climate, culture, and economic systems; synthesis of various spatial characteristics to form distinct regions.

GEO 410 Geography of East Asia (3 credits)*Hours: 3 classroom + 0 lab/studio**Taught: Fall only-odd years*

Physical and social geography of major regions; transformation of pre-colonial economic and cultural institutions by world economic integration; evaluation of successes and failures of economic development.

GEO 412 Geography of South Asia and the Middle East (3 credits)*Hours: 3 classroom + 0 lab/studio**Taught: Fall only-odd years*

Geo-political, bio-physical, religious and social aspects of South Asia and the Middle East.

GEO 415 Cartography (3 credits)*Hours: 3 classroom + 0 lab/studio**Taught: Fall only*

Cartographic drawings, map symbolism, and map design; various map projections are studied with regard to possible uses.

GEO 418 Geographic Information Systems (4 credits)*Hours: 3 classroom + 1 lab/studio**Taught: Fall and spring*

Introduction to the theories, principles, construction methods, and applications of geographic information systems; employment of a GIS software package to manipulate geographically referenced data.

GEO 419 Remote Sensing of Environment (3 credits)*Hours: 3 classroom + 0 lab/studio**Taught: Spring only*

Introduction to the principles, characteristics and applications of environmental remote sensing; concepts and foundations of remote sensing, photographic systems and interpretation, thermal and multispectral scanning, radar systems, satellite remote sensing, and digital image processing.

GEO 489 Senior Seminar in Geography (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: Consent of instructor.**Taught: Fall only-odd years*

Capstone for Geography. Deepen students knowledge of core themes, debates, research problems, and professional applications in Geography. Guide students as they develop strategies and prepare materials for job search campaign.

GEO 492 Directed Research: Geography (1-3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 semester hours of geography and consent of instructor.**Taught: Variable, check with department*

Independent work on research project agreed upon by student and instructor.

GEO 496 Internship: Geography (3-6 credits)*Hours: 3-6 classroom + 0 lab/studio**Prerequisites: 3 hours of geography and permission of instructor.**Taught: Variable, check with department*

Placement in public agency or private business for supervised experience in applying geographic concepts and techniques; meetings with faculty and with other internship students. Graded pass/fail.

GEO 499 Directed Readings: Geography (1-3 credits)*Hours: 1-3 classroom + 0 lab/studio**Prerequisites: Sophomore standing or consent of instructor.**Taught: Variable, check with department*

Individually supervised readings on a selected area of geography.

GEO 502 Geography of Kentucky (3 credits)*Hours: 3 classroom + 0 lab/studio**Taught: Fall only-even years*

Cultural, physical, economic, and population characteristics of Kentucky; Kentucky's regional and national importance.

GEO 507 Local Community: Geography Analysis (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: Sophomore standing or consent of instructor.**Taught: Spring only-odd yrs*

A site-based examination of specific regional features, including cultural heritage infrastructure, tourist infrastructure, or a range of other urban and regional planning issues. May include a service learning component.

GEO 518 Geographic Information Analysis (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: GEO 418.**Taught: Variable, check with department*

Theories, principles, and applications of geographic information analysis; employment of a GIS software package and other computer software packages to manipulate Geographic Information analysis methods.

GEO 519 Advanced Remote Sensing (3 credits)*Hours: 3 classroom + 1 lab/studio**Prerequisites: GEO 419.**Taught: Variable, check with department*

Introduction to digital remote sensing data processing theories and techniques; employment of a digital remote sensing data processing software package to manipulate digital remote sensing data processing techniques.

GEO 520 Environmental Resources for Teachers (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: 3 semester hours of geography.**Taught: Variable, check with department*

Study of environmental problem areas such as energy use, population growth, deforestation, toxic wastes, landscape conservation, and sustainable practices; may include a service learning component.

GEO 522 Introduction to Historic Preservation (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: Sophomore standing or consent of instructor.**Taught: Spring only-even yrs*

An examination of the growing field of historic preservation including such topics as philosophy, recognition and assessments, survey techniques, preservation planning, conservation, advocacy, federal compliance, and protection of significant resources.

GEO 540 Cultural Geography of Asia (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of instructor.

Taught: Spring only-even yrs

Selective consideration from among broad range of themes in the cultural geography of Asia, such as environmental sustainability, political processes, urbanization, religion, nationalism, recreation, and domestic habitation. May be repeated once for credit when topics vary.

GEO 552 Spatial Data Bases (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Introduction to fundamental spatial data organizing theories and principles, and spatial data modeling techniques underlying various spatial information systems; employment of a GIS software package to manipulate spatial databases.

GEO 592 Directed Research in Geography (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Individual research in an area of geography under supervision of a faculty member. May be repeated once for credit.

GEO 594 Special Topics Geography (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Variable, check with department

Study of selected topics. Subfields will be chosen in keeping with interest of the instructor and will be listed in Schedule of Classes. May be repeated for credit when topics vary.

German (GER)**GER 101 Elementary German I - AH (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Fundamentals; introduction to German-speaking countries and cultures; development of skills in conversation, pronunciation, grammar, reading, and writing.

General education credit: Culture and Creativity

GER 102 Elementary German II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: For students who have completed GER 101 or equivalent.

Taught: Fall and spring

Continuation of GER 101.

GER 201 Intermediate German I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: For students who have completed GER 102 or equivalent.

Taught: Fall and spring

Review and extension of basic language skills learned in GER 101 and GER 102; reading and discussion of cultural, linguistic, and literary subjects.

GER 202 Intermediate German II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: For students who have completed GER 201 or equivalent.

Taught: Fall and spring

Continuation of grammar review and enhancement of language skills begun in GER 201; consideration of cultural and literary subjects as well.

GER 304 German Composition and Conversation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: GER 202 or appropriate placement score.

Taught: Variable, check with department

Advanced practice in writing German compositions and in oral conversation skills.

GER 310 Contemporary German Life (2-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: GER 202 or appropriate placement score.

Taught: Variable, check with department

Key issues in Germany since World War II as reflected in works of contemporary German authors. May be repeated once for credit as topics vary.

GER 311 German Cultural History (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: GER 202 or appropriate placement score.

Taught: Variable, check with department

Eras, institutions, and issues in the history of Germany; readings primarily in German.

GER 320 Survey of German Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: GER 202 or appropriate placement score.

Taught: Variable, check with department

Overview of major authors and movements from the Middle Ages to the 20th century.

GER 322 German Drama (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: GER 202 or appropriate placement score.

Taught: Variable, check with department

Study of major authors and texts in the history of German theater, including representative

twentieth century playwrights; readings in German. May be repeated when topics vary.

GER 323 German Prose Fiction (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: GER 202 or appropriate placement score.

Taught: Variable, check with department

Focus on novel, novella, or short story. May be repeated for credit as topics vary.

GER 330 Studies in German Language Cinema (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: GER 202 or equivalent.

Taught: Variable, check with department

Survey of films produced in the German language. Emphasizes both the aesthetic aspects of the films as well as their historical, political, social and cultural content. May be repeated as topics vary.

GER 340 Business German (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: GER 201 or equivalent.

Taught: Variable, check with department

Introduction to German business terminology and practice in writing and translation of business letters. For students majoring in business and others seeking to broaden their career opportunities.

GER 350 Methods of Teaching German (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: GER 202 or appropriate placement score.

Taught: Spring only-odd yrs

Theoretical and practical considerations of teaching German in secondary schools. Required of all students seeking teaching certification in German.

GER 401 German Phonetics and Pronunciation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of German on the 300 level or above or consent of instructor.

Taught: Variable, check with department

Study of German sound system, how sounds are produced, which ones are used in German, and in what contexts they occur. Satisfies the linguistics requirement for German Education majors.

GER 402 Advanced German Grammar and Syntax (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of German on the 300 level or above or consent of instructor.

Taught: Variable, check with department

Study of German grammar through analysis of key linguistic structures and applied practice. Analysis of word formation, sentence structure,

and semantics. Satisfies the linguistics requirement for German Education majors.

GER 480 Studies in German Culture (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: GER 202 or appropriate placement score.

Taught: Variable, check with department

Topics in culture and language of German-speaking countries. May be repeated for credit as topics vary.

GER 481 Studies in German Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: GER 202 or appropriate placement score.

Taught: Variable, check with department

Topics in literature, literary history, and literary theory. May be repeated for credit when topics vary.

GER 499 Independent Study in German (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Readings in language and literature; readings of scientific literature.

GER 520 Readings: German (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Various literary, linguistic, cultural, and pedagogical topics. May be repeated for credit when topics vary.

Geology Courses (GLY)

GLY 110 The Face of the Earth with Laboratory - SL (4 credits)

Hours: 3 classroom + 2 lab/studio

Taught: Fall, spring, and summer

Occurrence, formation, accumulation, and availability of minerals and rocks as earth resources; geologic agents and processes that modify the Earth's surface; study of local rock types to explain their origin. Field trips.

General education credit: Natural Science

GLY 120 This Dangerous Earth - SL (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

A study of the ways in which geology affects our society including geologic hazards such as volcanoes, earthquakes, landslides, flooding, and coastal erosion as well as the pollution of our soil and water resources. Emphasis is placed on environmental geologic conditions in the tri-state.

General education credit: Natural Science, General education credit: Global Viewpoints

GLY 120H This Dangerous Earth - SL (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-odd yrs

A seminar investigation of the ways in which geology affects our society including geologic hazards such as volcanoes, earthquakes, landslides, flooding, and coastal erosion. Emphasis is placed on environmental geologic conditions of the tri-state.

GLY 120L This Dangerous Earth Laboratory (1 credit)

Hours: 1 classroom + 1 lab/studio

Co-requisites: A 100-level or 200-level geology course.

Taught: Fall only

A laboratory experience to study the geology of the Cincinnati/Northern Kentucky region, the geologic history of the region, and the ways the past geologic processes have acted to create the present landscape.

GLY 150 Introduction to Field Paleontology (3 credits)

Hours: 0 classroom + 6 lab/studio

Taught: Summer only

Introduction in methods of field paleontology.

This will include safety procedures, collection and documentation of samples, and methods of scientific protocol for sample preservation.

GLY 220 History of the Earth (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

An introduction to the origin of the Earth, including plate tectonics, mountain building, the evolution of life as interpreted from the fossil record, mass extinctions, and catastrophic geologic events. Emphasis is placed on the geologic history and fossil record of the tri-state region.

GLY 225 Prehistoric Life - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

The study of prehistoric life as documented in the fossil record. The course will cover the evolution of life over geologic time from simple forms in Precambrian through trilobites, dinosaurs, woolly mammoths, and man. Emphasis is placed on the fossil record and prehistoric life of the tri-state region.

General education credit: Natural Science

GLY 230 Geology of National Parks - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

A study of the principles of physical geology using national parks as examples to illustrate the concepts presented. This will include the formation and occurrence of rocks and minerals, the internal processes that have acted to

form underlying rock structures, and the surficial processes that have acted to form current landforms.

General education credit: Natural Science

GLY 292 Research Experience in Geology (0 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: Consent of instructor and department chair.

Taught: Fall, spring, and summer

Original research work directed by one or more members of the geology faculty. May be taken more than once. Pass/fail grade only.

GLY 294 Topics: Geology (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: consent of department chair.

Taught: Fall, spring, and summer

Special topics in geology. Repeatable for a maximum of 12 semester hours.

GLY 315 Structural Geology with Laboratory (4 credits)

Hours: 3 classroom + 2 lab/studio

Prerequisites: GLY 110 and MAHD 099 or placement.

Taught: Variable, check with department

Primary and secondary structures of the Earth's crust.

GLY 316L Geologic Field Trip (1 credit)

Hours: 0 classroom + 3 lab/studio

Prerequisites: Junior standing and consent of instructor.

Taught: Variable, check with department

Participation in an extended-duration field trip to study geologic features and processes that do not occur within the tri-state region. Repeatable to a maximum of 3 credit hours.

GLY 325 Geology of the Planets (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: GLY 110 or AST 110.

Taught: Variable, check with department

Geologic features and history of the inner planets, satellites of the gas giants, asteroids, and other small solid bodies. Same as AST 325.

GLY 330 Geomorphology with Laboratory (4 credits)

Hours: 3 classroom + 2 lab/studio

Prerequisites: GLY 110.

Taught: Variable, check with department

Description and interpretation of land forms.

GLY 335 Earth Materials (4 credits)

Hours: 2 classroom + 4 lab/studio

Prerequisites: GLY 110.

Taught: Variable, check with department

Study of the physical and chemical properties of common rock and ore-forming minerals and the igneous, metamorphic, and sedimentary rock types that they form. The origin and development of rock systems.

GLY 340 Introduction to Environmental Geoscience (3 credits)

Hours: 2 classroom + 1 lab/studio

Prerequisites: GLY 110 or GLY 120.

Taught: Fall only

Human interaction with the Earth's geologic aspects; natural hazards, water resources, waste disposal, energy, mineral resources, and land use and planning.

GLY 341 Soil Science (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: GLY 110.

Taught: Variable, check with department

A study of the way in which soils and geologic conditions influence environmental conditions and projects. Soil formation and soil properties to include composition and water relationships as well as erosion theory and control and re-vegetation will be covered.

GLY 350 Field Paleontology (3 credits)

Hours: 0 classroom + 6 lab/studio

Prerequisites: Junior standing.

Taught: Summer only

Instruction in methods of field paleontology. This will include safety procedures, collection and documentation of samples and methods of scientific protocol for sample preparation. Students will identify and describe the results of paleontological collection and present the results for critical review.

GLY 360 Introduction to Geophysics (4 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: GLY 110.

Taught: Variable, check with department

The course will present the background and theories used to investigate the Earth and its geophysical properties as they relate to seismology and tectonics. Students will become familiar with the common geophysical methods in terms of the basic theory, data collection, and interpretation of observations.

GLY 392 Directed Research: Geology (1-4 credits)

Hours: 1-4 classroom + 0 lab/studio

Prerequisites: junior standing.

Taught: Fall, spring, and summer

Supervised research in an area of geology currently under investigation by one or more of the geology faculty. Repeatable for a maximum of 9 semester hours.

GLY 394 Seminar: Geology (1 credit)

Hours: 1 classroom + 0 lab/studio

Prerequisites: Junior standing.

Taught: Fall and spring

Introduction to the concept of professional development and discussion of the abilities necessary for successful careers in geology. Written and oral reports required. Repeatable to a maximum of 3 semester hours.

GLY 396 Assistant: Undergraduate Laboratory (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Geology GPA of at least 3.00, junior standing and consent of instructor.

Taught: Fall, spring, and summer

Participation in planning, setting up, teaching, conducting reviews, and testing in an undergraduate laboratory course. For students majoring in geology. Up to 6 semester hours may be earned in this course.

GLY 397 Special Projects: Geology (1-4 credits)

Hours: 1-4 classroom + 0 lab/studio

Prerequisites: Junior standing.

Taught: Fall, spring, and summer

Completion of an independent project in geology. Repeatable for a maximum of 6 semester hours.

GLY 399 Readings: Geology (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: 20 semester hours in geology.

Taught: Fall, spring, and summer

For students able to do independent work. Repeatable to a maximum of 6 semester hours.

GLY 402 Invertebrate Paleontology with Laboratory (4 credits)

Hours: 3 classroom + 2 lab/studio

Prerequisites: GLY 110.

Taught: Summer only

Major phyla in the fossil record; paleo-biological, systematic, and evolutionary aspects; collection and classification of local fossils. Same as BIO 405.

GLY 416 Geologic Field Methods (3 credits)

Hours: 1 classroom + 6 lab/studio

Prerequisites: Junior standing.

Taught: Summer only

Introduction to the principles of geologic field methods applied to the mapping of geologic structures and the interpretation of geologic history. Course integrates the concepts of geologic investigation through field exercises in the Rocky Mountains.

GLY 420 Stratigraphy and Sedimentation with Laboratory (4 credits)

Hours: 2 classroom + 4 lab/studio

Prerequisites: GLY 335.

Taught: Variable, check with department

Physical and biological basis of stratigraphy; processes of formation and environments of deposition of sedimentary rocks.

GLY 425 Economic Geology (4 credits)

Hours: 3 classroom + 2 lab/studio

Prerequisites: GLY 110.

Taught: Variable, check with department

An introduction to the geology of our energy, metallic, and nonmetallic natural resources.

This course will cover the geologic factors that have led to their formation, the procedures applicable for their exploration, and the geologic conditions that control their environmentally responsible development. Laboratory included.

GLY 435 Petrology and Petrography (4 credits)

Hours: 2 classroom + 4 lab/studio

Prerequisites: GLY 335 and GLY 420.

Taught: Variable, check with department

Students will use petrographic analysis to identify minerals. Students will use this analysis to identify rocks and to evaluate rocks for geologic history as well as for economic applications.

GLY 440 Applied Geophysics (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: GLY 110.

Taught: Variable, check with department

Investigate the distribution of geologic materials and their geophysical properties in the shallow subsurface using geophysical field techniques in terms of basic theory, and data collection and interpretation.

GLY 450 Hydrogeology (4 credits)

Hours: 2 classroom + 4 lab/studio

Prerequisites: GLY 110 or GLY 120 and MAT 119.

Taught: Spring only

Overview of groundwater's physical and chemical properties and their corresponding principles as they pertain to geologic environments.

GLY 455 Groundwater Resources and Management with Laboratory (4 credits)

Hours: 2 classroom + 4 lab/studio

Prerequisites: GLY 450.

Taught: Fall only

Geologic and hydrologic factors that control the management of groundwater resources; emphasis placed on groundwater management, groundwater quality and ground-water remediation.

GLY 461 Ecology and Geology of Coral Reefs (4 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: Declared major in natural science.

Taught: Variable, check with department

Ecological and geologic processes in reef ecosystems. Benthic and pelagic biotic communities, reef development and erosion, sedimentation, ancient and modern reefs, responses to environmental change. Required field trip to marine research laboratory.

GLY 492 Directed Research: Geology (2-6 credits)

Hours: 2-6 classroom + 0 lab/studio

Prerequisites: 24 semester hours in geology.

Taught: Fall, spring, and summer

Independent work in field, laboratory and library on research topic chosen prior to registration. Students must present at a local, regional or national meeting. Repeatable to a maximum of 6 hours.

GLY 496 Externship: Geology (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Six hours of geology courses; declared major in Geology or Environmental Science.

Taught: Fall, spring, and summer

Off-campus learning at institutions, universities, or businesses conducting geologic studies. Course may be repeated for new externship projects; up to 4 semester hours total may be earned in this course. For students majoring or minoring in geology or environmental science.

Health Education Courses (HEA)**HEA 125 Introduction to Health Education (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall and summer

Examination of health education as an emerging profession and how health education programs are implemented in the schools, community, and patient education. Emphasis will be on health education concepts, models, theories, philosophies and beliefs.

HEA 135 Safety and First Aid (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

First aid measures for injuries, emergencies, and sudden illness; skill training in all procedures; general safety education; accident causes and remedial action. American Red Cross certification in basic first aid and CPR for students passing the examinations.

HEA 230 Personal Health and Wellness (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Major health issues/problems associated with lifestyle related behaviors and prevention strategies, Nutrition, physical activity and weight management, mental health, sexuality, environmental health, communicable and chronic diseases, consumerism, stress management, and aging.

HEA 250 Health Education for Elementary Teachers (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: EDU 104.

Taught: Fall, spring, and summer

Content and skills for developing, implementing, and evaluating health education in the P-5 classroom.

HEA 270 Community Health (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

Understanding components of community health; community mobilization and building, community needs assessments, Community concerns such as: Alcohol, Tobacco, and Drug, Community health and minorities; Health care systems, physical diseases, psychosocial problems, and environmental and special aspects.

HEA 320 Drug and Alcohol Education (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: junior standing.

Taught: Spring only

Effects of drug use and abuse on the individual and society. Personal, school and community approaches toward establishing intelligent use of drugs.

HEA 350 Sexuality Education (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: junior standing.

Taught: Fall only

Current issues in sexuality education; psychological, biological, and sociological aspects of sexuality; dealing with controversial areas of sexuality; scope and sequence of sexuality education K-12.

HEA 489 Field Experiences in Health Education (1 credit)

Hours: 0 classroom + 1 lab/studio

Co-requisites: HEA 525.

Taught: Fall only

Supervised practice teaching experience in elementary, middle, and high school setting. Integrated with methods course.

HEA 525 Methods and Materials in Health Education (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: (undergraduates) admission to teacher education and 9 semester hours in health education or consent of instructor.

Taught: Fall only

Principles, methods, and techniques for developing, implementing, and evaluating health education in P-12 and other appropriate settings; theoretical foundations, teaching methodology and strategies, curriculum designs, and resource materials.

HEA 599 Topics: Health Education (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Variable, check with department

Individual or group study of a topic of current interest in health education. Topic selected by student with approval of instructor.

Health Informatics Courses (HIN)**HIN 355 Introduction to Health Informatics (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

The Introduction to Health Informatics is an introduction to the concepts and trends in the Health Informatics field both locally and nationally. Several areas will be introduced that will provide baseline knowledge for a Health Informaticist.

HIN 356 Health Information Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HIN 355.

Taught: Fall and spring

Health Information Management is a course focusing on data management, requirements and standards, classification systems, and reimbursement in relation to healthcare processes. Provides health informatics and basic information systems knowledge for working in a health delivery environment or a health related organization and in the application of concepts through the use of clinical software. It is expected that students will be competent in the use Microsoft Excel, PowerPoint and Word.

MHI 599 Independent Study (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

Independent project or intensive study/research with faculty guidance. Open only by consent of advisor/instructor. Meeting times arranged with instructor.

History Courses (HIS)**HIS 100 History of Europe to 1500 (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Survey of Europe including Greco Roman civilization, the Middle Ages, the Renaissance, and the emergence of the modern era.

HIS 101 History of Europe since 1500 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Survey of Europe from 1500 to the present; impact of modern political revolution, the in-

dustrial revolution, and social and cultural alterations that have shaped contemporary society.

HIS 102 History of the United States through 1877 - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

The nation's development from the beginning through the Civil War and Reconstruction.

Designed to meet demands for a general understanding of U.S. history.

General education credit: Culture and Creativity

HIS 103 History of the United States since 1877 - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Exploration of the nation's development since 1877. Designed to meet demands for a general understanding of U.S. history.

General education credit: Culture and Creativity

HIS 106 History of African Americans to 1877 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Major trends of African American history from its 15th century West and Central African heritage to enslavement and ultimate emancipation; conditions and contributions of African American men and women within the American experience.

HIS 107 History of African Americans since 1877 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

Major trends of African American history from the end of Reconstruction; responses of African Americans to Jim Crow; African American participation in the two world wars, the Vietnam War, and the Civil Rights movement.

HIS 108 World History to 1500 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Political, social, economic and cultural development of major world societies to the expansion of the western world.

HIS 109 World History since 1500 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Political, social, economic and cultural development of major world societies in the modern era.

HIS 111 Global Viewpoints in History - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

This course examines a particular continent, cultural region, or nation, focusing on the his-

torical themes, people, and events that fashioned it today, especially those relating to imperialism and colonialism.

General education credit: Global Viewpoints

HIS 194H Honors History Seminar (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: a composite score of 24 on current ACT or equivalent; or HNR GPA of 3.25 or higher.

Taught: Variable, check with department

Research methods and materials of the historian; usefulness of historical analysis to students in many disciplines. An alternative to the 100 level survey courses for students who have demonstrated outstanding potential in history.

HIS 291W Advanced Historical Writing - WC (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

This course requires students to study and practice writing in a variety of expository forms, with attention to audience, purpose, and conventions appropriate to writing situations; emphasis on research-based writing and persuasive strategies.

General education credit: Written Communication II

HIS 300 The Ancient Near East and Greece to the Macedonian Conquest (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Birth of civilization in Egypt and Mesopotamia; ancient near East and Greece to the conquest of Greece by Philip of Macedon.

HIS 301 The Hellenistic World and Rome to the Death of Constantine (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Conquests of Alexander the Great; main features of the Hellenistic world and the Roman Empire.

HIS 303 Europe in the Middle Ages (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Developments from the 4th through the 15th centuries.

HIS 304 Renaissance Europe (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

Developments from Petrarch to the Treaty of Westphalia; significant cultural and religious trends.

HIS 305 Reformation Europe (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

German, English, Swiss, and French reformations; Counter Reformation; religion, politics, and social and intellectual change, 1494-1648.

HIS 308 Modern Europe 1870-1920 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

European society, especially as affected by the growth of nationalism, imperialism, and modern science culminating in the origins and results of World War I.

HIS 309 Modern Europe since 1920 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Economic and political instability in the inter war years; World War II; European renaissance since 1945.

HIS 310 Colonial America to 1763 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Origins and development of the English colonies.

HIS 311 Independence and Constitution 1763-1789 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Causes of the break between America and Great Britain; the war for American independence; the confederation period; writing and adopting the Constitution and the Bill of Rights.

HIS 312 Federalist United States 1789-1828 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-odd yrs

Successful consolidation of the U.S. as a modern nation-state.

HIS 314 Rise of the Industrial United States, 1865-1900 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Effects of increased industrialization and urbanization on the U.S. economy, government, and post Civil War society.

HIS 315 Modern U.S. History, 1900-1939 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Major changes that marked the U.S. during the first 40 years of the 20th century.

HIS 316 Modern United States History since 1939 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Major political and social changes since 1939.

HIS 317 History Behind American Treasures (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore Standing.

Taught: Variable, check with department

Students compare the way historians use material culture with its use by television producers and museum curators.

HIS 318 Exploring Public History (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HIS 102 and HIS 103 or consent of instructor.

Taught: Fall only

Exploration of different non-academic career fields open to history and humanities majors; coursework includes reading current scholarship by different public history practitioners and active, experiential, service, and problem based learning projects.

HIS 321 Modernization in the Non-Western World (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

The "Third World" nations; problems resulting from conflicting dynamics of independence and modernization.

HIS 325 Early Latin American History (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Origin, growth, and development of Latin America from the pre-Colombian period to the independence revolutions of the early 19th century, including analysis of Iberian and non-Iberian tradition.

HIS 326 Modern Latin American History (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

Political, economic, social, and cultural development of Latin America from independence through the 19th and 20th centuries; analysis of Iberian and non-Iberian tradition.

HIS 329 History of the Middle East and North Africa (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Evolution of southwestern Asia and north Africa since the rise of Islam; 19th and 20th century origins of contemporary problems.

HIS 330 Jewish History (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

A survey of the history of the Jewish People from the patriarchs to the present, covering the global development of Jewish intellectual history and cultural identities, including interactions with surrounding cultures and civilizations.

HIS 335 History of Ancient Africa (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Examination of African History from the earliest humans to the transatlantic slave trade. Course stresses the use of interdisciplinary sources to reconstruct African History and counter popular myths about Africa and Africans.

HIS 336 History of Modern Africa (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

Examination of African History from the transatlantic slave trade to the current era. Course stresses the historical roots of current African conditions via an understanding of the transatlantic slave trade, colonialism, and African cultural, economic and political traditions.

HIS 338 History of Japan (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only-odd years

Traditional and modern Japan; cultural, political, religious and philosophical survey.

HIS 339 History of China (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

A survey of the historical, geographical, political, cultural, and economic factors influencing the development of China from earliest times to the present.

HIS 340 History of Imperial China (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: A 100-level history course or consent of instructor.

Taught: Variable, check with department

Intro to Chinese history of the Imperial era from 5000 B.C. to the Ming Dynasty in the mid 17th century, emphasizing the driving forces, formative movements and ideas that have shaped the Middle Kingdom until the early-modern era. It assumes no prior knowledge of Chinese history or language.

HIS 341 History of Revolutionary China (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: A 100-level history course or consent of instructor.

Taught: Variable, check with department

Introduction to Chinese Revolutionary History from the Qing Empire until the present, emphasizing Chinese imperial expansion, semi-colonialism during the 19th century and the revolutionary and nationalist upheavals of the 20th century. It assumes no prior knowledge of Chinese history or language.

HIS 348 History of France, 1804-1918 (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of history.

Taught: Variable, check with department

Survey of major political, social and cultural transformations experienced by France over the 19th and early 20th centuries.

HIS 349 History of France, 1918 to Present (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours history.

Taught: Variable, check with department

Survey of major political, social and cultural transformations that France experienced since the end of World War 1.

HIS 353 British History to 1485 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only-odd years

From the Roman invasion to the end of the Middle Ages.

HIS 354 British History from 1485 to 1763 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-even yrs

From the founding of the Tudor dynasty to the accession of George III.

HIS 355 British History 1760 - Present (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only-even years

From the accession of George III to the present.

HIS 361 History of Germany (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

A survey of the historical, geographical, political, cultural, and economic factors influencing the development of Germany from earliest times to the present.

HIS 365 European Military History: Ancient World to the Renaissance (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Interaction between warfare and European society from the ancient world to the Renaissance.

HIS 366 European Military History: Renaissance to the Modern World (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Interaction between warfare and European society from the Renaissance until the end of World War II.

HIS 377 Modern Russia since 1855 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Modernization under the last Romanov emperors: Bolshevik dictatorship; modern communist state; post-com-munist developments.

HIS 379 History and Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of history.

Taught: Spring only-odd yrs

Study of selected literature and its interrelationship with history. Topics vary by instructor; may be repeated for credit when topics vary.

HIS 380 History and Film (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Film as a reflection and a shaper of history. May be repeated for credit when topics vary.

HIS 381 History and the Arts (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of history.

Taught: Variable, check with department

Study of a selected art form and its interrelationship with an historical era. Topics vary by instructor, may be repeated for credit when topics vary.

HIS 382 History of Kentucky (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

History of Kentucky from 1750 to the present; political, economic, and social issues; how developments in the Commonwealth related to trends in U.S. history.

HIS 383 American Immigration History (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

A thematic introduction to the major issues in the history of American immigration.

HIS 384 History of American Religion (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

A thematic introduction to the major issues in the history of American religion.

HIS 389 Historical Research and Writing (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

An introduction to methods of historical research and writing. Required of all students majoring in history and secondary social studies; should be taken if possible in the sophomore year.

HIS 394 Special Topics in History (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Variable, check with department

Class in topic not included in regular history curriculum. May be repeated for credit when topics vary.

HIS 395 Study Abroad in History (1-15 credits)

Hours: 1-15 classroom + 0 lab/studio

Prerequisites: Consent of department.

Taught: Variable, check with department

An opportunity for students to engage in one or more officially- sponsored and/or departmentally-approved History courses abroad, ranging from one week to an entire semester. May be repeated for credit when topics vary.

HIS 409 The French Revolution (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Political, social and cultural history of the French Revolution from its origins to the advent of the Napoleonic Empire in 1804, emphasizing the impact of the Revolution on the French and European social and political order.

HIS 413 History of Nazi Germany (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-even yrs

Origins, dimensions, and downfall of Hitler's fascist state.

HIS 414 The Holocaust (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

An exploration of the genocidal European Holocaust during World War II. Includes study of the origin, growth and development of European anti-Semitism and pseudoscientific biological racism as practiced in National Socialist (Nazi Germany).

HIS 417 Civil War and Reconstruction, 1860-1877 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only-even years

Causes of the Civil War; the war in the field and on the home front; slavery, emancipation, and the economic, political, and social consequences of reconstruction.

HIS 419 Social and Economic History of US to 1865 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only-odd years

Economy of the young nation and its relationship to social classes and changes, including gender issues.

HIS 420 Social and Economic History of US since 1865 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-even yrs

The Industrial Revolution and its social consequences; immigration and mobility; gender issues; other backgrounds to contemporary society.

HIS 421 Cultural and Intellectual History of the US (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of instructor.

Taught: Variable, check with department

Exploration of the U.S. mind and character from Puritanism to modern times.

HIS 423 Diplomacy and Foreign Policy of the United States (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Principles, historical evolution, and particular nuances of U.S. foreign policy.

HIS 426 Historical Geography of the United States (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-odd yrs

Spread of settlement, growth of urbanization, and development of economic and culture regions; past and present distribution of religious groups, European ethnic groups, and African-Americans. Same as GEO 309.

HIS 431 Historical Themes in African-American History (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HIS 102 and HIS 103 or HIS 106 and HIS 107.

Taught: Fall and spring

Experiences undergone by Africans in the diaspora from Africa and subsequent scattering throughout the U.S.; struggles over race and gender within the context of dominant political, economic, social, and cultural institutions; attempts by Blacks to build an enduring community.

HIS 435 History of Race Relations in the Americas, 1492-1800 (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of history or consent of instructor.

Taught: Variable, check with department

Major influences in the formation of race relations in the Americas (U.S. and Latin America) from the European explorations to the revolutions for independence; role of race in the development of European colonies in the Americas.

HIS 436 History of Race Relations in the Americas, 1800-Present (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of history or consent of instructor.

Taught: Variable, check with department

Major influences in the development of race relations in the Americas (U.S. and Latin America) from the revolutions for independence to the present; role of race in the development of modern nation states in the U.S. and Latin America.

HIS 438 African-American Women's History and Culture (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

This discussion-oriented course is a history of African-American women that begins by examining African women and their cultures prior to European contact and ends with a look at women in the Civil Rights Movement.

HIS 442 History through Biography (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Examination of various historical eras through study of lives of influential and outstanding individuals from diverse areas. Topics vary. May be repeated once for credit.

HIS 444 History of Women in the United States to 1900 (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HIS 102.

Taught: Fall only-even years

Women's role in U.S. economic, social, political, and cultural development until 1900; participation of women in historical eras from earliest societies through industrialization as experienced in diverse ways depending on racial, ethnic, class, and regional differences.

HIS 445 History of Women in the United States since 1900 (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HIS 103.

Taught: Spring only-odd yrs

Women's role in U. S. economic, social, political, and cultural development since 1900;

participation of women in recent history as experienced in diverse ways depending on racial, ethnic, class, and regional differences.

HIS 454 Early American Frontier (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Westward movement and its effects on national character to 1840; colonial wars, War for Independence, land policy, Indian relations, exploration, fur trade, War of 1812.

HIS 465 Nature and Development in Latin America (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of history or consent of instructor.

Taught: Fall only-odd years

Examination of the historical relationship between the natural environment and humans in Latin America from the pre-Columbian period to the present; historical ecology, environmental history, ecological degradation, economic/social development and modernization.

HIS 473 Battles and Behavior I: 1066-1836 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Representative battles from Hastings to the Alamo; reveals the interaction between western civilization and its military conflicts.

HIS 475 The First World War (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only-odd years

The military record and the war's impact upon international socioeconomic, political, and cultural change.

HIS 476 The Second World War (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-even yrs

Origins and prosecution of the war; military and diplomatic aspects from an international perspective.

HIS 485 History of Terrorism (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of history.

Taught: Spring only-odd yrs

A global examination of the historical evolution and significance of terrorism.

HIS 486 History of Modern Ireland (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of history or consent of instructor.

Taught: Fall only

An introduction to the main themes in Irish history over the last 250 years with particular reference to the growth of Irish nationalism, Anglo-Irish relations and the formation of Northern Ireland.

HIS 489 Senior Seminar (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HIS 389.

Taught: Fall and spring

A capstone course for history majors involving the study of historiography, methodology, career options and the preparation of an extended research project.

HIS 494 Topics: History (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Variable, check with department

Class in topic not included in regular history curriculum. May be repeated for credit when topics vary.

HIS 496 Practicum: History (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of history and consent of instructor.

Taught: Variable, check with department

Participation in planning, implementation, and administration of civic engagement, public history, or other departmental projects under supervision of faculty.

HIS 499 Independent Study: History (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: a 100-level history course and consent of instructor.

Taught: Variable, check with department

Individualized study of a special topic under supervision of faculty member. May be repeated for credit when topics vary.

HIS 512 History of Arab Israeli Conflict (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HIS 329 and HIS 330 or consent of instructor.

Taught: Spring only-even yrs

Political, social, diplomatic, and military aspects of the history of Palestinian/Israeli conflict in the context of the Cold War.

HIS 522 Introduction to Historic Preservation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore Standing or consent of instructor.

Taught: Spring only-even yrs

An examination of the growing field of historic preservation including such topics as philosophy, recognition and assessments, survey techniques, preservation planning, conservation, advocacy, federal compliance, and protection of significant resources.

HIS 527 Urban History of the United States (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Origins and growth of cities; impact of cities upon U.S. development; contemporary urban problems.

HIS 528 Architectural History of the U.S. (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

This course enables students to identify the architectural styles and elements of dwellings and buildings in the United States, from native American times to the present day.

HIS 533 Causes of the Civil War (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-odd yrs

Conflicts from 1828 to 1861 regarding slavery, territorial expansion, and other issues that led to the Civil War.

HIS 535 Civil War and Reconstruction (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Causes of the U.S. Civil War; the war itself; slavery, emancipation, reconstruction; economic, military, and social aspects.

HIS 538 Modern United States History, 1900-1939 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only-odd years

Rise of the U.S. to the status of a major world power; the "Progressive Era" and World War I; the 1920s and the 1930s.

HIS 539 Modern United States History since 1939 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-even yrs

Social and political developments from 1939 to contemporary society including the Civil Rights Movement.

HIS 541 History of Kentucky (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

History of Kentucky from 1750 to the present; political, economic, and social issues; how developments in the Commonwealth related to trends in U.S. history.

HIS 545 Topics in Women's World History (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HIS 108 and HIS 109 or consent of instructor.

Taught: Spring only-odd yrs

Exploring women's history in a global perspective, by looking at the status and contribution of women to world societies and discussing

gender identity, class, race, religious and ethnic differences.

HIS 546 History of American Family (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

This discussion-oriented course is a history of the American family from the colonial era to the present. We will examine how and why courtship, marriage, sexuality, divorce, and parent/child relationships have changed over time while paying particular attention to racial, class, and gender differences.

HIS 548 Diplomacy and Foreign Policy of the United States (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Historical evolution of U.S. foreign policy from the Revolutionary War to the present; growth of the U.S. from a minor state to a global power.

HIS 550 History of Appalachia to 1877 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only-even years

History of the Appalachian region from pre-history to 1877; political, economic, and social issues; developments in the region related to trends in U.S. History.

HIS 551 History of Appalachia since 1877 (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of history or consent of instructor.

Taught: Spring only-odd yrs

History of the Appalachian region from 1877 to the present; political, economic, and social issues; developments in the region related to trends in modern U.S. History.

HIS 552 History of the Old South (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

The southern U.S. to 1865; cultural, political, economic, and literary trends; African American experience in the South.

HIS 553 History of the New South (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

The southern U.S. since 1865; cultural, political, economic, and literary trends; roles of blacks from Reconstruction to present, including the rise of Jim Crowism, legal segregation in the 20th century, desegregation, and Civil Rights movements in the 1950s, 60s, and 70s.

HIS 555 Researching the Local History of Underground Railroad (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HIS 102 or HIS 106.

Taught: Fall only

This course explores the various activities of enslaved African Americans as they attempted to abscond from human bondage by crossing the Ohio River, which legally separated slave states from free states. Special attention will be placed on the Abolition Movement as well as the development of various African American communities in parts of Cincinnati and Northern Kentucky.

HIS 557 History of Indians in the United States (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Native cultural and historical experiences from the 15th to 20th century.

HIS 565 The Vietnam War (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only-even years

Roots of Indo-Chinese war in traditional Vietnamese culture as affected by colonialism, nationalism, and Marxism; causes of U. S. military intervention, stalemate, and consequent American political crisis; impact of war on Vietnamese and American societies; debate over lessons of the war.

HIS 570 The Cold War (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 hours of 100-level history courses.

Taught: Fall only-odd years

International perspective on the causes and evolution of the conflict between the United States and the Soviet Union and their allies; effects on world affairs to the fall of the Berlin Wall and demise of the Soviet Union.

HIS 571 Internet Research: American History (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

This is a topical survey of American History from a multicultural perspective using the internet.

HIS 589 Anglo-American Legal History (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Origin and development of the Common Law from Norman beginnings to the present; emphasis on the U.S.

HIS 592 Directed Research in History (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Individual research in an area of history under supervision of faculty member. May be repeated once for credit.

HIS 594 Special Topics in History (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Variable, check with department

Lecture class in topic not included in regular history curriculum. May be repeated for credit when topics vary.

HIS 595 Study Abroad in History (1-15 credits)

Prerequisites: Departmental permission.

Taught: Variable, check with department

An opportunity for students to engage in one or more officially- sponsored and/or departmentally-approved History courses abroad, ranging from one week to an entire semester. May be repeated for credit when topics vary.

HIS 596 Internship: History (3 credits)

Hours: 0 classroom + 3 lab/studio

Prerequisites: HIS 515 or consent and instructor.

Taught: Fall and spring

Supervised work experience in a community history agency or institution or experiential learning in an aspect of public history under the direction of a faculty member. May be repeated once for credit.

HIS 599 Independent Study: History (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Individualized study of a special topic under supervision of faculty member. May be repeated for credit when topics vary.

Honors Courses (HNR)**HNR 101 Honors First-Year Seminar (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: Honors Admit Status.

Taught: Fall only

Introduction to the NKU Honors Program and the honors style of learning. Emphasis on active participation, methods of independent student research and creative projects; collaborative learning.

HNR 301 Humanity and Nature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Honors status.

Taught: Fall and spring

Readings and discussion on significant issues and ideas in the interaction of humanity and nature.

HNR 302 Humanity and Society (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Honors status.

Taught: Fall and spring

Readings and discussion on significant issues and ideas in the interaction of humanity and society.

HNR 303 Humanity and the Imagination (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Honors status.

Taught: Fall and spring

Readings and discussion on significant issues and ideas in the interaction of humanity and the imagination.

HNR 304 Humanity and the Machine (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Honors status.

Taught: Fall and spring

Readings and discussion on significant issues and ideas in the interaction of humanity and technology.

HNR 306 Studies in Diversity (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Honors status.

Taught: Fall and spring

Analysis of society and its multicultural representations in selected areas of study.

HNR 307 Studies in Film (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Honors status.

Taught: Fall and spring

Studies in selected topics in film and its relationship to social issues and other arts.

HNR 308 The World in Transition (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Honors status.

Taught: Fall and spring

Analysis of contemporary trends in cyberspace, business and other social arenas.

HNR 309 World Cities/World Cultures (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Honors status.

Taught: Fall and spring

Exploration and appreciation of selected world-class cities and a variety of cultures; cities and cultures vary from semester to se-

mester; taught in English; may be cross-listed with a foreign-language course.

HNR 394 Honors Special Topics (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Honors status.

Taught: Fall and spring

Readings and discussion on significant issues not covered in other honors seminars.

HNR 395 Honors Study Abroad (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

This course will include a study abroad component. Classroom readings, discussions and other activities will prepare students to actively engage with the topics during the travel portion. Final projects will be due upon completion of the study abroad portion of the course.

HNR 396 Honors Internship (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Honors status.

Taught: Fall and spring

Selected opportunities for students to serve as teaching assistants, research assistants or as assistants in designated business or community groups.

HNR 490 Honors Capstone in Major (0 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: Honors status.

Taught: Fall and spring

Marker course for students doing a capstone project in their major.

HNR 491 Honors Interdisciplinary Capstone (0-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Honors status.

Taught: Fall and spring

Independent research; oral and written expression. Repeatable for up to 6 hours.

Human Resource Management Courses (HRM)**HRM 300 Introduction to Labor Relations (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: junior standing.

Taught: Fall only

Development, structure, and process of American labor relations; evolution and origins of labor unions, internal and external responses to their environment, major legislative and judicial decisions affecting labor management relations, and the collective bargaining process; current and anticipated developments.

HRM 301 Training and Employee Development (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 340.

Taught: Spring only

This course will provide students the opportunity to develop essential knowledge and skills involved in the effective training and development of employees. This course will address the roles of organizational trainers and managers in employee training and development.

HRM 302 Recruiting and Selecting Human Resources (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 340.

Taught: Spring only

Provides students in-depth knowledge of the human resources planning, recruitment, and selection activities performed in organizations. Exposure to the variety of recruiting sources and hiring techniques managers use to staff the organization will be stressed. The focus will be on developing within the student the ability to design recruitment and selection programs that support the organization's short-and long-term strategies.

HRM 303 Employment Law (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 340.

Taught: Fall only

Legal and administrative framework for labor management relations; role of the courts; the NLRB and other administrative agencies, decisions, and procedures.

HRM 304 Compensation and Benefits (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 340.

Taught: Fall only

Economic impact of wages and benefits on the labor management process; estimating the cost of the labor contract, benefits law, and effects of wages and benefits on the economy.

HRM 394 Topics: Human Resource Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 340.

Taught: Variable, check with department

Specialized topics of student and business community interest. Topics for current offering listed in on-line Schedule of Classes. May be repeated up to three times for elective credit when topics differ.

HRM 396 Human Resource Management Internship (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 340.

Taught: Fall and spring

Application of theoretical knowledge in solving business problems through consulting and counseling with business owners; group work in case analysis and problem solving.

HRM 480 Strategic Human Resources (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 340, one HRM class from the following: HRM 301, HRM 302, HRM 303, HRM 304, and senior standing.

Taught: Spring only

This course will provide students the opportunity to learn essential knowledge and skills involved in making the Human Resources function a strategic partner in organization. Emphasis will be placed on aligning HRM activities with organizations' values and mission and using HRM activities to build the organizational capability and competitive advantage. Open only to students certified as Human Resource Management majors.

Health Science Courses (HSC)**HSC 101 Introduction to Health Professions (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

HSC 101 Introduction to Health Professions

Hours: 1 classroom + 4 lab/studio Taught: Variable check with Department A hybrid course providing an overview of current health care systems and roles of various health care practitioners, to include communication, safety, professionalism and trends in the delivery of health care.

HSC 105 Pharmacology (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: BIO 208 and BIO 208L with at a C or better.

Taught: Spring only

Utilization of pharmacological principles or healthcare providers; pharmacological classifications and physiological actions.

HSC 291W Writing in the Health Science - WC (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 and either RAD 286 or RSP 286.

Taught: Variable, check with department

Introduction to methods of professional communication relative to health care delivery. Writing techniques used in health care will be emphasized, including charting, professional writing processes, conducting electronically

based research evaluating sources and using sources correctly.

General education credit: Written Communication II

HSC 410 Healthcare Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Health Science major or consent of instructor.

Taught: Fall and spring

Basic applied management functions in the healthcare setting; personnel and patient scheduling; purchasing procedures; budget and quality improvement process; organization relationships and authority.

HSC 413 Aging in Today's Society (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Role of the older adult in society; promotion of health, support of continued learning, right to peaceful death. Theories of aging and ethical/legal concepts. Includes experiences with the older adult in the community, acute and long term care settings. Elective for BSN students. Open to all students.

HSC 421 Healthcare Research (3 credits)

Hours: 3 classroom + 0 lab/studio

Prereq OR Co-req: STA 205 or STA 212. PRE-REQ: Health Science major or consent of instructor.

Taught: Fall and spring

Overview of the research process for health care professions; historical development of research in health care; role of research in scientific advancement of health care; development of ability to critique clinical health care studies.

HSC 430 Health Professional as Educator (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Overview of teaching and learning for the healthcare professional ethical principles, learning theories, teaching strategies, evaluation, instructional materials and technology; issues related to compliance motivation, literacy, and special populations will be discussed.

HSC 440 Issues in Chronic Disease Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Health Science major or consent of instructor.

Taught: Variable, check with department

In-depth study of various chronic diseases that impact patient care and quality of life evaluation of the economic and financial impact on the patient and the healthcare system assessment and intervention techniques.

HSC 460 Concepts of Quality Patient Care (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Health Science major or consent of instructor.

Taught: Fall and spring

Role development as a health care provider with respect to patient care in the clinical setting; patient management to include scopes of practice, ethical/legal issues, patient assessment and response, managing the critical care and special needs patient, and emergency preparedness.

HSC 480 Global Perspectives of Health Care (3 credits)

Hours: 3 classroom + 0 lab/studio

Prereq OR Co-req: HSC 421 or NRS 320 and HSC 410. PREREQ: Health Science major or consent of instructor.

Taught: Variable, check with department

Discussion and research related to current issues and problems related to health care professions.

HSC 490 Senior Seminar (1 credit)

Hours: 1 classroom + 0 lab/studio

Prerequisites: HSC 421 or NRS 421 and HSC 410.

Taught: Fall and spring

Discussion of current issues and problems related to health care professions.

HSC 494 Topics in Healthcare (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Health Science major or consent of instructor.

Taught: Variable, check with department

Focused study and analysis of a specific topic related to health care. May be repeated when topics vary, for a maximum of 9 semester hours. See Schedule of Classes for specific topic.

HSC 499 Independent Study: Health Care (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Health Science major with a minimum GPA of 2.5 or consent of instructor; approved independent study proposal.

Taught: Variable, check with department

Individually supervised work involving reading, research and/or project related to health care. Topic must be selected before registration in conference with instructor; agreement to include purpose, objectives, instructional activities, time frame, and evaluation method. Not intended as substitution for any course offered on a regular basis. May be repeated for maximum of 6 credit hours.

HSC 580 Applied HealthCare Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HSC 410 or consent of instructor.

Taught: Variable, check with department

Demonstrate and apply skills in healthcare management and operations. Topics to include, but are not limited to: human resources, department finances and billing/coding, data analysis, policy development, regulatory agencies, risk management, customer service, and organizational effectiveness.

Human Services/Mental Health Courses (HSR)**HSR 100 Orientation to Human Service Professions (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

The field of human services; observing human service delivery agencies in operation; activities of workers in meeting client needs; values and attitudes of human service workers; roles and responsibilities of human service workers; concept of the generalist, concepts of human behavior and needs, and strategies and programs for meeting human needs. Formerly HSR 115.

HSR 105 Helping Skills and Techniques for Human Service Professionals (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Skills involved in initiating and conducting an effective counseling relationship; models and theories of helping; establishing the counseling relationship; developing counseling responses; identifying counseling goals; implementing strategies to bring about improvement. Formerly HSR 225.

HSR 110 Activities Therapy (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Nature and use of therapeutic activities in a variety of settings; organization, content, and application of activity programs and materials for various age levels in hospitals and agencies; training in use of games, arts and crafts, music, dance, and recreation.

HSR 204 Field Experience & Seminar I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HSR 100, HSR 105, and HSR 204.

Taught: Fall and spring

HSR 205 Case Management Skills for HSR Workers (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring and summer

HSR 216 Introduction to Group Work (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HSR 105 or consent of instructor.

Taught: Spring only

Small group dynamics and procedures within the mental health/human services field; experimental and cognitive activities introducing types and models of group work, stages of group development, group dynamics, leadership skills/strategies, interventions, and ethical considerations.

HSR 300 Contemporary Issues: Mental Health (3 credits)

Hours: 3 classroom + 0 lab/studio

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

Taught: Fall only

Important current social, ethical, and legal issues and trends in mental health/human services; presentations by speaker sharing particular expertise in various issues.

HSR 303 Multicultural Issues in Human Services (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

This course prepares students to work with diverse groups of people locally and globally defined by gender, ethnicity, race, national origin, sexual orientation, income, age, religion, and other culturally relevant categories. Emphasis will be placed on defining and developing skills for culturally competent human service professionals and the helping process.

HSR 304 Field Experience and Seminar II (4 credits)

Hours: 4 classroom + 0 lab/studio

Prerequisites: HSR 207.

Co-requisites: HSR 412.

Taught: Fall only

Advanced supervised work experience in a mental health/human service agency providing direct services to clients and patients; development of skills to prevent mental illness and promote mental health in group/community settings. Sixteen hours per week in the agency plus a two-hour on campus seminar.

HSR 305 Assessment and Appraisal in Mental Health (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100 and junior standing.

Taught: Spring only

Use and interpretation of assessment and appraisal instruments and procedures in mental health services, e.g., psychological, educational, functional, and environmental.

HSR 306 Introduction to Gerontology (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

The field of gerontology; eclectic introduction to basic concepts of aging; examination of processes of aging; social aspects of aging; major policies and programs affecting older persons.

HSR 312 Crisis Intervention (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

Practice oriented approach to understanding and working with individuals and families experiencing immediate crisis; dynamics of the crisis experience; recognizing the crisis situation; interviewing clients in crisis; developing and implementing coping strategies; utilizing resource and support systems; and referral.

HSR 314 Death, Dying, and Grief (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours in behavioral and/or social sciences.

Taught: Spring only

Major topics from an interdisciplinary perspective; attitudes and practices; experience of dying and grieving; medical, legal, and ethical issues; children and death; suicide, violence, and mass death; funeral practices; caring for the dying and the survivors; speculation about an afterlife.

HSR 326 Behavior Problems of Children (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100.

Taught: Fall only

Children's most common behavioral difficulties and their treatment; major etiological, diagnostic, and treatment factors involved in psychological and physical handicaps; behavioral problems of the preschool elementary school; adolescent years.

HSR 330 Rehab & Disability Serv In Behav Health (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

HSR 340 Alcoholism: Issues and Intervention (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

The field of alcoholism; the acquisition of knowledge, skills, and attitudes required to provide helping services to alcoholics and their families; recognition of the problem; effects, etiology, counseling, treatment, and resources. Designed primarily for alcohol workers in hospitals, industry, rehabilitation, and government and other agencies. Formerly HSR 205. abilitation, and government and other agencies.

HSR 404 Field Experience and Seminar III (4 credits)

Hours: 4 classroom + 0 lab/studio

Prerequisites: HSR 304 or consent of instructor.

Co-requisites: HSR 430.

Taught: Spring only

Advanced supervised work experience in a mental health/human services agency providing direct services to clients and patients; program development, management, and evaluation responsibilities and activities. Placements are arranged in settings meeting the student's particular interests and needs. Sixteen hours per week in the agency plus a two-hour on campus seminar.

HSR 412 Leadership Skills for Small Groups (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HSR 216, junior standing, or consent of instructor.

Co-requisites: HSR 304.

Taught: Fall only

Theory and application of leadership skills in small group situations in organizational and mental health settings. Restricted to students majoring in mental health/human services.

HSR 416 Intervention Theories and Skills for Case Managers (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HSR 105 or PSY 341.

Taught: Fall only

Advanced principles and application of counseling strategies utilized to help individuals improve their mental health functioning. Course assumes student has acquired understanding and skills of basic counseling.

HSR 430 Human Services Administration (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PAD 300 or consent of instructor.

Co-requisites: HSR 404.

Taught: Spring only

Skills and knowledge involved in effective development and administration of small mental health/human services programs or agencies; organizing, setting goals, and estimating needs, recruiting, selecting, orienting, supervising, and evaluating employees; securing and managing financial resources; evaluating program and majoring in mental health/human services.

HSR 431 Fundamentals of Nonprofit Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HSR 430 or Consent of instructor.

Taught: Spring and summer

HSR 450 Alcoholism: The Dysfunctional Family (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HSR 340 or consent of instructor.

Taught: Fall only

Alcoholism and the family system; needs, problems, dynamics; services and resources available; principles and strategies of family therapy; primary prevention. Formerly HSR 350.

HSR 494 Topics: Mental Health (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

A selected topics or issue of importance in mental health. Offered according to demand and interest of students. Maybe repeated for credit when topics vary.

HSR 499 Independent Study (1-4 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Junior standing and consent of instructor.

Taught: Variable, check with department

Directed readings, independent research, or other areas of specific or individual academic interest. Not intended to substitute for any course offered on a regular basis. Written agreement between faculty member and student must be submitted to department chair within first two weeks of semester; elements of agreement to include purpose, objective, instructional activities, time frame, and evaluation procedure.

HSR 500 Multicultural Family Work (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HSR 105 or EDU 570, or equivalent.

Taught: Summer only

Best practices of in service delivery to families of young children at risk; importance of parent worker partnerships and shared decision making in assessment, communication/intervention, and evaluation; participation in collaborative supervised assessment of one family; family centered services plan.

Informatics Courses (INF)**INF 101 Computer Literacy and Informatics (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Understanding the basic concepts of informatics in a context including computer technology; examination of hardware and software; impact computers have on society including employment, privacy, ethics, and security; working with information as a resource. The course includes computer laboratory exercise in Office (Word, Excel, PowerPoint, Access) and Internet technology applications.

INF 101H Honors Computer Literacy and Informatics (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Application of computer hardware, software, and computing techniques to common business problems and activities; microcomputers and business productivity packages including word processors, spreadsheets, databases, and other systems and applications software; extensive hands-on work in a graphical user environment.

INF 110 Business Programming (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Strategies, techniques, and tools for professional programming in a business environment; problem definition, software design, program design, and system implementation; development of systems of programs to implement common business applications.

INF 120 Elementary Programming - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAH 099 or placement. Not open to students who have passed INF 260 or CSC 270 or CSC 360.

Taught: Fall and spring

An elementary introduction to programming for those with no previous programming experience. Emphasis on understanding how to read and write basic procedural programs, and on understanding the concepts of algorithm and execution.

General education credit: Natural Science

INF 128 Principles of Informatics - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Multi-disciplinary exploration of the nature of information; how it is represented, processed, shared, preserved, and protected. Topics drawn from the fields of computing, communication, business, the natural and social sciences, and the humanities. Identifies enduring principles; examines impacts on individuals and society; provides practice with a variety of digital technologies.

General education credit: Individual and Society

INF 186 Media Web Coding (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: INF 101 or INF 110 or INF 120 or CIT 130 or basic computer literacy skills.

Taught: Fall and spring

In this course students will gain the basic skills and knowledge necessary to design and produce media-based websites. Students will study and utilize client-side technologies including extensible hypertext markup language

(XHTML) and cascading style sheets (CSS). Students will also manage and manipulate open source web content, code and components for efficient web design and development. The course content will focus on creating accessible, interactive and media-rich web experience across multiple platforms and devices.

INF 194 Topics: Informatics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: varies with topic (see Schedule of Classes).

Taught: Variable, check with department

Various topics in Informatics.

INF 260 Object-Oriented Programming I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 109 (or higher) and INF 110 or INF 120 or placement.

Taught: Fall and spring

Elementary object-oriented programming concepts and practice: types, decisions, loops, methods, arrays, classes; design and problem-solving. An intensive introduction intended for students with programming experience.

INF 260L Object-Oriented Programming Laboratory (1 credit)

Hours: 0 classroom + 2 lab/studio

Co-requisites: INF 260.

Taught: Fall and spring

Laboratory to accompany INF 260 in which students gain hands-on experience in programming and using programming tools such as debuggers.

INF 282 Introduction to Databases (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MAHD 099 (or higher).

Taught: Fall and spring

Core concepts for the design, creation, and manipulation of relational databases. Analysis of data requirements, conceptual modeling, definition of the relational model, relational database design and normalization, and database implementation; manipulation of relational databases using relational algebra with SQL.

INF 284 Introduction to Networks and Data Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 109 and one of INF 110, INF 120 or CIT 130.

Taught: Fall and spring

Introduction to computer networking; data communications; data transmission, data encoding, data link control; communications network techniques; network protocols; wireless networking; network server configuration;

and planning and deploying a local area network.

INF 286 Introduction to Web Development (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 109 (or higher) and INF 110 or INF 120.

Taught: Fall and spring

An introduction to web design and development for majors in the informatics fields. Web page creation and HTML; site organization and best practices; e-business planning, models and strategies; overview of XML and CSS; introduction to client-side and server-side programming.

INF 294 Topics: Informatics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: varies with topic (see Schedule of Classes).

Taught: Variable, check with department

Various topics in Informatics.

INF 299 Introductory Independent Study (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Consent of Instructor.

Taught: Variable, check with department

Topic to vary based on faculty and student agreement, but will cover material appropriate for an introductory topic in informatics.

INF 394 Intermediate Topics: Informatics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: varies with topic (see Schedule of Classes).

Taught: Variable, check with department

Various topics in Informatics.

INF 396L Applied Informatics Lab (1-3 credits)

Hours: 0 classroom + 1-3 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

Optional laboratory component to informatics classes; learning goals to provide students a way to apply topics and concepts studied in class to projects that they work on in the Center for Applied Informatics. Students taking INF 396L must be concurrently enrolled in an Informatics course that offers this component.

INF 399 Independent Study (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Consent of Instructor.

Taught: Variable, check with department

Topic to vary based on faculty and student agreement, but will cover material appropriate for an introductory topic in informatics.

INF 499 Advanced Independent Study (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Consent of Instructor.

Taught: Variable, check with department

Topic to vary based on faculty and student agreement, but will cover material appropriate for an introductory topic in informatics.

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. May be repeated twice. Graded Pass/Fail.

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.

Integrative Studies Courses (IST)**IST 185 Seminar: Introductory Topics - SB (1-3 credits)**

Hours: 1-3 classroom + 0 lab/studio

Taught: Fall and spring

An orientation to interdisciplinary thinking, this course is designed to encourage students to become self-aware holistic consumers of knowledge and to see the interdependent aspects of all academic disciplines. Students will be guided through an exploration of what the academe has to offer and encouraged to consider how those opportunities match with their personalities, interests, and ambitions.

General education credit: Individual and Society

IST 394 Learning through Military Experience (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Instructor Permission.

Taught: Spring only

Interdisciplinary study of a specific topic or issue. May be repeated for credit when subjects differ.

IST 494 Seminar: Advanced Topics in Integrative Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

This is the capstone course for undergraduate majors in Integrative Studies. It includes a project and portfolio that acts as a culmination of the Integrative Studies program.

IST 496 Internship in Integrative Studies (3-15 credits)

Hours: 3-15 classroom + 0 lab/studio

Prerequisites: Consent of intern director.

Taught: Variable, check with department

IST 496: Internship in Integrative Studies (3-15 credits) Hours: 0 Classroom + 0 Lab/Studio Pre-requisites: junior standing, consent of internship director The integrative studies internships are a cooperative effort between the Integrative Studies program at Northern Kentucky University and public, private, and non-profit agencies. The purpose of the internship is to give students the opportunity to apply their education to actual work situations. The student works under the supervision of the public, private, or non-profit professional.

IST 499 Independent Study: Directed Readings (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

Individualized study of a selected topic under the supervision of a faculty member. May be repeated for credit when topics vary.

IST 585 Introduction to Graduate Interdisciplinary Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission into the Master of Art in Integrative Studies program.

Taught: Fall and spring

This course provides a comprehensive introduction to graduate studies in liberal arts, multi- and inter-disciplinary research and developing integrative insights. It prepares students for defining their research interests, planning their individualized curriculum and initiating active learning strategies. It also provides opportunity to develop one's writing skills, to gain knowledge of professional writing styles, and practice integrative writing.

Italian Courses (ITA)**ITA 101 Elementary Italian I - AH (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Fundamentals; introduction to Italian culture; development of skills in conversation, pronunciation, grammar, reading, and writing.

General education credit: Culture and Creativity

ITA 102 Elementary Italian II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ITA 101 or equivalent.

Taught: Spring only

Continuation of ITA 101, additional grammar study, pronunciation drill, and new vocabulary; further practice in speaking and reading.

ITA 201 Intermediate Italian I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ITA 102 or equivalent.

Taught: Fall only

Review and extension of basic language skills acquired in ITA 101 and 102; reading and discussion of cultural and literary subjects.

ITA 202 Intermediate Italian II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ITA 201 or equivalent.

Taught: Spring only

Continuation of grammar review and enhancement of language skills begun in ITA 201; reading and discussion of cultural and literary subjects.

Journalism Courses (JOU)**JOU 110 Introduction to Mass Communication - SB (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Examine how mass media operate, how people use and create media messages, and how media evolve and influence behavior.

General education credit: Individual and Society

JOU 220 News Writing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in ENG 101 or equivalent.

Taught: Fall and spring

Write news stories that engage various audiences. Practice interviewing and reporting. Develop a sense of news values.

JOU 230 News Reporting and Writing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JOU 220.

Taught: Fall and spring

Research and report original news stories suitable for publication in various media.

JOU 265 Broadcast News Writing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JOU/EMB 110 and JOU 220.

Taught: Variable, check with department

Principles and practices of writing and editing news for the electronic media; development of an effective broadcasting style, conciseness, and accuracy for hard news and features; basic reporting and interviewing techniques, electronic news gathering, rewriting, editing, and compiling.

JOU 296 News Media Workshop (1-3 credits)

Hours: 0 classroom + 4 -12 lab/studio

Prerequisites: JOU 220.

Taught: Fall and spring

Gain on-campus practical experience in producing news content for media outlets on deadline. Develop and refine news story ideas. Create concise focus statements and pitch stories. Interview, write, edit, take news photos and produce video or audio to create story packages. 1-3 credits, with default at 3.

JOU 321 Digital Publishing (3 credits)

Hours: 2 classroom + 3 lab/studio

Prerequisites: JOU 110 or EMB 100.

Taught: Fall and spring

Design and produce publications using professional tools. Examine principles of typography, graphics and design in communication.

JOU 325 Photojournalism (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JOU 110 or EMB 100.

Taught: Spring only

Study fundamentals of photography, use of digital cameras, photo editing, and use of photography in a variety of media to tell stories.

JOU 330 Public Affairs Reporting (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: JOU 230.

Taught: Spring only-even yrs

Investigative reporting on agencies, governments and entities, such as courts, non-profit organizations, health departments and businesses, which maintain public records.

JOU 331 Specialty Reporting (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JOU 220.

Taught: Variable, check with department

Report on beats such as business, education, environment, health, sports, or technology. Topics vary semester to semester.

JOU 340 Feature Writing (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: JOU 220 or permission of instructor.

Taught: Fall only

Develop creative nonfiction stories suitable for publication in magazines, online sites, newspapers, newsletters, and trade journals. Course covers every step of the entrepreneurial process, from developing ideas, to researching, reporting, writing, producing and marketing.

JOU 346 Copy Editing and Design (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: JOU 220.

Taught: Spring only

Edit text and design pages to achieve clear, concise and compelling content. Improve communication by learning the proper use of grammar, spelling, punctuation and style.

JOU 370 Principles of Advertising (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: JOU/ EMB 110.

Taught: Fall only

Processes and practices of advertising, conception, organization, market research, copy writing, ad layout and production, media selection and scheduling, and assessment of impact.

JOU 394 Special Topics in Journalism (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JOU 110 or junior standing.

Taught: Variable, check with department

Examine significant topics in journalism and mass media. Topics vary semester to semester. May be repeated once for credit.

JOU 396 Internship (3 credits)

Hours: 0 classroom + 12 lab/studio

Prerequisites: JOU 296; written consent of supervising faculty member; junior or senior standing; and a GPA of at least 2.75.

Taught: Fall, spring, and summer

Work at newspapers, online sites, public relations or advertising agencies, or other employers of communication professionals, in addition to some class meetings.

JOU 397 Advanced News Media Workshop (1-3 credits)

Hours: 0 classroom + 1-3 lab/studio

Prerequisites: JOU 296.

Taught: Fall and spring

Expand understanding of concepts and skills learned in JOU 296. Gain on-campus practical experience in producing more complex and diverse news content for media outlets on deadline. Explore advanced journalism techniques, such as investigative reporting and series writing. Experiment with narrative devices. 1-3 credits, with default at 3.

JOU 421 Mass Communication History (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JOU 110 or junior standing.

Taught: Spring only-odd yrs

Explore social, political, economic and technological factors that have affected the evolution of U.S. media.

JOU 440 Media Ethics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JOU 110, EMB 100 or junior standing.

Taught: Fall and spring

Evaluate issues facing media practitioners. Develop ethical reasoning through analysis and application of standards and practices in media-related professions.

JOU 450 Media Skills (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JOU 220 or permission of instructor.

Taught: Fall and spring

Introduction to multimedia journalism; use and study of contemporary tools for information gathering, reporting and interacting with audiences.

JOU 485 Mass Communication Law (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JOU 110 or junior standing.

Taught: Fall and spring

Explore First Amendment law and policy related to mass communication. Topics include libel, privacy, intellectual property, confidential sources, the courts, indecency, entertainment and social media, and access to information.

JOU 492 Mass Communication Research Methods (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JOU 220 or CMST 220.

Taught: Fall and spring

Methods of conducting, interpreting, and reporting research relating to mass communications, mass media, public relations, and advertising.

JOU 495 Study Abroad (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Varies by topic.

Taught: Variable, check with department

Varies by topic. Course includes a classroom portion and a trip abroad.

JOU 499 Independent Study: Journalism (1-3 credits)

Hours: 0 classroom + 4 -12 lab/studio

Prerequisites: junior standing; a GPA of at least 2.50 or consent of instructor; approved independent study proposal.

Taught: Variable, check with department

Individually supervised work involving reading, research, and/or production in a specified area of interest. Topic selected before registration in conference with instructor. May be repeated for a maximum of 6 semester hours.

Japanese Courses (JPN)

JPN 101 Elementary Japanese I - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Fundamentals; introduction to Japanese culture; basic skills in pronunciation, conversation, vocabulary, grammar, kana syllabary writing system.

General education credit: Culture and Creativity

JPN 102 Elementary Japanese II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JPN 101 or equivalent.

Taught: Fall and spring

Continuation of JPN 101. Further command of grammar and expansion of vocabulary in conversational Japanese; introduction of additional Chinese characters for reading comprehension and writing.

JPN 201 Intermediate Japanese I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JPN 102 or equivalent.

Taught: Fall only

Review of pronunciation, vocabulary, grammar and syllabary writing system introduced in JPN 101-102; introduction of advanced structural patterns and cultural influences of the language.

JPN 202 Intermediate Japanese II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JPN 201 or equivalent.

Taught: Spring only

Continuation of JPN 201; additional practice in language structural patterns and cultural influences.

JPN 304 Japanese Composition and Conversation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JPN 202 or equivalent.

Taught: Variable, check with department

Advanced practice in writing Japanese compositions and oral conversation skills.

JPN 311 Japanese Cultural History (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JPN 202 or equivalent.

Taught: Variable, check with department

Eras, institutions, and issues in the history of Japan; readings primarily in Japanese.

JPN 325 Japanese Myth and Folklore (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JPN 202 or equivalent.

Taught: Variable, check with department

Study of Japanese folklore, myths and traditions and their relationship to contemporary Japanese society.

JPN 340 Business Japanese (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JPN 202 or equivalent.

Taught: Variable, check with department

Study of language for broad commercial purposes; cultural awareness in both social and professional situations; historic and contemporary views of government, labor, media, and industrial organization in Japan; business correspondence; Japanese-American relations.

JPN 350 Methods of Teaching Japanese (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JPN 202 or equivalent.

Taught: Variable, check with department

Theoretical and practical considerations of teaching Japanese in American schools; required of all students seeking teaching certification in Japanese.

JPN 380 Topics in Advanced Japanese (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JPN 202 or consent of instructor.

Taught: Variable, check with department

Advanced study of Japanese language, literature, and culture. May be repeated for credit.

JPN 401 Japanese Phonetics and Pronunciation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of Japanese at the 300 level or above.

Taught: Variable, check with department

Study of Japanese sound system, how sounds are produced, which ones are used in Japanese, and in what contexts they occur.

JPN 402 Advanced Japanese Grammar and Syntax (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of Japanese at the 300 level or above.

Taught: Variable, check with department

Study of Japanese grammar through analysis of key linguistic structures and applied practice. Analysis of word formation, sentence structure, and semantics.

JPN 399 Independent Study: Japanese (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

Readings in language, literature and culture.

JPN 520 Readings in Japanese (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JPN 380 or equivalent.

Taught: Variable, check with department

Various literary, linguistic, cultural, and pedagogical topics. May be repeated for credit when topic varies.

Criminal Justice Courses (JUS)

JUS 101 Introduction to Criminal Justice - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

This course provides an overview of the criminal justice system; organization and operation of police, courts, and corrections; race, ethnicity, gender, and criminal justice decision-making, current trends and future prospects.

General education credit: Individual and Society

JUS 200 Police in America (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Philosophy and history of law enforcement; crime and police problems; organization and jurisdiction of local, state, and federal law enforcement agencies; professional career opportunities and qualifications.

JUS 201 Corrections in America (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

An interdisciplinary examination of all areas of corrections in the United States informed by law, psychology, sociology, and public policy. Topics explored include history and philosophy of punishment, prisons and jails, institution programming, management of various offender populations, incarceration trends, intermediate sanctions, and parole.

JUS 203 The Criminal Court Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101.

Taught: Fall and spring

Analysis of the American courts; structure, functions, and roles of incumbents in the courts; emphasis on political and economic contexts within which the court works. Includes survey of research on American legal system.

JUS 204 Criminal Investigation (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Kinds, degrees, and admissibility of evidence; collection and handling of evidence; introduction to forensics and criminalistics; application of investigative techniques to specific offenses; types of investigations such as wire tap-

ping, undercover, and sting operations; current trends and future prospects.

JUS 205 Criminal Evidence (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101.

Taught: Fall only

Description and analysis of various evidentiary rules that impact on police investigations and case presentations including admissibility and weight of evidence, hearsay, privileged communications, presumptions and proof, eyewitness identification, opinion and expert testimony, evidence unconstitutionally obtained.

JUS 210 Legal Research (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Methods of research in establishing authoritative legal opinion and the processing of legal activities.

JUS 231 Race, Gender and Crime - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Political formulation of race and gender; race and gender issues related to criminality, victimization, prosecution; adjudication, sanctions, and employment within the legal system; antecedents of contemporary practice; prospects for change.

General education credit: Global Viewpoints

JUS 294 Topics: Justice Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101.

Taught: Variable, check with department

Intensive study of a specific or special issue in law enforcement or criminal justice conducted in a seminar fashion or through independent study. Topics vary as new issues arise.

JUS 301 Ethics in Criminal Justice (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Fall and spring

Examines the concepts of morality and law and their relationships especially the ethical underpinnings of justice and the law. Analyzes the nature of ethics as it bears on social problems and the law, including philosophical analysis and theories of ethics and are encouraged to view society and the law philosophically.

JUS 302 Criminal Law (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Fall only

Major crimes; classification, elements of proof, intent, conspiracy, responsibility, parties, and defenses; common law and adaptations.

JUS 303 Criminal Procedure (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Spring only

Leading constitutional cases on criminal justice; Fourth, Fifth, and Sixth amendments to the Federal Constitution; nature and application of the Bill of Rights to the states; search and seizure, confessions and admissions, and right to counsel and speedy trial.

JUS 310 Police Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Fall only

Organization and administration as applied to operational services, patrol, criminal investigation intelligence and vice units, juvenile units, and traffic administration.

JUS 311 Police in the Community (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Spring only

Collaboration between police and community to identify and solve community crime problems; strategies and procedures to incorporate community opinion into policing and management; methods of increasing community responsibility in law enforcement.

JUS 312 Institutional Corrections (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Fall only

Legal requirements, management issues, and proper procedures in administering correctional operations in the U.S.

JUS 313 Rights of the Convicted (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Fall only

Overview of the American correctional system; law of sentencing; corrections; constitutional rights of prisoners; laws, cases, significant changes in judicial policy toward prison litigation; legislative trends toward curtailment of prisoner's rights and benefits.

JUS 315 Criminal Justice Research Methods (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 291, STA 205 and sophomore standing.

Taught: Fall and spring

Application of basic research methodologies for criminal justice. Topics include research design, sampling, validity, reliability, experimental designs, with a primary emphasis on survey and evaluation research techniques.

JUS 317 Perspectives on Crime (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 291, STA 205 and sophomore standing.

Taught: Fall and spring

A multidisciplinary approach to understanding the theories, issues and traditions underlying criminal justice and criminal behavior, biological, psychological, economic, and sociological theories of crime; crime measurement.

JUS 319 Criminal Justice in Film (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Variable, check with department

The media play important roles in shaping public perceptions of criminals and criminal justice professionals as well as public attitudes towards crime, violence, and "appropriate" methods of social control. This course is intended to enhance awareness and understanding of accurate and inaccurate filmic depictions of criminal justice.

JUS 320 Advanced Crime Scene Technology and Criminalistics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Fall only

Advanced criminal investigation techniques focusing on criminal profiling, DNA, forensic aspects of firearms examination, arson and explosives, illicit drugs and toxicology. Investigating violent deaths, sexual crimes and ritualistic crimes including autopsy/coroner investigations. Bloodstain pattern interpretation, forensic pathology and forensic psychology will also be addressed.

JUS 333 Careers in Criminal Justice (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Variable, check with department

Overview of various career options and career planning in criminal justice.

JUS 351 Financial Investigations (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Spring only

An examination of the history, scope, and method of control of organized and white collar crime. Cultural and social implications are explored.

JUS 400 Juvenile Justice (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Fall only

Structure and format of the juvenile justice system; police, courts, and corrections; analysis and description of the organizational structure of each of the subsystems of the justice process; introduction to juvenile justice research findings.

JUS 401 Correctional Rehabilitation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Fall only

An overview of correctional counseling strategies and techniques; theoretical frameworks; diagnostic and classification schemes; principles of confidentiality; characteristics of program effectiveness.

JUS 402 Alternatives to Incarceration (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Fall only

A multidisciplinary approach to studying alternatives to incarceration. The history of probation, parole, and the emergence of intermediate sanctions are explored. Topics include boot camps, electronic monitoring, drug courts, halfway houses, intensive supervision. Finally, empirical research evaluating the effectiveness of these alternatives will be discussed.

JUS 403 Crime and Public Policy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and Sophomore standing.

Taught: Spring only

Crime as a political issue, political ideology and response to crime, lawbreaking as political protest and political violence; political trials; legislation or morality.

JUS 404 Evidence Preparation and Courtroom Testimony (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Spring only

Criminal justice professional's role in collection, analysis, and preparation of evidence for criminal trials and hearings; establishing witness credibility in hearings, trials, depositions; knowledge of federal and state laws, and court decisions governing expert witness status; presenting evidence and testimony at criminal hearings.

JUS 405 Crime Prevention (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Fall only

This course overviews methods of crime prevention (approaches outside the confines of the CJS). Theory and research related to neighborhood, school, and other situational efforts of crime prevention are explored providing an understanding of the objectives and effectiveness of various crime prevention strategies.

JUS 408 Victims and Crime (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Spring only

Examines crime victims from the theoretical perspective to the delivery of services. Foundation information includes victim data sources, crime victims' rights and victim typologies. Student explore victim service agencies, including volunteer, internship and employment opportunities in the public and non-profit sector.

JUS 428 Crime Across the Life Course (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Spring only

The life course paradigm includes examination of sociology, psychology, and behavioral genetics to investigate the initiation, escalation, duration, and termination of the criminal career. The importance of genetics and biology, abuse in infancy and childhood, the role of parents and peers in adolescence, and the causes of deescalation will be discussed in examining the offending trajectory and turning points of criminals.

JUS 429 Women in Criminal Justice (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Fall only

This course will address women in the criminal justice system. Topics covered include: explanation of patriarchy and feminist theories, history of and women as employees in the criminal justice system, female crime theories, female crime and victimization, the response to their crime and victimization by the criminal justice system including programs intended to prevent violence and treat victims and offenders of crime.

JUS 494 Seminar: Justice Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: JUS 101 and sophomore standing.

Taught: Variable, check with department

Intensive study of a specific topic or issue in criminal justice. Topics vary as new issues arise. May be repeated when topics vary.

JUS 496 Internship: Justice Studies (1-16 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: JUS 101; sophomore standing; 3 additional semester hours of justice studies coursework; and consent of intern coordinator.

Taught: Fall and spring

Supervised field-work in one of four areas: (1) law enforcement, (2) courts and law, (3) corrections, or (4) support services. Offered on a pass/fail basis.

JUS 499 Readings: Justice Studies (1-3 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: JUS 101; sophomore standing; 3 additional semester hours of justice studies coursework.

Taught: Variable, check with department

Specialized reading or primary research interests completed through independent study at the direction of a specific instructor. May be repeated as projects vary. A maximum of six hours can be used towards the major or minor in criminal justice.

Kinesiology Courses (KIN)**KIN 125 Introduction to Physical Education, Fitness, and Sport (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Overview of the profession; philosophy, history, and scientific areas; examination of career opportunities.

KIN 200 Concepts of Lifetime Fitness (2 credits)

Hours: 2 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Health related problems associated with a modern sedentary society; benefits of regular exercise; individual psychomotor and physiological developmental patterns.

KIN 205 Introduction to Personal Training (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: KIN 200, BIO 208.

Taught: Variable, check with department

This course is designed to provide theoretical knowledge and practical skills in preparation for a national certification exam in personal training. Topics include guidelines for instructing safe, effective, and purposeful exercise, essentials of the client-trainer relationship, conducting health and fitness assessments, and designing and implementing appropriate exercise programming.

KIN 260 Introduction to Strength and Conditioning (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

This course is designed to provide theoretical knowledge and practical skills in exercise science, strength training and aerobic conditioning. Topics include guidelines for instructing safe, effective, and purposeful exercise, essentials of the client-trainer relationship, conducting health and fitness assessments, and designing and implementing appropriate exercise programming.

KIN 280 Basic Recognition and Care of Athletic Injuries (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

An introduction to athletic training/sports medicine concepts. Course content will include basic skills for prevention, assessment, and care of injuries associated with physical activity.

KIN 295 Anatomical Kinesiology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: KIN 260.

Taught: Spring only

This course is a directed study of human anatomy with its adaptations to biomechanical principles. In-depth study of the skeletal and articulation system and the muscular and nervous systems along with other key anatomical structures and functions.

KIN 313 Computer Applications for Health and Kinesiology (2 credits)

Hours: 2 classroom + 0 lab/studio

Taught: Fall only

The study and applications of technology and software that are used in the health/ wellness promotion, fitness, physical education, and exercise science professions.

KIN 320 Motor Learning and Performance (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: KIN 125 and BIO 208.

Taught: Fall and spring

This course is designed to examine the principles of motor learning by examining the physiological, psychological, and neuromotor factors that affect the acquisition and performance of motor skills.

KIN 330 Motor Development (3 credits)

Hours: 3 classroom + 1 lab/studio

Prerequisites: Junior standing.

Taught: Fall and spring

Motor development from birth through maturity; factors influencing the development and performance of motor skills; application of assessment and intervention strategies to improve motor performance for preschoolers through the elderly. Includes 5-7 hours of an on-campus intervention clinical experience with preschool children.

KIN 340 Exercise Physiology (3 credits)

Hours: 3 classroom + 1 lab/studio

Prerequisites: BIO 208.

Co-requisites: KIN 340L.

Taught: Fall and spring

Response of the body to muscular activity; structure and function of skeletal muscles; energy sources and oxygen requirements for muscular activity.

KIN 340L Exercise Physiology Lab (1 credit)

Hours: 0 classroom + 2 lab/studio

Prerequisites: BIO 208.

Co-requisites: KIN 340.

Taught: Fall and spring

KIN 340L is designed to provide hands on laboratory experience for KIN 340 lecture. Common laboratory procedures covered in this course are: VO₂max, Wingate anaerobic testing, blood lactate testing, blood hematocrit, body composition, ECG, and EMG.

KIN 342 Introduction to Health Appraisal and Fitness Assessment (2 credits)

Hours: 1 classroom + 2 lab/studio

Prerequisites: KIN 200 and KIN 205.

Taught: Variable, check with department

The purpose of this course is to teach the students the theory and practice for developing skills in assessing health-related physical

fitness and provide guidelines for standard step-by-step assessment procedures.

KIN 345 Physical Activity and Aging (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: KIN 340 or permission of instructor.

Taught: Variable, check with department

The purpose of this course is to examine the physical dimensions of older adults. This will include basic Concepts of the aging adult; energy work and efficiency; motor control, coordination and skill; physical-psychosocial relationships; and, physical performance and achievement.

KIN 349 Exercise Prescription (4 credits)

Hours: 3 classroom + 2 lab/studio

Prerequisites: KIN 340.

Taught: Spring only

Principles and applications for prescribing exercise and physical activities for a variety of populations to improve health-related physical fitness and/or athletic performance.

KIN 350 Psychology of Physical Activity (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: KIN 200, PSY 100.

Taught: Spring only

This course focuses on the evidence-based literature which describes populations that are and are not physically active; research based theories that explain reasons that people are and are not physically active; successful motivational strategies; and the evaluation and applications of interventions designed to change inactive behavior or to sustain physically active behavior.

KIN 360 Statistics and Measurement in Kinesiology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MAT 099 or acceptable placement score.

Taught: Fall and spring

Designed to provide knowledge and practical experience in the study of statistical techniques, motor ability tests, motor fitness tests, physical fitness tests, and skill tests applicable to physical education.

KIN 365 Exercise Prescription and Programming for Special Populations (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: KIN 349.

Taught: Fall only

This course examines basic epidemiology, ecology and pathophysiology of common disease states, and provides recommendations for exercise and concerns for diseased and other special populations requiring alterations to exercise prescription for normal populations.

KIN 370 Biomechanics (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: BIO 208.

Taught: Fall and spring

Mechanics of human motion with respect to performance in sport activities and movement analysis.

KIN 380 Clinical Exercise Physiology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: KIN 340.

Taught: Spring only

This course is designed to prepare the Exercise Science major to work within a human performance clinical setting. This course will cover the basic epidemiology and pathophysiology of common disease states, recommendations for exercise and concerns for rehabilitation and secondary prevention.

KIN 385 Sociological and Psychological Dimensions of Sport and Physical Activity (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: KIN 125.

Taught: Spring only

Introduction of social psychological theory and principles applied to sports; analysis of sport from a sociological perspective through study of values, norms, and behavior of sport in American society.

KIN 450 Organization and Administration of Kinesiology and Athletics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: KIN 125 or permission of instructor.

Taught: Fall only

Theory, policies, and procedures for administering physical education, recreation, and athletic programs in the school and community; program development, budgeting, equipment, facilities, personnel.

KIN 481 Nutrition for Sport and Exercise (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: KIN 340.

Taught: Fall and spring

This course is designed to provide an overview of basic nutritional concepts for sports and exercise. Topics covered in this class include nutrient requirements for sport performance, exercise and weight management. The use and physiological effects of ergogenic aids will also be covered in this course.

KIN 483 Advanced Strength and Conditioning (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: KIN 260, KIN 340, KIN 370, senior standing or permission from instructor.

Taught: Fall and spring

This course is designed to provide advanced knowledge and application in the field of strength and conditioning. The material presented will prepare the student for the National Strength and Conditioning Association's Certified Strength and Conditioning Specialist (CSCS) certification. Topics to be covered include basic science, advanced exercise prescription, advanced strength and conditioning programming, and will require the student to be proficient in various exercise techniques.

KIN 492 Practicum in Exercise Science (3 credits)

Hours: 0 classroom + 6 lab/studio

Prerequisites: KIN 349.

Taught: Fall and spring

Application of theory to practice by assisting in various activities associated with the field of exercise science (i.e., fitness instruction, weight management, strength and conditioning, sports medicine, wellness, nutrition, etc.)

KIN 494 Topics: Kinesiology (1-6 credits)

Prerequisites: Varies with topic (see Schedule of Classes).

Taught: Variable, check with department

Various advanced topics in kinesiology.

KIN 496 Internship in Exercise Science (9 credits)

Hours: 0 classroom + 9 lab/studio

Prerequisites: Senior standing, departmental consent, KIN 492, appropriate GPA.

Taught: Fall and spring

One of two possible culminating activities for students completing the BS in exercise science. Students spend the equivalent of full-time employment in an appropriate agency for one full semester (at least 500 hours).

KIN 497 Exercise Science Senior Synthesis (3 credits)

Hours: 0 classroom + 6 lab/studio

Prerequisites: Department approval, KIN 360 and KIN 498.

Taught: Variable, check with department

This course is designed to prepare Exercise Science majors for employment in a human performance research setting, and/or entering a graduate program in an exercise science domain. Emphasis will be placed on experience in conducting human performance research, and scientifically communicating the results of the research in the form of a manuscript ready for peer review.

KIN 498 Research, Trends, and Issues in Exercise Science (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: KIN 340, KIN 360 and KIN 370 or permission of instructor.

Taught: Fall only

This course will focus on an introduction to the various techniques of research in exercise science. The course will expose the student to the basic concepts of exercise science research via the production of a research paper and other assigned tasks. Emphasis will be placed on the skills necessary to allow the student to become an improved consumer of research in the field of exercise science.

Korean Courses (KOR)

KOR 101 Elementary Korean I - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Fundamentals; introduction to Korean culture; basic skills in pronunciation, conversation, reading, and writing.

General education credit: Culture and Creativity

KOR 102 Elementary Korean II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: KOR 101 or equivalent.

Taught: Variable, check with department

Continuation of KOR 101 additional practice in pronunciation, conversation, reading and writing.

Learning Assistance Program Courses (LAP)

LAP 201 Tutoring in Learning Assistance Center (1 credit)

Hours: 1 classroom + 0 lab/studio

Taught: Fall and spring

Topics in peer tutoring and mentoring, with an emphasis on the university environment. Topics vary. Designed for students interested in peer tutoring and mentoring at NKU, as well as prospective teachers. Recommended for students who work as tutors in Learning Assistance Programs. May be repeated for a maximum of 3 semester hours.

Latin Courses (LAT)

LAT 101 Elementary Latin I (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Fundamentals; introduction to Latin language and Roman culture; study of literary, legal, and scientific terminology rooted in Latin; development of skills in grammar, pronunciation, reading, writing, and simple conversation in classical Latin.

LAT 102 Elementary Latin II (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: LAT 101 or equivalent.
Taught: Spring only
 Continuation of LAT 101.

LAT 201 Intermediate Latin I (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: LAT 102 or equivalent.
Taught: Variable, check with department
 Review of grammar and vocabulary in LAT 101-102; introduction of advanced constructions in context of readings and cultural study.

LAT 202 Intermediate Latin II (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: LAT 201 or equivalent.
Taught: Variable, check with department
 Continuation of LAT 201; practice with advanced grammatical constructions and translation of literary selections.

Organizational Leadership Courses (LDR)

LDR 117 Introduction to Supervision (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
 Functions of supervision; planning, organizing, directing, staffing, controlling, and delegating.

LDR 160 Leadership Around the World - AH (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
 This course will explore the basic theories, trends, and practices for leadership from varying global perspectives. Leadership theories are often taught from a Western perspective. This course discusses these historical Western perspectives, while also introducing students to how leadership is viewed and practiced around the world.
General education credit: Global Viewpoints

LDR 205 Human Relations in Organizations (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
 This course develops interpersonal human relations skills for personal and professional growth. Skills will be built in networking, diversity appreciation, structuring values, conflict resolution, motivation, and personal and group communications.

LDR 300 Foundations of Leadership (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore Standing.
Taught: Fall, spring, and summer
 This course introduces the fundamental concepts and foundational theories of leadership

to facilitate the development of a personal understanding of the nature of leadership. The evolution of leadership theory and research is explored and its implications for understanding leadership as a phenomenon and the practice of leadership. Course encourages the application of learning to analysis of practical leadership problems and examples of leaders from diverse sectors such as business, nonprofit, government, social change, military, science, popular culture, and athletics.

LDR 308 Leadership Development (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore Standing.
Taught: Fall, spring, and summer
 This course focuses on the concepts and skills for developing the leader in a total quality culture. The role of the leader as a mentor will be explored, as well as developing and maintaining empowered followers. Special focus will be put on effective communication systems, decision-making, vision and mission statements, process leadership, time and stress management in organizations, and valuing diversity.

LDR 310 Research Methods in Leadership (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing and STA 205 or STA 212 or STA 213 or transfer equivalency that demonstrates introductory level statistics knowledge.
Taught: Fall, spring, and summer
 This course focuses on the exploration of theoretical and empirical concepts of research design and analysis for the field of leadership. Through the study of qualitative, quantitative, and mixed methodologies, students learn to identify and interpret quality research. Students explore current and emergent research in their area of interest and fully analyze this research. Specific focus is placed on scholarly writing and communication and developing critical analysis and thinking skills enabling students to become good consumers of social science research.

LDR 315 Leading People in Organizations (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
 This course discusses the core to every organization—its people. The interface between humans and organizations is discussed, with specific focus on attracting, developing, and retaining organizational members with competencies for success in global, virtual, and innovative organizations. The leader's role in championing continuous learning and development, forming psychological contracts, rewarding organizational contributions, and

protecting health and safety is examined, in addition to strategies for meeting these objectives. Particular focus will be placed on the ethical and legal responsibilities related to the interface between an organization and its members.

LDR 381 Organizational Ethics and Decision Making (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore Standing.
Taught: Fall, spring, and summer
 This course encourages analysis of the fundamental role of ethics in leadership and decision making. The ethical challenges confronted by leaders and the influence of personal values are examined. The course emphasizes personal ethical development including self-awareness, ethical decision making skills, and understanding diverse perspectives and group decision making.

LDR 382 Organizational Theory and Change (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior standing.
Taught: Fall, spring, and summer
 Contemporary theory on the leadership of organizational change, including best practices for implementing change, and assuring that change will be successful.

LDR 385 Teamwork in Organizations (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore Standing.
Taught: Fall, spring, and summer
 This course focuses on the dynamics of teamwork. Roles and qualities of team leaders and team players will be discussed, along with attributes and behavior of teams. Special focus will be placed on problem solving in a team environment, diverse teams, and virtual teamwork.

LDR 394 Special Topics in Leadership (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Sophomore standing.
Taught: Fall, spring, and summer
 Specialized topics of current interest to students of leadership and the organizational leadership community. Topics for current offerings are listed in the Schedule of Classes. May repeat up to 12 hours if topics differ.

LDR 396 Leadership Practicum (1-6 credits)

Hours: 0 classroom + 0 lab/studio
Prerequisites: Restricted to Organizational Leadership Majors and Department permission required.
Taught: Fall, spring, and summer
 Supervised application-based work experience related to the Leadership major. Educational

component coordinated among organization, student, and faculty. Minimum of 20 hours on the job per week for three credit hours. Variable credit hours from one to six; Can repeat for a total of up to nine credits.

**LDR 399 Independent Study:
Organizational Leadership (1-3 credits)**

Hours: 0 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Individualized study of a special topic under supervision of a faculty member. May be repeated.

LDR 460 Leading in Diverse and Global Contexts (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing.

Taught: Variable, check with department

This course will explore leading in both diverse and global environments. Students will gain appreciation for the importance of understanding both domestic diversity and global experiences and viewpoints. This course looks at the multitudes of issues involved in leading in these dynamic contexts by examining concepts such as race, ethnicity, sexual orientation, class, ability, gender, identity, prejudice and privilege, worldview, and holism. Upon completion of this course, students will understand issues of intercultural leadership and communication and build their capacities and skills for leading in diverse and global contexts.

LDR 480 Organizational Leadership Capstone (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior Standing.

Taught: Fall, spring, and summer

This course is the culminating learning experience for the organizational leadership program. Students investigate and analyze current trends and research in leadership and organizational dynamics to refine their understanding of leadership for today's organizations and to prepare to adapt for the future. Critical and creative thinking skills will be emphasized, in addition to lifelong learning and development for leaders and the role of learning, creativity, innovation, and change in the development and sustainability of organizations.

LDR 495 Study Abroad in Org Leadership (1-15 credits)

Hours: 1-15 classroom + 0 lab/studio

Taught: Variable, check with department

An opportunity for students to engage in one or more officially- sponsored and/or program-approved Organizational Leadership courses abroad, ranging from one week to an entire semester. Program permission is required. May be repeated for credit when topics vary.

Library Informatics Courses (LIN)

LIN 175 Information Literacy (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

A foundational course that introduces students to the cross-disciplinary skills needed to assess information needs, and access and evaluate information sources.

LIN 300 Information in Our Society (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Students will learn about the impact of culture and other social differences on individual use of information and the theories of learning and information use. Our information society will be examined and how information is created, recorded, mass produced, disseminated, and used by individuals and groups.

LIN 301 Introduction to Meta Information System (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: INF 282.

Taught: Variable, check with department

Students will examine and become familiar with content identification systems used to manage large information databases. Classic as well as innovative systems will be studied.

LIN 302 Digital Searching Interfaces (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Students will study all aspects of digital searching interfaces as they relate to information management and user needs. Special emphasis will be placed on library searching techniques.

LIN 303 Critical Reading (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

This course will teach the importance of critical reading in assessing information and its sources. Topics such as the authority, motivation and intent of the author will be examined.

LIN 305 Government Information (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

An in-depth study of publications produced by the United States Government. Students will learn to search and navigate government websites.

LIN 394 Topics (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Special study of one aspect of information use and management. The course topics offered will vary based upon emerging developments in the field or the availability of an authority to offer a specialized educational opportunity to Library Informatics students.

LIN 400 Current Trends in Information Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Students will engage in an investigation of recent developments and trends within information organizations as well as societal issues affecting information systems and services.

LIN 405 Intellectual Property and Information Rights (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior standing or permission from instructor.

Taught: Variable, check with department

Explores intellectual property and information rights issues facing today's libraries and archives. Patents, trademarks, and copyrights are discussed in relation to intellectual property creators and consumers; Fair Use and the First Amendment are tied to Information Access. Copyright matters in Interlibrary Loan, Document Delivery, Electronic Reserves, and Classroom Instruction are examined. Basic legal and ethical issues include freedom of information, internet regulations, privacy, cybercrime, security, etc.

LIN 414 Advanced Information Literacy Skills (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: IMD 114.

Taught: Variable, check with department

This course examines higher level information literacy skills and their application. Students learn how to access and assess information that is presented in a variety of formats.

LIN 420 Management in Library and Information Centers (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior Standing.

Taught: Variable, check with department

The course will cover the development and use of modern management theory and practices in the ever-changing work environment of libraries and other information agencies. In particular, the management functions of planning, organizing, staffing, directing and budgeting will be discussed. The course is taught entirely online.

LIN 496 Senior Capstone (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: LIN major and senior standing.

Taught: Variable, check with department

Students propose and work on projects that allow them to integrate academic experience into real world situations. Students undertake assignments to build organizational competencies such as communication skills, team-work, and critical thinking.

Developmental Mathematics Courses (MAHD)**MAHD 090 Basic Mathematical Skills (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Signed numbers, fractions, decimals, percents, ratio and proportion, measurements, graphs, and introduction to algebra. Does not apply toward any graduation requirements.

MAHD 091 Elementary Geometry (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Lines and angle relationships; parallel lines; constructions; similar and congruent triangles; polygons; right triangles; circles; areas and volumes. Does not apply toward any graduation requirements.

MAHD 094 Essential Algebra Part III (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: Placement by the Developmental Mathematics Program.

Taught: Fall and spring

Equations and inequalities in one variable, graphs of linear and quadratic equations, systems of equations, integer exponents, polynomial operations, proportions, quadratic equations, equations of lines, simple polynomial factoring. Emphasis on applications. Does not apply toward any graduation requirements.

MAHD 095 Essential Algebra - DM (4 credits)

Hours: 4 classroom + 0 lab/studio

Prerequisites: C- or better in MAHD 090 or placement by the Developmental Mathematics Program.

Taught: Fall, spring, and summer

Equations and inequalities in one variable, graphs of linear and quadratic equations, systems of equations, integer and rational exponents, square roots, polynomial operations, factoring, proportions, quadratic equations, and equations of lines. Emphasis on applications. Does not apply toward any graduation requirements.

MAHD 099 Intermediate Algebra - DM (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAHD 095 or in MAHD 094 or placement by the Developmental Mathematics Program.

Taught: Fall, spring, and summer

Factoring polynomials, absolute value equations and inequalities, radical equations, rational expressions and equations, functions, equations of lines, radicals and complex numbers, rational exponents, quadratic equations, and graphs of parabolas. Does not apply toward any graduation requirements.

Mathematics Courses (MAT)**MAT 109 Algebra for College Students (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAHD 099 or placement.

Taught: Fall, spring, and summer

Review of more advanced topics from Algebra II essential for success in MAT 112 and MAT 119. MAT 109 does not count towards general education requirements.

MAT 110 Introductory Probability (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAHD 094 or MAHD 095 or MAHD 099 or placement.

Taught: Fall and spring

Enumeration techniques and probability theory. Not open to students who have completed STA 250.

MAT 112 Applied Calculus (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 109 or placement.

Taught: Fall, spring, and summer

Applications of differential and integral calculus of one variable to business and the life sciences. Not open to students who have passed MAT 129 or MAT 227.

MAT 114 Finite Mathematics - QR (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 109 or placement.

Taught: Fall, spring, and summer

Linear functions, matrix algebra, linear programming, and probability. Emphasis on applications to business.

General education credit: Mathematics

MAT 115 Mathematics for Liberal Arts - QR (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAHD 095 or MAHD 099 or placement.

Taught: Fall, spring, and summer

Appreciation of mathematical ideas applied to problems from the real world; scheduling, voting schemes, apportionment, descriptive statistics, shape and symmetry, fractals, and population growth. For students of the liberal arts.

General education credit: Mathematics

MAT 115H Honors Mathematics for Liberal Arts - QR (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAHD 099 or MAHD 095 or placement.

Taught: Fall only

Appreciation of mathematical ideas applied to problems from the real world; scheduling, voting schemes, apportionment, descriptive statistics, shape and symmetry, fractals, and population growth. For students of the liberal arts.

General education credit: Mathematics

MAT 117 Algebra for Middle Grades Teachers (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 109 or placement.

Taught: Fall only

Concepts of algebra including expressions, equations, and functions, with a focus on the understanding necessary for future middle grades mathematics teachers. Open only to students majoring in elementary or middle grades education or by instructor permit.

MAT 119 Pre-Calculus Mathematics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 109 or placement.

Taught: Fall, spring, and summer

Analytic geometry; algebraic, trigonometric, exponential, and logarithmic functions. Not open to students who have passed MAT 128 or MAT 129.

MAT 128 Calculus A - QR (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: B- or better in MAT 119 or placement.

Taught: Fall and spring

Includes material covered in the first third of the MAT 129-MAT 229 sequence. Limits, differentiation with applications. Credit is not given for both MAT 129 and MAT 128.

General education credit: Mathematics

MAT 129 Calculus I - QR (4 credits)

Hours: 4 classroom + 0 lab/studio

Prerequisites: B- or better in MAT 119 or placement.

Taught: Fall and spring

Limits differentiation and integration with application. Recommended for all students interested in mathematics or science. Credit is not given for both MAT 129 and MAT 128.

General education credit: Mathematics

MAT 140 Mathematics for Elementary and Middle Grades Teachers I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAHD 099 or MAHD 095 or placement.

Taught: Fall, spring, and summer

Basic concepts of numbers and arithmetic operations; number theory. Open only to students majoring in elementary or middle grades education.

MAT 141 Mathematics for Elementary and Middle Grades Teachers II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 140 and C- or better in MAHD 091 or placement.

Taught: Fall, spring, and summer

Elements of geometry. Open only to students majoring in elementary or middle grades education.

MAT 185 Introductory Discrete Mathematics - QR (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 109 or placement.

Taught: Fall and spring

Number systems important in computer applications, logic, set theory, combinatorics and probability, graph theory. Not open to students who have completed MAT 385.

General education credit: Mathematics

MAT 194 Mathematical Sciences Seminar (1 credit)

Hours: 1 classroom + 0 lab/studio

Prerequisites: MAT 128 or MAT 129.

Co-requisites: MAT 128 or MAT 129.

Taught: Fall and spring

Introduction to disciplines in mathematical sciences; readings and discussions pertaining to the mathematical sciences. Topics vary.

MAT 227 Calculus B (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 128.

Taught: Fall and spring

Includes material covered in the middle third of the MAT 129-MAT 229 sequence. Integration with applications, the Fundamental Theorem of Calculus, calculus of exponential, logarithmic, and inverse functions, integration by parts;

calculus of parametric equations and polar curves.

MAT 228 Calculus C (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 227.

Taught: Fall and spring

Includes material covered in the last third of the MAT 129-MAT 229 sequence. Approximate integrals, improper integrals, infinite sequences and series, tests for convergence and divergence, power series, Taylor and Maclaurin series with applications; introduction of vectors and geometry of space; dot product and cross product. Credit is not given for both MAT 228 and MAT 229.

MAT 229 Calculus II (5 credits)

Hours: 5 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 129 or MAT 227.

Taught: Fall and spring

Calculus of exponential, logarithmic, and inverse functions; techniques of integration; arc length; calculus of parametric equations and polar curves; infinite sequences and series; introduction of vectors and Geometry of space; dot product and cross product. Credit is not given for both MAT 228 and MAT 229.

MAT 234 Linear Algebra (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 228 or MAT 229.

Taught: Fall and spring

Vectors, matrix arithmetic, vector spaces, linear transformations, and applications.

MAT 240 Geometry for Middle School Teachers (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: B- or better in MAT 140.

Taught: Fall and spring

Points, lines, and planes; curves and surfaces; congruence; similarity; parallelism; transformation, tessellations; systems of measure; perimeter; area; volume; angle measure. Appropriate computer software will be introduced. Only open to students majoring in elementary or middle school education.

MAT 292 Introductory Mathematical Research (0 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: Consent of Instructor.

Taught: Fall, spring, and summer

Introduction to research in mathematics by participation in a special project or original research directed by a member of the Department of Mathematics and Statistics faculty. Course intended for mathematics majors interested in mathematics research but not ready or able to enroll in more advanced research courses. Pass/fail grade only.

MAT 294 Topics: Mathematics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: varies with topic (see Schedule of Classes).

Taught: Variable, check with department

Topics in mathematics or mathematics education. Topics vary.

MAT 299 Directed Readings/Independent Study (1-3 credits)

Hours: 5 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

MAT 302 Introduction to Higher Mathematics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 228 or MAT 229.

Taught: Fall and spring

Essentials of logic; methods of proof; set theory.

MAT 303 Mathematics and Technology - MG Teachers (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: P in EDU 309.

Co-requisites: C- or better in MAT 240.

Taught: Spring only

Deepen the understanding of middle and secondary level mathematics through the use of technologies including computer software, Internet, hand-held technologies; utilization of technology as a tool for teaching mathematics effectively; instructional applications of word processing, spreadsheets, dynamic and other software, and hand-held technologies; issues on appropriate use of technology. Not open to students who have successfully completed MAT 304. PREREQ OR

MAT 304 Mathematics and Technology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAT 228 or MAT 229 and P in EDU 311.

Taught: Spring only

Deepen the understanding of secondary and college-level mathematics through the use of technologies including computer software, Internet, hand-held technologies; utilization of technology as a tool for teaching mathematics effectively; instructional applications of word processing, spreadsheets, dynamic and other software, and hand-held technologies; issues on appropriate use of technology. Not open to students who have successfully completed MAT 303.

MAT 305 History of Mathematics (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in MAT 129 or MAT 227.**Taught: Fall only-odd years*

Mathematics from ancient times through development of the calculus.

MAT 310 Elementary Theory of Numbers (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in MAT 302.**Taught: Spring only*

Numbers and their representation, divisibility, and factorization; prime numbers; congruencies; primitive roots; quadratic reciprocity; diophantine equations.

MAT 325 Differential Equations (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in MAT 228 or MAT 229.**Taught: Spring only*

Ordinary differential equations, with applications.

MAT 329 Calculus III (4 credits)*Hours: 4 classroom + 0 lab/studio**Prerequisites: C- or better in MAT 228 or MAT 229.**Taught: Fall and spring*

Cylindrical and spherical coordinates; space curves; differentiation and integration of vector functions; differentiation of functions of several variables, multiple integrals; vector fields; line and surface integrals; Green's Theorem.

MAT 330 Classical Applied Analysis (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in MAT 325.**Taught: Fall only*

Fourier series; orthogonal expansions; eigenvalue problems; boundary value problems in ordinary and partial differential equations. Same as PHY 330.

MAT 345 Introduction to Geometry (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in MAT 302.**Taught: Fall only*

Axiomatic Euclidean geometry; introduction to non-Euclidean geometries.

MAT 360 Numerical Analysis (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in MAT 234 and (CSC 270 or INF 260).**Taught: Spring only-odd yrs*

Numerical integration, solution of nonlinear equations by iterative processes; functional approximation and interpolation; initial value problems.

MAT 375 Applied Mathematical Models (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in (MAT 129 or MAT 227) and (STA 205 or STA 212 or STA 250).**Taught: Fall only-even years*

Basic mathematical models arising in biology, psychology, sociology, political science, and decision science; exponential growth, predator-prey, Markov chain, learning theory, linear and nonlinear programming, waiting line, and simulation models.

MAT 385 Discrete Mathematics (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in MAT 228 or MAT 229.**Taught: Fall and spring*

Propositional and predicate logic; proof techniques; recurrence relations; basic set theory; introduction to graphs, Boolean algebra; finite state machines.

MAT 392 Research in Mathematics (0-3 credits)*Hours: 0-3 classroom + 0 lab/studio**Prerequisites: Consent of Instructor.**Taught: Variable, check with department*

Original research in mathematics directed by a member of the Department of Mathematics and Statistics faculty.

MAT 394 Topics: Mathematics (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: varies with topic (see Schedule of Classes).**Taught: Variable, check with department*

Topics vary.

MAT 399 Directed Readings/Independent Study (1-3 credits)*Hours: 1-3 classroom + 0 lab/studio**Prerequisites: consent of instructor.**Taught: Variable, check with department***MAT 410 Abstract Algebra I (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in MAT 234 and MAT 302.**Taught: Fall only-even years*

Basic number theory, including divisibility properties of integers and congruencies; introduction to groups, rings, and fields.

MAT 415 Abstract Algebra II (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in MAT 410.**Taught: Spring only-odd yrs*

Extensive study of one or more of the topics considered in MAT 410.

MAT 420 Real Variables I (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in MAT 302 and MAT 329.**Taught: Fall only-odd years*

Foundations of calculus; topology of Cartesian spaces; convergence; continuous functions.

MAT 421 Real Variables II (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in MAT 420.**Taught: Spring only-even yrs*

Sequences and series of functions; integration.

MAT 430 Complex Variables (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in MAT 302 and MAT 329.**Taught: Variable, check with department*

Analytic functions of a complex variable; Cauchy's theorem and Cauchy's formula; power series; contour integrals; conformal mapping; calculus of residues.

MAT 483 Cryptology (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C- or better in MAT 234 or CSC 362 or CSC 364.**Taught: Variable, check with department*

Cryptology of classical ciphers, mathematical foundations of cryptology, Hill cipher, DES and AES, cryptography of public key cryptosystems.

MAT 490 Mathematics Research Proposal (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: Consent of Department.**Taught: Variable, check with department*

Development of a comprehensive proposal for a research project in mathematics. Includes feasibility study, identification of resources, establishment of appropriate goals, proposal writing, and a public defense. May not be applied toward elective hours in the mathematics or statistics major. Pass/Fail.

MAT 491 Mathematics Honors Research Project (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: Passing Grade in MAT 490.**Taught: Variable, check with department*

Supervised research in mathematics, concluding with a written report and public presentation of results.

MAT 494 Topics: Mathematics (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: varies with topic (see Schedule of Classes).**Taught: Variable, check with department*

Topics in mathematics or mathematics education. Topics vary.

MAT 497 Mathematical Sciences Capstone (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 30 semester hours earned toward the major in mathematics.

Taught: Spring only

Directed projects in the mathematical sciences.

MAT 499 Directed Readings/Independent Study (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

MAT 584 Cryptography (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Cryptology of classical ciphers, DES and AES, public key cryptosystems, authentication and cryptographic hash functions.

MAT 594 Topics: Mathematics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: varies with topic (see Schedule of Classes).

Taught: Variable, check with department

Topics in mathematics and mathematics education. Topics vary.

Medieval Studies Courses (MDS)**MDS 494 Seminar: Medieval Studies (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: MDS 201 and 9 semester hours of courses in medieval studies curriculum.

Taught: Variable, check with department

Selected topics in culture of the middle ages; student research on issues related to topic.

Required for medieval studies minor.

Management (MGT)**MGT 205 Business Management Principles (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: sophomore standing.

Taught: Fall and spring

Introduction to business firms, their organization, functions, and management in context of global, legal, and ethical environments; business as a setting in which people work, make decisions, and contribute productively to society; management of people, information, and processes to achieve organizational goals.

MGT 240 Managerial Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101, CMST 101 and sophomore standing.

Taught: Variable, check with department

Prepares students to write and speak effectively when solving problems managers face. Speaking as a manager through formal and informal addresses, business meetings, news conferences. Writing managerial documents: memoranda; letters; e-mail; short formal special reports; executive summaries and informal notes to superiors, peers and subordinates.

MGT 300 Behavior in Organizations: Understanding Organizational Life (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: junior standing.

Taught: Fall and spring

Overview of the complex organizational, group, and individual processes constituting the internal environment of contemporary business organizations; understanding the dynamics and learning the concepts, theories, processes, and skills suggested by research to underlie effective planning, organizing, interacting, and controlling.

MGT 305 Operations Management in Business (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MAT 114 and STA 205 or STA 212; junior standing.

Taught: Fall and spring

Concepts of operations in production and service organizations; application of quantitative and qualitative techniques to quality, human resources, forecasting, inventory, and process improvement problems.

MGT 306 Project Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 300, MGT 305 and junior standing.

Taught: Variable, check with department

This course is an introduction to the Concepts, tools and techniques of Project Management. The goal is to provide the student with a fundamental knowledge of project planning, budgeting, scheduling, work breakdown structures, risk analysis, project monitoring and project control/termination. Group projects, presentations, class discussions and case exercises will provide the vehicle for developing decision-making, communication, interpersonal and leadership skills that are essential for success in the workplace.

MGT 307 Supply Chain Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 300 and MGT 305 and junior standing.

Taught: Variable, check with department

An upper level undergraduate elective designed to familiarize the student with the scope of supply chain management in organizations. Exposure to key dimensions of effective supply chain management, including those related to logistics, purchasing, information systems, asset management, and strategic supply chain configuration will be provided. Focus will be on the key managerial decisions required to effectively design and operate a supply chain.

MGT 310 Managerial Behavior (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 205 and junior standing.

Taught: Fall and spring

Human aspects of organizations that contribute to individual and collective effectiveness; practical and theoretical areas of motivation, leadership, and micro and macro aspects of organizational design.

MGT 320 Managing a Diverse Workforce (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 300.

Taught: Spring only

This course will provide an overview of the theories and concepts of managing diversity. Students will understand the importance of managing a diverse workforce, gain self-awareness of their individual diversity and develop an awareness and skill set for understanding, analyzing, evaluating, and managing diversity issues in the workplace.

MGT 330 Negotiation and Conflict Resolution (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: junior standing.

Taught: Fall and spring

The skills, knowledge and abilities to negotiate effectively with others are important to managers and employees in all types of organizations; business, governmental, non-profit, healthcare and professional. The purpose of this course is to provide students with the theory, tactics, and practices that will enable them to negotiate successfully and resolve conflicts. Core subjects include negotiation preparation; distributive and integrative bargaining; strategies and tactics; gaining leverage through power and persuasion; and the influences of ethics, gender and culture. In addition to use of mediation and arbitration techniques to resolve conflicts are presented. The course requires students to learn through active participation in negotiation of actual cases.

MGT 340 Human Resource Administration (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior standing.

Taught: Fall and spring

Recruitment and selection of labor force; training of employees; management development; wage and salary plans; personnel policies; development of personnel policies consistent with government regulations.

MGT 355 International Business Environment (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ACC 200, Junior standing, and major or pre-major in the college of business.

Taught: Variable, check with department

This course introduces students to international business, strategy and management. It examines strategy from the perspective of the parent company and its foreign subsidiaries. It focuses upon the internationalization process and international market entry modes, as well as the main value chain activities and support functions.

MGT 360 Comparative International Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 300 and junior standing.

Taught: Fall only

Management of the multinational firm; cross cultural issues; differences in attitudes and behaviors, organizational structure, environmental considerations between domestic and multinational firms; host country subsidiary relations in an international context.

MGT 370 Managing Organizational Change (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 300.

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.

MGT 394 Topics: Management (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 300 and junior standing.

Taught: Variable, check with department

Specialized topics of student and business community interest. Topics for current offering listed in Schedule of Classes. With adviser's approval may be taken up to nine hours for elective credit if topics differ.

MGT 396 Internship: Small Business (3 credits)

Prerequisites: MGT 300 and consent of instructor.

Taught: Fall, winter, spring and summer

Application of theoretical knowledge in solving business problems through consulting and counseling with business owners; groups work in case analysis and problem solving. May be repeated once for credit. Open only to juniors certified as majoring in business.

MGT 406 Leadership Assessment and Development II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 310, MGT 340 and senior standing. Open only to students certified as Management majors.

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.

MGT 415 Continuous Quality Improvement in Operations (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 300, MGT 305 and senior standing. Open only to students certified as majoring in business disciplines.

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.

MGT 490 Business Policy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 300, FIN 305, MGT 305, MKT 205, and senior standing. Open only to students certified as majoring in business disciplines.

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. Recommended to be taken during the last 18 semester hours of business coursework.

MGT 499 Independent Study: Management (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MGT 300 and consent of instructor. Open only to students certified as majoring in business or by consent of instructor.

Taught: Variable, check with department

Students pursue a topic or project of interest to them. Meeting times arranged with instructor.

Media Informatics Courses (MIN)**MIN 221 Visual Fundamentals for Digital Media (3 credits)**

Hours: 3 classroom + 2 lab/studio

Prereq OR Co-req: INF 186 or INF 286 or consent of instructor.

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)

Hours: 3 classroom + 2 lab/studio

Prereq OR Co-req: EMB 140 or INF 186 or consent of instructor.

Taught: Fall and spring

Students will learn skills and techniques necessary to create animations and interactivity for the web. Students will draw and tween symbols; work with images, audio and video; and be introduced to Actionscript 3.0. Projects include designing, developing and publishing click-through banner ads and web interfaces.

MIN 252 Non-Linear Interactive Storytelling (3 credits)

Hours: 3 classroom + 0 lab/studio

Prereq OR Co-req: INF 186 or MIN 240 or consent of instructor.

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 294 Special Introductory Topics in Media Inf (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

Focused study of significant topic from a media informatics perspective at an introductory level. Topics vary semester to semester. May be repeated once for credit.

MIN 340 Media Scripting for Interactivity (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: MIN 240.**Taught: Fall and spring*

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 Actionsript 3.0 to develop interactive experiences for the web and for mobile devices.

MIN 345 Introduction to 3d Modeling (3 credits)*Hours: 3 classroom + 2 lab/studio**Prereq OR Co-req: MIN 221.**Taught: Fall and spring*

This class will focus on basics 3d modeling with a focus on the practical texturing, animation and learning within Maya, the industry-standard animation software. In addition, students will learn efficient animation workflow and standard storyboard techniques used in today's entertainment, advertising, science and gaming industries.

MIN 352 Digital Media Projects (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: INF 186, MIN 221 and MIN 240.**Taught: Fall and spring*

This course examines how nonfiction stories are mediated by technological distribution through digital devices and across multiple media channels. Students take pieces written for the medium of paper and alter them for distribution on the web and through other digital media.

MIN 375 Impact of Computer Games and Virtual Worlds (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: MIN 252.**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 381 Computer-Mediated Communication (3 credits)*Hours: 3 classroom + 0 lab/studio**Taught: Spring only*

This seminar examines communication occurring between two or more individual people who interact and/or influence each other via the internet or network connection using social software. Topics include identity, social information processing, online romance, social

network sites, Internet communities, web blogs, wikis, and workplace considerations.

MIN 394 Topics: Media Informatics (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: Consent of instructor.**Taught: Variable, check with department*

Focused study of a significant topic from a media informatics perspective. Topics vary semester to semester. May be repeated once for credit.

MIN 396 Internship: Media Informatics (1-3 credits)*Hours: 0 classroom + 12 lab/studio**Prerequisites: Written consent of supervising faculty member; junior or senior standing; and a GPA of at least 2.75.**Taught: Fall, spring, and summer*

Selected placement for majors in businesses and non-profit organizations. Internships may involve content design, web and mobile applications, digital advertising, animation, game design, production writing or other areas within field. Repeatable once for full credit if different responsibilities.

MIN 420 Business of Media Informatics (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: Junior standing, MIN 240 and MIN 345 or permission of instructor.**Taught: Variable, check with department*

In this course, students will gain an understanding of business and ethics within the media informatics industry. In a field, where nearly three-fourths of all media designers freelance at some point, the need to understand and develop key business practices is imperative. The focus will include business development and management, project management, legal issues, ethical practice and self-marketing.

MIN 440 Advanced Media Interactivity (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: MIN 340.**Taught: Variable, check with department*

In this course, students will design a two-dimensional web-based video game, online tutorials and desktop application using Actionsript 3.0 and Adobe Flash. The focus on this class will include theory and practice of designing games according to industry and usability/accessibility standards. New trends and techniques in gaming will also be explored, critiqued and applied.

MIN 445 Intermediate 3D Modeling and Animation (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: MIN 345.**Taught: Variable, check with department*

This course will continue the development of 3D modeling skills with a focus on rigging, animating and visual effects.

MIN 452 Advanced Digital Media Projects (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: MIN 352.**Taught: Fall and spring*

This course will further analyze the structures of narrative or non-fiction storytelling in virtual environments. Students will now work in teams to develop long-term, media-intensive story ideas, launch their own website and develop a series of stories that include audio, video, images, flash, Maya and text to tell interactive stories.

MIN 475 Advanced 3D Animation and Gaming (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: MIN 445.**Taught: Variable, check with department*

Advanced modeling, rigging, shading, rendering, and character-design skills are developed in conjunction with traditional story, animation, lighting, and cinematography theoretical concepts. Students complete individual, independent projects and also work as a team to develop, design and produce an animated movie or video game environment and assets.

MIN 495 Study Abroad (1-3 credits)*Hours: 1-3 classroom + 0 lab/studio**Prerequisites: Varies by topic.**Taught: Variable, check with department*

Varies by topic. Course includes a classroom portion and a trip abroad.

MIN 496 Senior Practicum (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: MIN major, senior standing or consent of instructor.**Taught: Variable, check with department*

Students work on team projects that allow them to integrate academic experience into real world situations. Required electronic portfolio is reviewed and evaluated with revisions applied. Students undertake assignments to build organizational competencies such as communication skills, teamwork, and critical thinking.

MIN 499 Independent Study (3 credits)*Hours: 0 classroom + 4-12 lab/studio**Prerequisites: Senior standing or consent of instructor.**Taught: Variable, check with department*

Individually supervised work involving reading, research, writing, and/or production in speci-

fied area of interest in Media Informatics. The student will work with the instructor to develop consent for these promotions that will be displayed in print and online formats.

Marketing Courses (MKT)

MKT 205 Principles of Marketing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing.

Taught: Fall and spring

Flow of goods from producer to consumer; demand-stimulated and demand-fulfilling activities of business enterprises; marketing concepts and systems analysis.

MKT 306 Sales Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205 and junior standing.

Taught: Fall and spring

Students gain exposure to how the sales function is managed and aligned with overall marketing strategy. Topics will include organizing and developing the sales force, customer markets, sales processes, and sales knowledge.

MKT 307 Delivering and Communicating Value (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205.

Taught: Fall and spring

Retail sub-channel of distribution; role of retailing in meeting consumer and producer needs in distribution; distribution cost analysis at retail level; merchandising, promotion, and control.

MKT 308 Integrated Marketing Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205.

Taught: Fall and spring

Students explore how to design, manage, and coordinate effective marketing and promotion programs using different marketing communication tools.

MKT 310 Building and Managing Customer Relations (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205.

Taught: Fall and spring

Students are exposed to strategies, theories, and personal skills involved in processes used to manage and build customer relationships and gain an appreciation for the role of customer value in marketing.

MKT 320 Consumer Behavior (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205.

Taught: Fall and spring

Focuses on examining different types of consumers and their decision making processes, experiences and satisfactions in the marketplace. Emphasis is placed on factors that influence how consumers think, feel, and act.

MKT 330 Services Marketing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205.

Taught: Variable, check with department

Services, such as health care and travel, are a large share of U.S. personal consumption. This course focuses on the effective marketing of services in a hands-on, case and project-based environment.

MKT 333 Global and Cultural Issues in Marketing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205.

Taught: Fall and spring

Focuses on an understanding of the global, societal, and cultural context of marketing, and the impact these factors have on the practice of marketing. Incorporates the development of the marketing mix in light of these contextual factors.

MKT 335 Event Planning and Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205.

Taught: Fall and spring

Focuses on examining different types of consumers and their decision making processes, experiences and satisfactions in the marketplace. Emphasis is placed on factors that influence how consumers think, feel, and act.

MKT 340 Business to Business Marketing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205.

Taught: Variable, check with department

The non-consumer marketing world; strategies, techniques, and analytical approaches.

MKT 350 Creating Value through Product and Price (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205.

Taught: Fall and spring

Focuses on an understanding, application, and integration of marketing theories and practices related to creating new products and services, managing products and services throughout their lifecycle, and developing and managing pricing strategies for products and services.

MKT 360 International Marketing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205.

Taught: Variable, check with department

A vibrant global economy requires firms with the ability to effectively apply marketing processes across countries and cultures. This course emphasizes mechanisms for developing more global-minded marketing managers who appreciate various dimensions of international business.

MKT 370 Social Media (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205.

Taught: Variable, check with department

Focuses on social media tools and analytics used by marketers to communicate with and create value for targeted audiences. Students 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.

MKT 392 Consumer Insights (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205 and BIS 380.

Taught: Fall and spring

Introduction to the role of research in marketing decision making including defining marketing research problems and objectives, research designs and methodologies, primary and secondary data collection, sampling techniques, data analysis, and data reporting.

MKT 394 Topics: Marketing Issues (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205 and junior standing.

Taught: Variable, check with department

Specialized topics of faculty and student interest. Topics vary and may include product planning and development, distribution, pricing strategies, services marketing, and international marketing. May be taken three for elective credit if topics differ.

MKT 396 Internship: Marketing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205, consent of supervising faculty member, GPA of at least 2.75 and Junior standing.

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)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MKT 320, MKT 392, and senior standing.

Taught: Fall and spring

Decision making related to objectives in performing marketing functions; adjustment of goods and services to consumer demand; simulated competition and case methodology. Open only to students certified as majoring in business or by consent of instructor.

MKT 492 Advanced Marketing Research (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 340 (or OST 311), MKT 320, MKT 392, BIS 380 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 for a local non-profit organization. Open only to students in the marketing research track.

MKT 499 Independent Study: Marketing (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205, 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.

Military Science Courses (MSC)**MSC 101 Leadership and Personal Development (1 credit)**

Taught: Fall, winter, spring and summer

MSC 102 Leadership Lab (1 credit)

Taught: Fall, winter, spring and summer

MSC 103 Intro to Tactical Leadership (1-3 credits)

Taught: Fall, winter, spring and summer

MSC 104 Leadership Lab (1-3 credits)

Taught: Fall, winter, spring and summer

MSC 121 Foundations of Officership (1 credit)

Taught: Fall, winter, spring and summer

MSC 121L Leadership Lab I (1 credit)

Taught: Fall, winter, spring and summer

MSC 201 Innovative Team Leadership (3 credits)

Taught: Fall, winter, spring and summer

MSC 202 Leadership Lab (1 credit)

Taught: Fall, winter, spring and summer

MSC 203 Foundations of Tactical Ldrshp (3 credits)

Taught: Fall, winter, spring and summer

MSC 204 Leadership Lab (1-2 credits)

Taught: Fall, winter, spring and summer

MSC 220 Individual Leadership Studies (2 credits)

Taught: Fall, winter, spring and summer

MSC 220L Leadership Lab II (1 credit)

Taught: Fall, winter, spring and summer

MSC 221 Leadership II (2 credits)

Taught: Fall, winter, spring and summer

MSC 221L Leadership II Lab (0 credits)

Taught: Fall, winter, spring and summer

MSC 301 Adaptive Team Leadership (3 credits)

Taught: Fall, winter, spring and summer

MSC 303 Leadership Under Fire (3 credits)

Taught: Fall, winter, spring and summer

MSC 304 Leadership Lab (1 credit)

Taught: Fall, winter, spring and summer

MSC 321 Leadership and Problem Solving (3 credits)

Taught: Fall, winter, spring and summer

MSC 321L Leadership Lab III (1 credit)

Taught: Fall, winter, spring and summer

MSC 322 Advanced Military Tactics (3 credits)

Taught: Fall, winter, spring and summer

MSC 322L Fundamentals of Tactis Lab (0 credits)

Taught: Fall, winter, spring and summer

MSC 403 Leadership in A Complex World (3 credits)

Taught: Fall, winter, spring and summer

MSC 404 Leadership Lab (1 credit)

Taught: Fall, winter, spring and summer

MSC 421 Leadership and Management (3 credits)

Taught: Fall, winter, spring and summer

MSC 421L Leadership Lab IV (1 credit)

Taught: Fall, winter, spring and summer

MSC 422 Professional Development (3 credits)

Taught: Fall, winter, spring and summer

MSC 422L Professional Development Lab (0 credits)

Taught: Fall, winter, spring and summer

Music Courses (MUS)**MUS 100 Music Appreciation - AH (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Survey of the development of music in Western civilization, with emphasis on the interdependence of classical music with art, literature, politics, religion, socio-economic changes, and world influences. Emphasis will be placed on developing a working knowledge of musical vocabulary and rhetoric, listening skills and the ability to identify differing musical styles, as well as familiarity with monuments of music and major composers.

General education credit: Culture and Creativity

MUS 104 Orientation to Music Education (1 credit)

Hours: 1 classroom + 0 lab/studio

Taught: Spring only

The purpose of this course is to explore the profession of music education. The course is intended for anyone who is interested in teaching vocal, instrumental, or general music in P-12 schools.

MUS 106 Music of World Cultures - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

An overview of traditional musics from cultures and regions throughout the world focusing primarily on non-Western traditions. This course examines music as a cultural phenomenon influencing the lives and traditions of contemporary cultures and past civilizations.

General education credit: Global Viewpoints

MUS 107 Survey of Afro-American Music (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Music of the present; oral folk tradition; transition to present day works of African-American composers, and their relationships to western and non-western traditions.

MUS 108 History of Rock and Roll (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Survey of the history, aesthetics, and sociology of rock and roll in the United States from its origins to the present.

MUS 109 History of American Popular Music (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
 Survey of the history and development of American popular music from 1940 to the present.

MUS 110 Appreciation of Jazz - SB (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
 Survey of America's first indigenous art form and the elements influencing its historical, artistic, and socio-cultural impact nationally and globally. Emphasis will be placed on stylistic periods, historical contexts, major artists, and cultural influences of African and Western music methodologies as they relate to the development of the jazz idiom. Development of basic listening and music skills will be cultivated through the discussion of recordings, artist profiles, and concept application.
General education credit: Cultural Pluralism

MUS 119 Introduction to the Keyboard and Solfège (1 credit)

Hours: 0 classroom + 1.5 lab/studio
Taught: Fall only
 Application of music theory fundamentals to the keyboard. Elementary introduction to solfège. For students with limited background in music.

MUS 120 Introduction to Music Theory (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
 Rudiments of music theory, including scales, key signatures, intervals, triads, and an introduction to harmonic analysis. For students with limited background in music.

MUS 121 Supplemental Theory (1 credit)

Hours: 0 classroom + 2 lab/studio
Co-requisites: MUS 122.
Taught: Fall only
 Reinforcement and drill of music theory fundamentals. For students with a moderate background in music.

MUS 122 Music Theory I (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Adequate score on departmental music theory placement test, or C or better in MUS 120.
Taught: Fall and spring
 Basic vocabulary of music and its application to harmony, counterpoint, and analysis.

MUS 123 Music Theory II (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in MUS 122.
Taught: Fall and spring
 Continuation of MUS 122. Introduction to chromatic functions; secondary dominants and modulation.

MUS 124 Aural Skills I (1 credit)

Hours: 0 classroom + 1.5 lab/studio
Taught: Fall and spring
 Sight-singing and dictation. Stepwise melodies, harmonic dictation of tonic and dominant chords. Triad recognition.

MUS 125 Aural Skills II (1 credit)

Hours: 0 classroom + 1.5 lab/studio
Taught: Fall and spring
 Sight-singing and dictation. Rhythmic subdivisions. Tonic, dominant, and subdominant triads in root position and first inversion.

MUS 126 Aural Skills III (1 credit)

Hours: 0 classroom + 1.5 lab/studio
Prerequisites: C or better in MUS 125.
Taught: Fall and spring
 Sight-singing and dictation. Different macro-beat values. Dominant seventh chords and inversions.

MUS 127 Aural Skills IV (1 credit)

Hours: 0 classroom + 1.5 lab/studio
Taught: Fall and spring
 Sight-singing and dictation. Common cross-rhythms. All diatonic triads and the dominant seventh.

MUS 130 Introduction to Music Literature (2 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Fall only
 Major forms and some important masterworks of western music from the Renaissance through the 20th century; development of listening skills.

MUS 135 Class Piano for Non-Music Students I (1 credit)

Hours: 0 classroom + 3 lab/studio
Taught: Fall and spring
 Group instruction in piano; development of reading, technique, and functional keyboard skills for students not majoring in music.

MUS 136 Class Piano for Non-Music Students II (1 credit)

Hours: 0 classroom + 3 lab/studio
Prerequisites: MUS 135 or 1 or more years of private piano study, or consent of instructor.
Taught: Variable, check with department
 Intermediate level group instruction in piano; further development of reading technique, and functional keyboard skills for students not majoring in music. Limit 18 per class.

MUS 140 Class Piano I (1 credit)

Hours: 0 classroom + 1.5 lab/studio
Taught: Fall and spring
 Group instruction in piano; development of reading, technique, and functional skills helpful for elementary school teachers and others majoring in music.

MUS 141 Class Piano II (1 credit)

Hours: 0 classroom + 1.5 lab/studio
Taught: Fall and spring
 Continuation of MUS 140.

MUS 142 Class Piano III (1 credit)

Hours: 0 classroom + 1.5 lab/studio
Prerequisites: C or better in MUS 141.
Taught: Fall and spring
 Continuation of MUS 141.

MUS 143 Class Piano IV (1 credit)

Hours: 0 classroom + 1.5 lab/studio
Taught: Fall and spring
 Continuation of MUS 142.

MUS 146 Group Voice (1 credit)

Hours: 3 classroom + 0 lab/studio
Taught: Fall only
 Vocal technique; theory and development of the singing voice; posture, breathing, correct tone production, diction, and stage deportment. For students majoring in music.

MUS 148 Group Guitar (1 credit)

Hours: 0 classroom + 2 lab/studio
Taught: Fall and spring
 Group instruction in beginning guitar; development of reading, technique, and functional skills helpful for elementary school teachers and others majoring in music.

MUS 164 Applied Jazz Piano (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio
Taught: Fall and spring
 Private instruction in jazz piano. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 165 Applied Jazz Guitar (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio
Taught: Fall and spring
 Private instruction in jazz guitar. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 182 Applied Trombone (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 183 Applied Music: Euphonium (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 184 Applied Music: Tuba (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 185 Applied Piano (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 186 Applied Organ (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 187 Applied Voice (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 188 Applied Guitar (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 189 Applied Percussion (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours.

MUS 195 Music: Experimental (1 credit)*Hours: 1-3 classroom + 0 lab/studio**Taught: Variable, check with department***MUS 196 Recital Review (0 credits)***Hours: 0 classroom + 1 lab/studio**Taught: Fall and spring*

Students majoring in music, unless excused by the music chair, must register each semester for, and pass, MUS 196. Course requirements are satisfied by certified attendance and review a minimum of 16 approved recitals/concerts per semester (eight during student teaching).

MUS 197 Freshman Proficiency Jury (0 credits)*Hours: 0 classroom + 0 lab/studio**Taught: Fall and spring*

As part of the admission process to a music degree program, freshmen students majoring in music must pass a freshman Proficiency Jury in applied music after two semesters of applied study.

MUS 222 Music Theory III (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C or better in MUS 123.**Taught: Fall and spring*

Continuation of MUS 123. Advanced contrapuntal and harmonic vocabulary and techniques.

MUS 223 Music Theory IV (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C or better in MUS 222.**Taught: Fall and spring*

Twentieth-century musical techniques approached through analysis and composition.

MUS 224 Aural Skills V (1 credit)*Hours: 0 classroom + 1.5 lab/studio**Prerequisites: C- or better in MUS 127.**Taught: Fall and spring*

Sight-singing and dictation. Syncopation. Diatonic seventh chords, and secondary dominants of dominant and subdominant.

MUS 225 Aural Skills VI (1 credit)*Hours: 0 classroom + 1.5 lab/studio**Taught: Fall and spring*

Sight-singing and dictation. Secondary rhythmic subdivisions. Secondary dominants, and modulations to closely related keys.

MUS 226 Aural Skills VII (1 credit)*Hours: 0 classroom + 1.5 lab/studio**Prerequisites: C- or better in MUS 225.**Taught: Fall and spring*

Sight-singing and dictation. Changing meter. All secondary dominants, and modulation to closely related keys.

MUS 227 Aural Skills VIII (1 credit)*Hours: 0 classroom + 1.5 lab/studio**Taught: Fall and spring*

Sight-singing and dictation. Asymmetrical meters. Church modes. Modulation to distantly-related keys.

MUS 228 Applied Composition (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio*

Prerequisites: placement test; at least 2.50 in music theory/aural skills. Fees assessed according to contact hours.

Taught: Fall and spring

Private or semi-private instruction in music composition. May be repeated for credit. 1/2 contact hour=1 sem. hr.; 1 contact hour = 2 sem. hrs.

MUS 230 History of Music I: Antiquity through Early Baroque (3 credits)*Hours: 3 classroom + 0 lab/studio**Taught: Fall and spring*

Music in western civilization from the earliest sources to the late 17th century. (ca. 1680).

MUS 231 History of Music II: Late Baroque to Mid 19th Century (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Music in western civilization from ca. 1680 to ca. 1850.

MUS 235 Group Jazz Piano I (1 credit)

Hours: 0 classroom + 3 lab/studio

Prerequisites: C or better in MUS 143.

Taught: Fall only

Introduction to jazz harmony and jazz piano skills.

MUS 236 Group Jazz Piano II (1 credit)

Hours: 0 classroom + 3 lab/studio

Prerequisites: C or better in MUS 235.

Taught: Spring only

Advanced study in jazz harmony and jazz piano skills.

MUS 237 Jazz Improvisation I (2 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Application of jazz vocabulary and melodic constructs within the jazz repertoire; ear training through transcription of solos; and memorization of standard jazz repertoire.

MUS 238 Jazz Improvisation II (2 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MUS 237.

Taught: Spring only

Continued study of the tools of jazz improvisation; application and study of Bebop vocabulary; transcription of Bebop and Hard Bop solos; memorization of solos.

MUS 241 Applied Methods and Materials: Brass (1 credit)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Pre-Music Education or Music Education Majors only.

Taught: Fall only

Class instruction in performance and pedagogy.

MUS 243 Applied Methods and Materials: Woodwinds (1 credit)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Pre-Music Education or Music Education Majors only.

Taught: Spring only

Class instruction in performance and pedagogy.

MUS 245 Applied Methods and Materials: Strings (1 credit)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Pre-Music Education or Music Education Majors only.

Taught: Fall only

Class instruction in performance and pedagogy.

MUS 247 Applied Methods and Materials: Percussion (1 credit)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Pre-Music Education or Music Education Majors only.

Taught: Spring only

Class instruction in performance and pedagogy.

MUS 249 Instruments for Singers, Pianists, and Guitarists (1 credit)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Pre-Music Education or Music Education Majors only.

Taught: Fall only

Instrumental techniques, basic transpositions, and fundamentals of pedagogy; instruction in dealing with instruments as a conductor.

MUS 254 Applied Jazz Piano (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio

Taught: Fall and spring

Private instruction in jazz piano. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. Hr.; 1 contact hour = 2 sem. Hrs. Fees assessed according to contact hours.

MUS 260 Music Fundamentals and Skills for Classroom Teachers (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: EDU 104.

Taught: Fall, spring, and summer

Designed to train teachers in grades one through six to read music, keyboard, auto harp, and recorder experiences; methods and materials. For students not majoring in music.

MUS 261 Class Piano V (1 credit)

Hours: 0 classroom + 1.5 lab/studio

Prerequisites: C or better in MUS 143.

Taught: Fall and spring

Continuation of Class Piano sequence.

MUS 262 Class Piano VI (1 credit)

Hours: 0 classroom + 1.5 lab/studio

Taught: Fall and spring

Continuation of MUS 261.

MUS 263 Class Piano VII (1 credit)

Hours: 0 classroom + 1.5 lab/studio

Prerequisites: C or better in MUS 262.

Taught: Fall and spring

Continuation of Class Piano sequence.

MUS 264 Class Piano VIII (1 credit)

Hours: 0 classroom + 1.5 lab/studio

Taught: Fall and spring

Continuation of MUS 263.

MUS 265 Applied Jazz Guitar (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio

Taught: Fall and spring

Private instruction in jazz guitar. Open to students majoring or minoring in music; to other

students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 266 Applied Jazz Percussion (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio

Taught: Fall and spring

Private instruction in jazz percussion. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 267 Applied Jazz Bass (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio

Taught: Fall and spring

Private instruction in jazz bass. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 268 Applied Harp (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 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)

Hours: 0 classroom + .5-1 lab/studio

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 270 Applied Piano Accompanying (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester

semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 286 Applied Organ (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 287 Applied Voice (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 288 Applied Guitar (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 289 Applied Percussion (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours.

MUS 291W Advanced Writing in the Music Profession (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101.

Taught: Spring only

For students planning careers in music or who have an interest in the field. Treats writing as a process of research, revision, multiple drafts, and feedback through peer workshops and

instructor conferences. Incorporates close reading and critical thinking to help students engage with the ideas of others and to discover new writing techniques.

General education credit: Written Communication II

MUS 296 Piano Proficiency (0 credits)

Hours: 0 classroom + 0 lab/studio

Taught: Fall and spring

All students majoring in music must pass a piano proficiency examination to qualify for admission to a degree program.

MUS 297 Sophomore Comprehensive Jury (0 credits)

Hours: 0 classroom + 0 lab/studio

Taught: Fall and spring

At the end of four semesters of applied study, students majoring in music must pass the Junior Standing Jury in applied music to qualify for admission to a degree program.

MUS 300 Guitar Ensemble (0-1 credits)

Hours: 0 classroom + 3 lab/studio

Taught: Fall and spring

Preparation and performance of a wide variety of literature for guitar ensemble. May be repeated for credit.

MUS 301 The Northern Chorale (0-1 credits)

Hours: 0 classroom + 3 lab/studio

Prerequisites: audition the first class period.

Taught: Fall and spring

Chorale ensemble specializing in choral literature ranging from short octavos to extended works. For students majoring in voice and in music, and for musically talented general students. May be repeated for credit.

MUS 302 Chamber Choir (0-1 credits)

Hours: 0 classroom + 6 lab/studio

Prerequisites: audition.

Taught: Fall and spring

A select choral ensemble specializing in a variety of the best choral literature. For music students, voice students. May be repeated for credit. All music majors and minors must fulfill their ensemble credit requirements prior to opting for the 0 cr.

MUS 303 Women's Ensemble (0-1 credits)

Hours: 0 classroom + 3 lab/studio

Taught: Fall and spring

Open to all female students. Performance of a variety of music. No audition necessary. May be repeated for credit.

MUS 304 Opera Workshop (0-2 credits)

Hours: 0 classroom + 3 lab/studio

Prerequisites: audition.

Taught: Fall only-even years

Musical and dramatic principles and techniques required of performers in musical thea-

tre; needs of the singing actor, class presentations of roles and scenes from standard and contemporary operas and musicals. May be repeated for credit.

MUS 305 Ensemble Accompanying (2 credits)

Hours: 0 classroom + 2 lab/studio

Prerequisites: Pre-Music Education or Music Education Majors only. Consent of instructor

Accompanying ensembles.

Taught: Fall and spring

MUS 306 Vocal Jazz Ensemble (0-1 credits)

Hours: 0 classroom + 3 lab/studio

Prerequisites: audition.

Taught: Fall and spring

A select choral ensemble specializing in vocal jazz performance and literature; singing in various jazz styles, improvisational singing, microphone techniques, and balance and blend for a small ensemble. May be repeated for credit.

MUS 307 Jazz Combo (0-1 credits)

Hours: 0 classroom + 3 lab/studio

Prerequisites: Audition and consent of instructor.

Taught: Fall and spring

The course is designed to give intermediate to advanced jazz students an opportunity to explore the small group dynamic that has become an integral part of the jazz art form. Focus is on the integration of many styles under the umbrella of the jazz idiom via a wider appreciation of jazz recordings, vocabulary, styles, and arranging.

MUS 308 NKU Philharmonic (0-1 credits)

Hours: 0 classroom + 3 lab/studio

Prerequisites: audition and consent of instructor.

Taught: Fall and spring

Orchestral ensemble that rehearses and performs repertoire from the early Baroque to the present. Participation is open to all students, community members, and qualified students of the NKU Preparatory Program. May be repeated for credit.

MUS 309 Introduction to Music Education (2 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 104 or EDU 104; 48 semester hours as specified in the curriculum contract; at least 2.75 GPA; completion of pre-music curriculum required.

Taught: Spring only

Students examine the teaching profession and schooling as it currently functions in America. Emphasis on the Kentucky Education Reform Act, educational theory, and educational practice. Provides music education majors an over-

view of the total school music program. Observation and clinical experience required.

MUS 310 Chamber Music Ensembles (0-1 credits)

Hours: 0 classroom + 1-3. lab/studio

Prerequisites: 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 Skills (1 credit)

Hours: 0 classroom + 1-3. lab/studio

Prerequisites: MUS 296 or Consent of instructor.

Taught: Fall and spring

Introduction to the skills required of pianists in collaborative or accompanimental work with other musicians. May be repeated for credit.

MUS 312 Computer Applications for Musicians (1 credit)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MUS 123.

Taught: Fall and spring

Introduction to computer uses for musicians and their art; basic concepts of electronic music, music scoring, part writing, and desktop publishing for musical programs; word processing, spreadsheets; data bases, graphics, and communications; MIDI (musical instrument digital interface); computer ethics. Required in place of EDU 313 for students majoring in music education.

MUS 313 Advanced Electronic and Computer Music Techniques (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MUS 312 or consent of instructor.

Taught: Variable, check with department
computer applications unique to musicians and their art; further development of skills in electronic music, computer music publishing and part writing, and music desktop publishing; advanced MIDI (musical instrument digital interface) techniques and realization of music through computer playback of digitized sampled sound. May be repeated for credit.

MUS 314 University Concert Band (0-1 credits)

Hours: 0 classroom + 3 lab/studio

Taught: Fall and spring

Preparation and performance of a wide variety of band literature. May be repeated for credit. Open to all students. NO audition necessary.

MUS 315 Chamber Orchestra (0-1 credits)

Hours: 0 classroom + 6 lab/studio

Prerequisites: audition.

Taught: Fall and spring

Preparation and performance of traditional and contemporary literature for small orchestra; public concerts and performance for university functions. May be repeated for credit.

MUS 316 Symphonic Winds (0-1 credits)

Hours: 0 classroom + 6 lab/studio

Prerequisites: auditions.

Taught: Fall and spring

Preparation of performance of traditional and contemporary literature for band; public concerts and performance for university functions. Open to all students. May be repeated for credit.

MUS 317 Jazz Ensemble (0-1 credits)

Hours: 0 classroom + 5 lab/studio

Prerequisites: audition.

Taught: Fall and spring

Preparation and performance of traditional and contemporary literature for large jazz ensemble; public concerts and performance for university functions. May be repeated for credit.

MUS 319 Steel Drum Ensemble (0-1 credits)

Hours: 0 classroom + 3 lab/studio

Prerequisites: audition.

Taught: Fall and spring

Preparation and performance of traditional and contemporary literature for steel drum ensemble; public concerts and performance for university functions. May be repeated for credit.

MUS 321 Jazz Arranging I (2 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 123, 127.

Taught: Fall only-odd years

Study of basic harmonic and melodic analysis, chord construction, rhythms, chord/scale relationships, nomenclature, and voice leading in the jazz idiom.

MUS 322 Jazz Arranging II (2 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 321.

Taught: Spring only-even yrs

Advanced concepts of jazz theory, composition, and arranging.

MUS 323 Jazz Theory (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 123 with a C or better.

Taught: Variable, check with department

Fundamentals of jazz music theory, including chord and scale nomenclature, common progressions, forms, and reharmonization.

MUS 324 Orchestration I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 223 or consent of instructor.

Taught: Fall only

Instrumentation and scoring for orchestral choirs and full orchestra.

MUS 325 Form and Analysis (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MUS 223 and MUS 225.

Taught: Fall and spring

Harmonic, contrapuntal, and formal procedure in works of major composers; techniques of musical analysis.

MUS 326 Materials and Techniques of Music Composition (2 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 122.

Taught: Spring only

Exploration of the compositional techniques, resources, and technologies available to composers today; concentration on creative and analytical projects.

MUS 327 Counterpoint (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 223.

Taught: Fall only

Study and imitation of contrapuntal techniques and styles throughout music history, with particular focus on late Renaissance and late Baroque counterpoint.

MUS 328 Applied Composition (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio

Prerequisites: MUS 229 and junior standing.

Taught: Fall and spring

Private or semi private instruction in music composition. May be repeated for credit. 1/2 contact hour=1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 330 Opera Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

MUS 331 Keyboard Literature I (2 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 230 and MUS 231 or consent of instructor.

Taught: Fall only-odd years

Keyboard literature and its development from the renaissance to the early classical period; performance practices, interpretation, and styles.

MUS 332 Keyboard Literature II (2 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 331.

Taught: Spring only-even yrs

Keyboard literature and its development from the middle classical period to the present; performance practices, interpretation, and styles.

MUS 333 Vocal Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 230-231 or consent of instructor.

Taught: Fall only-even years

Solo song repertoire of western world from the troubadours to the present; style, interpretation, and program building.

MUS 336 Choral Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 231 or consent of instructor.

Taught: Spring only-odd yrs

Choral literature from 1450 to the present; stylistic traits, types of compositions; aesthetic considerations.

MUS 337 History of Music III: Mid 19th and 20th Centuries (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 230-231.

Taught: Spring only

Music in western civilization from ca. 1850 to the present. Required of all students majoring in music as an upper division history and literature course.

MUS 339 History of Jazz (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 130.

Taught: Spring only-odd yrs

Overview of the major stylistic periods of jazz from its origins through the late 1970's.

MUS 340 General and Vocal Music P-8 (2 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 309, EDU 311 and Passing of Music Education Four Semester Check.

Taught: Spring only

Rhythm band and Orff instruments; review of teaching methods, review of materials in music series, methods and objectives for each grade level, KERA policies and procedures.

MUS 345 Keyboard Skills I (1 credit)

Hours: 0 classroom + 2 lab/studio

Prerequisites: consent of instructor.

Taught: Fall only-odd years

Developing proficiency in functional keyboard skills; sight-reading, transposition, harmonization, playing by ear, and improvisation.

MUS 346 Keyboard Skills II (1 credit)

Hours: 0 classroom + 2 lab/studio

Prerequisites: MUS 345.

Taught: Spring only-even yrs

Continued principles and techniques of sight reading, transposition, harmonization, playing by ear, and improvisation.

MUS 348 Piano Pedagogy I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Fall only-even years

Preschool music programs; survey of philosophies and observation of teaching methods such as Suzuki, Orff, Dalcroze, Kodaly, Kindermusik, and Musikgarten.

MUS 349 Piano Pedagogy II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Spring only-odd yrs

Elementary level; continuation of philosophies and methods as applied to primary grade children; early keyboard technique; musicianship; survey of teaching materials and music appropriate to this age level; business procedures for the independent music studio.

MUS 350 Music Technology I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 312.

Taught: Fall and spring

Fundamental techniques, equipment and applications of contemporary music technology. Computer and internet software will be studied as potential tools for education, composition and performance. Aspects of MIDI, analog and digital audio, acoustics, music notation software, and multimedia will be examined.

MUS 351 Music Technology II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 350.

Taught: Fall and spring

Advanced course in electroacoustic music and computer applications in music. MIDI studio set-ups; intermediate to advanced applications in sequencing and scoring software; introduction to digital recording techniques with applications in film, video, broadcasting and multimedia; introduction to writing for multimedia and instruction.

MUS 352 Conducting I (2 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MUS 122 or consent of instructor.

Taught: Fall only

Introduction to the craft of conducting. Beat patterns, left hand, entrances, releases, dynamics, terminology, styles of articulation, and baton technique. Instrumental and choral music.

MUS 353 Conducting II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MUS 352 or consent of instructor.

Taught: Spring only

Continued refinement of skills developed in MUS 352; score study techniques, terminology, and transposition.

MUS 354 Lyric Diction I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 123, 127, and 4 semester hours of MUS 187.

Taught: Fall only

A phonetic study of English, Latin, and Italian as utilized by the singer. Readings and performances of song lyrics.

MUS 355 Lyric Diction II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 354.

Taught: Spring only-odd yrs

A phonetic study of German and French as utilized by the singer. Readings and performances of song lyrics.

MUS 356 Mixing Techniques I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 312.

Taught: Fall and spring

This course covers the fundamentals and practical applications of digital audio systems, as well as methods for functioning in integrated Digital Audio Workstation (DAW) & Studio environments. Course topics include system setup and interconnections, and synchronization; aspects of digital recording consoles/mixers, such as paged architecture, I/O, work clock, sample rate, and bit depth; and basics of a DAW, such as the elements of hard-disk recording, track and file management, digital audio, and sequencing strategies. Emphasis on Pro Tools as the main DAW used.

MUS 357 Mixing Techniques II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 356.

Taught: Fall and spring

A study of the functional operation of equipment used in multi-track mixdown of digital master recordings in a digital audio workstation environment. There will be an emphasis on critical listening and aesthetic consideration. Topics covered will include common DAW procedures and protocol, data management, mixing using a reference, signal flow, editing, and digital signal processing (plug-ins). Mixing exercises of pre-recorded multi-track files.

MUS 358 Commercial Music Production I (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: MUS 312.**Taught: Fall and spring*

Roles and responsibilities of music producers and engineers from idea inception to finished product. An overview of studio technologies and basic recording procedures.

MUS 359 Commercial Music Production II (3 credits)*Hours: 3 classroom, 0 lab/studio**Prerequisites: MUS 358.**Taught: Fall and spring*

An in-depth, project-oriented class designed to give the student intensive exposure to the creative and technical issues involved in advanced music editing and CD (and DVD) mastering, including multimedia formats and Internet audio. Further areas of exploration include, but are not limited to, surround audio, audio restoration and forensic audio.

MUS 360 Composition for Commercial Media (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: MUS 223 and MUS 312.**Taught: Fall and spring*

Application of the foundations of music technology to media including film, gaming, television, and other visual mediums.

MUS 361 Advanced Music Production (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: EMB 320.**Taught: Variable, check with department*

The course is an intensive, project-oriented audio production course. Topics will include, but are not limited to: audio for media, applied media aesthetics, sound design, as well as creative and artistic approaches to various types of sophisticated audio production including music recording and radio production.

MUS 364 Applied Jazz Piano (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 164.**Taught: Fall and spring*

Private instruction in jazz piano. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 365 Applied Jazz Guitar (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Taught: Fall and spring*

Private instruction in jazz guitar. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem.

hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 366 Applied Jazz Percussion (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Taught: Fall and spring*

Private instruction in jazz percussion. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 367 Applied Jazz Bass (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Taught: Fall and spring*

Private instruction in jazz bass. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 contact hour = 1 sem. hr.; 1 contact hour = 2 sem. hrs. Fees assessed according to contact hours.

MUS 368 Applied Harp (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 369 Applied Harpsichord (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 370 Applied Piano Accompanying (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 se-

mester hours. Fees assessed according to contact hours.

MUS 371 Applied Violin (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 372 Applied Viola (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 373 Applied Cello (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 374 Applied Bass (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours.

MUS 375 Applied Flute (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and

MUS 389 Applied Percussion (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio

Prerequisites: MUS 297.

Taught: Fall and spring

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or 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)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: junior standing or consent of instructor.

Taught: Fall and spring

In-depth study of specialized topics in music. May be repeated for credit up to 9 semester hours when topics vary.

MUS 397 Junior Recital (0 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Fall and spring

Students majoring in applied music and music education must give a one half hour junior recital prior to graduation. A recital jury audition must be passed at least one month prior to the public performance.

MUS 399 Independent Study: Music (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Fall and spring

Individual creative or research projects; projects, directed by members of the faculty, must be approved before registration. May be repeated for credit.

MUS 424 Jazz Pedagogy (2 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 339.

Taught: Fall and spring

An in depth study of the techniques, processes, and management of a jazz program in the school setting.

MUS 426 Jazz Styles and Analysis (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MUS 238, 322, 339, and 8 semester hours of applied music.

Taught: Fall and spring

Capstone course utilizing information from previous courses to better understand the social, musical, and cultural implications of jazz.

MUS 428 Applied Composition (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio

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. PREREQ: MUS 329

MUS 442 Choral Methods I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: EDU 311 and C or better in MUS 352 and Passing of Music Education Four Semester Check.

Taught: Spring only

This course integrates formal knowledge in the university classroom with field experiences in order to prepare pre-service music educators to teach K – 12 choral music students in their first two years of a vocal music class.

MUS 443 Choral Methods II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: EDU 311 and C or better in MUS 352 and Passing of Music Education Four Semester Check.

Taught: Fall only

This course is designed to prepare choral-emphasis music education majors to synthesize the knowledge and skills that will enable them to develop and maintain a comprehensive choral music program at the secondary level.

MUS 444 Instrumental Methods I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: EDU 311 and C or better in MUS 352 and Passing of Music Education Four Semester Check.

Taught: Spring only

This course integrates formal knowledge in the university classroom with field experiences in order to prepare pre-service music educators to teach P–12 instrumental music students in their first two years of instrumental music class.

MUS 445 Instrumental Methods II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: EDU 311 and C or better in MUS 352 and Passing of Music Education Four Semester Check.

Taught: Fall only

This course is designed to prepare instrumental-emphasis music education majors to synthesize the knowledge and skills that will enable them to develop and maintain a comprehensive instrumental music program at the secondary level.

MUS 446 Vocal Pedagogy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Fall only-odd years

Directed readings, discussions and evaluations of vocal pedagogical philosophies; studies of the teaching materials and physical and psychological problems in the teaching of voice; observation of voice lessons and supervised teaching.

MUS 447 Seminar in Piano Pedagogy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Techniques of major pedagogical philosophies; studies (etudes, methods, exercises, and piano literature as applied to development in piano instruction and performance.

MUS 448 Piano Pedagogy III (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Fall only-odd years

Intermediate level; teaching teens and adults; creative practicing; piano technique; survey of materials and literature appropriate for this level; business procedures for the independent music studio.

MUS 449 Piano Pedagogy IV (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Spring only-even yrs

Advanced level; repertoire; philosophies of schools of piano playing; treat pianists and their teaching; productive practicing; performance practices; literature and materials appropriate to this level; business procedures for the independent music studio.

MUS 464 Applied Jazz Piano (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio

Taught: Fall and spring

Private instruction in jazz piano. Open to students majoring or 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 465 Applied Jazz Piano (1-2 credits)

Hours: 0 classroom + .5-1 lab/studio

Taught: Fall and spring

Private instruction in jazz guitar. Open to students majoring or 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 480 Applied Trumpet (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 481 Applied French Horn (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 482 Applied Trombone (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 483 Applied Euphonium (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 484 Applied Tuba (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to

students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 485 Applied Piano (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 486 Applied Organ (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 487 Applied Voice (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 488 Applied Guitar (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 489 Applied Percussion (1-2 credits)*Hours: 0 classroom + .5-1 lab/studio**Prerequisites: MUS 297.**Taught: Fall and spring*

Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. 1/2 hr. contact = 1 semester hours; and 1 contact hr. = 2 semester hours. Fees assessed according to contact hours.

MUS 496 Senior Capstone (0-4 credits)*Hours: 0 classroom + 0-4 Lab Hours**Prerequisites: MUS 297.**Taught: Variable, check with department*

Bachelor of Arts majors only. An independent project under close supervision of a faculty member: a recital, an internship, a research paper, a creative project, or a collaboration. A proposal must be approved by the department chair and three full-time faculty including the project supervisor by midterm of the preceding semester.

MUS 497 Senior Recital (0 credits)*Hours: 0 classroom + 0 lab/studio**Prerequisites: consent of instructor.**Taught: Fall and spring*

Students majoring in applied music must give a one hour senior recital prior to graduation. A recital jury audition must be passed at least one month prior to the public performance.

Neuroscience Courses (NEU)**NEU 493 Cognitive Neuroscience Seminar (1 credit)***Hours: 1 classroom + 0 lab/studio**Prerequisites: PSY 311 or consent of instructor.**Taught: Spring only*

Serves as a capstone experience for students in the neuroscience minor. Readings and discussions directed at large-scale issues in neuroscience, typically achieved through review of the current literature. Intended to stimulate critical thinking and integration of material learned in earlier courses in the neuroscience minor.

Nursing Registered Professional Courses (NRP)**NRP 316L Evaluation of Clinical Performance (5 credits)***Hours: 0 classroom + 12 lab/studio**Prerequisites: admission to RN-BSN program.**Co-requisites: NRP 317L and NRP 401.**Taught: Variable, check with department*

Demonstration of cognitive and technical skills in provision of client care under supervision of faculty; use of nursing process as a framework

for client care across developmental levels in various settings.

NRP 317L Decision Making in Nursing (5 credits)

Hours: 0 classroom + 12 lab/studio
Prerequisites: Admission to RN-BSN program.
Co-requisites: NRP 316L and NRP 401.
Taught: Variable, check with department
 Demonstration of cognitive and critical thinking skills in making decisions in standardized clinical CAI situations; use of nursing process as a decision making framework.

NRP 399 Independent Study (1-3 credits)

Hours: NA classroom + NA lab/studio
Prerequisites: Consent of instructor and program director prior to registration.
Taught: Variable, check with department
 Individual readings, research, and/or projects relating to professional nursing practice and developed by students in consultation with faculty prior to registration; written agreement to include purpose, objectives, instructional activities, time frame, and evaluation method. Not intended to substitute for any course offered on a regular basis.

NRP 401 Theories and Concepts of Professional Nursing (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to RN/BSN program and NRP 316L and NRP 317L.
Taught: Fall only
 Concepts and theories providing the foundation for development of the advanced professional nursing role; relationships between client, nurse, health, and environment to foster congruent role behavior of the registered nurse student and advanced professional nursing practice.

NRP 410 Nursing Research (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: STA 205.
Prereq OR Co-req: NRP 401.
Taught: Fall only
 Overview of the research process in nursing; historical development of nursing research; role of research in scientific advancement nursing; development of ability to critique clinical nursing research studies.

NRP 411 Holistic Nursing Assessment (2 credits)

Hours: 0 classroom + 2 lab/studio
Co-requisites: NRP 413L and NRP 415L.
Prereq OR Co-req: NRP 401 and NRP 410.
Taught: Fall only
 Principles of holistic health assessment of existing and potential client problems with a view toward planning nursing care.

NRP 413L Nursing Assessment Laboratory (1 credit)

Hours: 0 classroom + 4 lab/studio
Co-requisites: NRP 411 and NRP 415L.
Taught: Fall only
 Application of holistic health assessment techniques in the laboratory setting.

NRP 415L Nursing Assessment Practicum (2 credits)

Hours: 3 classroom + 0 lab/studio
Co-requisites: NRP 411 and NRP 413L.
Taught: Fall only
 Application of nursing history and physical assessment techniques in formulating nursing diagnosis for individual clients in a variety of settings.

NRP 434 Theories in Nursing (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: NRP 401 and NRP 410 or permission of program director.
Taught: Spring only
 Study of the nature of theory development in nursing with emphasis on the evolution of the science of nursing. Evaluation of selected nursing theories as they relate to professional nursing practice.

NRP 435 Nursing in the Community (3 credits)

Hours: 0 classroom + 12 lab/studio
Co-requisites: 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. **PREREQ:** NRP 401, NRP410, NRP 411, NRP 413L, and NRP 415L;

NRP 435L Nursing in Community Practicum (6 credits)

Hours: 3 classroom + 0 lab/studio
Co-requisites: NRP 435.
Taught: Spring only
 A variety of community agencies serving a diverse population and defined risk groups; teaching, screening, case finding, referral, and evaluation of community health services.

NRP 441 Nursing Leadership (3 credits)

Hours: 0 classroom + 12 lab/studio
Prerequisites: NRP 401, 410, 411, 413L, 415L, 434 and NRP 435/435L.
Co-requisites: NRP 441L.
Taught: Fall only
 Nursing leadership concepts and functions in nursing environments; selected theories of leadership and management; collaboration for decision making and effecting change for experienced nurses.

NRP 441L Nursing Leadership Practicum (6 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: NRP 401, 410, 411, 413L, 415L, 434 and NRP 435/435L.
Co-requisites: NRP 441.
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 494 Topics: Special Topics in Nursing (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Permission of Instructor.
Taught: Variable, check with department
 This course is a special topics course of a current interest/issue in the field of nursing not covered in other nursing courses. The special topics for this class are selected from current topics in the field of nursing. Depending on the topic, the course may be a didactic or clinical practicum course.

NRP 499 Independent Study in Nursing (1-3 credits)

Hours: 2 classroom + 0 lab/studio
Prerequisites: admission to the RN to BSN program and consent of the Program Director.
Taught: Variable, check with department
 Individual readings, research, and/or projects relating to professional nursing practice and developed by students in consultation with faculty prior to registration; written agreement to include purpose, objectives, instructional activities, time frame, and evaluation method. Not intended to substitute for any course offered on a regular basis. Applicable for upper division credit only.

NRP 509 Curriculum Development in Nursing (2 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Admission to RN-MSN or MSN program.
Taught: Fall only
 Overview of the process of curriculum development and evaluation; principles of assessment, design, planning, implementation, and evaluation; program development and outcome evaluation in various nursing education settings; differences in patient, community, continuing, and professional education. Open to Registered Nurses only.

NRP 510 Educational Foundations in Nursing (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: NRP 509.
Taught: Spring only
 Principles of teaching, learning and adult education discussed. The various nursing education settings-classroom, clinical, staff devel-

opment and community-and teaching methods associated with those settings presented and analyzed. Both small and large group techniques described. Open to Registered Nurses only.

NRP 530 Introduction to Simulation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Baccalaureate degree in approved discipline of study.

Taught: Variable, check with department

Using the "Standards of Best Practice: Simulation" developed by the International Nursing Association for Clinical Simulation and Learning this course will investigate the utilization of simulation as a teaching and learning strategy in classroom and acute care settings.

NRP 531 Best Practices in Simulation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: NRP 530 and baccalaureate in approved discipline.

Taught: Variable, check with department

This course builds upon the introductory course to discuss simulation lab design, financial management of a simulation center and best practices utilized in simulation centers today.

NRP 532L Simulation Practicum (3 credits)

Hours: 0 classroom + 6 lab/studio

Prerequisites: NRP 530 and NRP 531.

Taught: Variable, check with department

Capstone clinical course in which the student will spend an intensive one week in the simulation laboratory at Northern Kentucky University refining and defining previously achieved knowledge, skills and attitudes.

NRP 650 Nursing Classification, Language and Semantics for Advanced Practice (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: STA 614, MHI 601, NRP 600, NRP 604 and admitted to program.

Co-requisites: NRP 601.

Taught: Variable, check with department

This course is focused on research, critique and application of concept representation in nursing informatics practice. It will examine current trends in nursing terminologies and the application of semantic representation to nursing practice. It will develop approaches to evaluating and applying concept-oriented language into clinical informatics applications.

Nursing Baccalaureate Courses (NRS)

NRS 210L Development of Clinical Nursing Skills (2 credits)

Hours: 0 classroom + 4 lab/studio

Prerequisites: BIO 209, BIO 209L, BIO 126, CHE 115, CHE 115L, PSY 220, and STA 205 or STA 212.

Co-requisites: NRS 215, NRS 215P, NRS 220 and NRS 220L.

Prereq OR Co-req: BIO 202 and BIO 202L.

Taught: Fall and spring

Active learning pedagogy of skills demonstration, supervised practice, simulation and skills testing for the acquisition of basic and complex nursing skills required for professional practice.

NRS 215 Fundamental Concepts of Professional Nursing Practice (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: BIO 209, BIO 209L, BIO 126, CHE 115, CHE 115L and PSY 220.

Co-requisites: NRS 210L and NRS 215P.

Taught: Fall and spring

Introduction to the nursing process, foundational nursing concepts, and theories relevant to the implementation of nursing care and health promotion to clients across the lifespan.

NRS 215P Fundamentals of Professional Nursing Practicum (2 credits)

Hours: 0 classroom + 4 lab/studio

Prerequisites: BIO 209, BIO 209L, BIO 126, CHE 115, CHE 115L and PSY 220.

Co-requisites: NRS 215.

Taught: Fall and spring

Application of foundational concepts and theories necessary for the care of clients in hospitals and extended care facilities performance of basic nursing skills under supervision of nursing clinical faculty.

NRS 220 Holistic Health Assessment of the Adult (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: BIO 209, BIO 209L, BIO 126, CHE 115, CHE 115L and PSY 220.

Co-requisites: NRS 220L.

Taught: Fall and spring

Principles of assessment of existing or potential client problems Physical condition, psychological status, development level, socio-cultural-economic history with the goal of planning nursing care.

NRS 220L Holistic Health Assessment Laboratory (1 credit)

Hours: 0 classroom + 2 lab/studio

Prerequisites: BIO 209, BIO 209L, BIO 126, CHE 115, CHE 115L and PSY 220.

Co-requisites: NRS 220.

Taught: Fall and spring

Application of holistic health assessment techniques in the laboratory setting.

NRS 250 Introduction to Medical-Surgical Nursing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: NRS 215 and NRS 220.

Co-requisites: NRS 255 and NRS 250P.

Taught: Fall and spring

Concepts and theories needed to support adaptation of clients requiring multiple nursing interventions for health maintenance and for commonly occurring alterations in health status.

NRS 250P Introduction to Medical-Surgical Nursing Practicum (4 credits)

Hours: 0 classroom + 8 lab/studio

Co-requisites: NRS 250 and NRS 255.

Taught: Fall and spring

Application of theoretical concepts in the delivery of nursing care for adult clients.

NRS 255 Pathopharm Concepts and Principles (4 credits)

Hours: 4 classroom + 0 lab/studio

Prerequisites: NRS 215 and NRS 220.

Co-requisites: NRS 255 and NRS 250P.

Taught: Fall and spring

Pathophysiological and pharmacological concepts essential for understanding and treating alterations in organ and system function basic to nursing practice.

NRS 299 Independent Study (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: admission to the BSN program and consent of instructor.

Taught: Fall and spring

Individual readings, research, and/or projects relating to professional nursing practice and developed by students in consultation with faculty prior to registration; written agreement to include purpose, objectives, instructional activities, time frame, and evaluation method. Not intended to substitute for any course offered on a regular basis. Applicable for lower division credit only.

NRS 300 Remediation (1 credit)

Hours: 1 classroom + 0 lab/studio

Co-requisites: NRS 310 and NRS 315.

Taught: Fall and spring

Required course for students who score below the benchmark score of 850 on the customized

MIDCURRICULAR exam which consists of guided remediation of prior curricular content.

NRS 310 Concepts of Community and Public Health Nursing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: NRS 250.

Co-requisites: NRS 310P, NRS 320, NRS 330 and NRS 339L.

Taught: Fall and spring

Principles of population based nursing care in community settings, health promotion, health education, epidemiology, community health problems, health policy and advocacy.

NRS 310P Concepts of Community and Public Health Nursing Practicum (2 credits)

Hours: 0 classroom + 4 lab/studio

Co-requisites: NRS 310.

Taught: Fall and spring

Serving in a variety of community agencies, the health status of diverse client groups, who are defined as at risk groups, are evaluated and health needs met through a population assessment, teaching, screening and evaluation of community health.

NRS 315 Theories and Concepts of Professional Nursing Practice (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: NRS 250.

Co-requisites: NRS 310, NRS 320.

Taught: Fall and spring

Study of the nature of theory development in nursing. Evaluation of selected nursing theories as they relate to professional nursing practice.

NRS 320 Principles of Research for Application to Professional Nursing Practice (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: NRS 250 and NRS 255.

Co-requisites: NRS 330 and NRS 339L.

Taught: Fall and spring

Overview of the research process for nursing professionals, historical development of research in healthcare, role of research in scientific advancement of nursing; development of ability to critique clinical healthcare studies and become knowledgeable consumers when integrating nursing research into practice.

NRS 330 Principles of Psychiatric and Mental Health Nursing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: NRS 250 and NRS 255.

Co-requisites: NRS 310 and NRS 330P.

Taught: Fall and spring

Concepts and theories to support nursing practice across the lifespan along the mental health continuum for all.

NRS 330P Psychiatric and Mental Health Nursing Practicum (2 credits)

Hours: 0 classroom + 4 lab/studio

Co-requisites: NRS 330.

Taught: Fall and spring

Application of concepts and theories to support nursing practice across the lifespan along the mental health continuum for all.

NRS 339L Clinical Reasoning I (1 credit)

Hours: 0 classroom + 2 lab/studio

Prerequisites: NRS 250.

Co-requisites: NRS 310 and NRS 330.

Taught: Fall and spring

Clinical reasoning and judgment are examined in relation to other modes of thinking used in providing quality health care. Students will be expected to demonstrate how safe, high-quality care can be dependent upon their ability to reason, think, and make evidence based decisions.

NRS 350 Intermediate Medical-Surgical Nursing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: NRS 310, NRS 315, NRS 320.

Co-requisites: NRS 350P, NRS 360 and NRS 370.

Taught: Fall and spring

Concepts and theories to support adaptation of clients requiring multiple advanced nursing interventions.

NRS 350P Intermediate Medical-Surgical Nursing Practicum (2 credits)

Hours: 0 classroom + 4 lab/studio

Co-requisites: NRS 350.

Taught: Fall and spring

Concepts and theories needed to support adaptation of adults requiring multiple advanced nursing interventions; principles of leadership; ethical, legal, and professional issues.

NRS 360 Principles of OB and Newborn Nursing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: NRS 310 and NRS 330.

Co-requisites: NRS 350 and NRS 370.

Taught: Fall and spring

Explores the cultural and nutritional aspects; communication techniques, pharmacotherapy, teaching and learning concepts, and nursing roles involved in health promotion, protection and crisis management of the childbearing client and family.

NRS 360P Principles of OB and Newborn Nursing Practicum (2 credits)

Hours: 0 classroom + 4 lab/studio

Co-requisites: NRS 360.

Taught: Fall and spring

Application of concepts of health promotion and crisis management in the care of childbearing families.

NRS 370 Legal, Ethical, and Professional Issues (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: NRS 310 and NRS 330.

Co-requisites: NRS 350 and NRS 360.

Taught: Fall and spring

Emerging trends in nursing education, professional nursing practice; study of ethical frameworks and legal factors influencing decision-making in nursing practice.

NRS 400 Remediation Seminar (1 credit)

Hours: 2 classroom + 0 lab/studio

Co-requisites: NRS 450.

Taught: Variable, check with department

BSN Program elective that entails a systematic review of curriculum material tailored to the aggregate results of the RN-EXIT V1 results. This course is open to all last-semester BSN majors and is strongly recommended for those students who score <900 on the RN-EXIT V1.

NRS 413 Aging in Today's Society (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Role of the older adult in society; pro-motion of health, support of continued learning, right to peaceful death. Theories of aging and ethical/legal concepts. Includes experiences with the older adult in the community, acute and long term care settings. Elective for BSN students. Open to all students.

NRS 415 Principles of Pediatric Nursing (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: NRS 350 and 360.

Co-requisites: NRS 415P, NRS 420, NRS 439L and NRS 440P.

Prereq OR Co-req: INF 355.

Taught: Fall and spring

Concepts and theories to promote health and support care for children and families in pediatric settings.

NRS 415P Pediatric Nursing Practicum (2 credits)

Hours: 0 classroom + 4 lab/studio

Co-requisites: NRS 415.

Taught: Fall and spring

Application of concepts and theories to support care of obstetric and pediatric clients and their families.

NRS 420 Concepts and Principles of Leadership Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: NRS 350 and NRS 360.

Co-requisites: NRS 415 and NRS 440P.

Taught: Fall and spring

Leadership concepts and management functions in healthcare environments; selected theories of leadership and management; col-

laboration for decision-making and effecting change.

NRS 439L Clinical Reasoning II (1 credit)

Hours: 0 classroom + 2 lab/studio
Prerequisites: NRS 350 and NRS 360.
Co-requisites: NRS 415 and NRS 420.
Taught: Fall and spring

Advanced application of clinical reasoning to integrate simulated patient scenarios. Assessment and analysis of the scenario, and implementation and evaluation; planning decisions will be critiqued in relation to their theoretical accuracy and patient care priorities.

NRS 440P Nursing Capstone 1 (2 credits)

Hours: 0 classroom + 4 lab/studio
Prerequisites: NRS 350 and NRS 360.
Co-requisites: NRS 415 and NRS 420.
Taught: Fall and spring

Under close faculty guidance the student will be placed with a clinical preceptor to: (1) conduct a needs assessment within their identified clinical or community setting identifying a nursing problem; (2) develop a written proposal to address the problem; (3) implement the intervention in the chosen setting with the preceptor.

NRS 450 Advanced Medical-Surgical Nursing (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: NRS 415.
Co-requisites: NRS 450P.

Taught: Variable, check with department
 Concepts and theories needed to provide nursing care of people for prevention of and assistance with complex health problems.

NRS 450P Advanced Medical Surgical Practicum (2 credits)

Hours: 0 classroom + 4 lab/studio
Co-requisites: NRS 450.
Taught: Variable, check with department
 Utilization of theoretical concepts in holistic management of adult clients.

NRS 465P Transition to the Professional Practice Role (4 credits)

Hours: 0 classroom + 8 lab/studio
Prerequisites: NRS 415.
Co-requisites: NRS 450 and NRS 450P.
Taught: Variable, check with department
 Clinical practice for role of professional nurse in a supportive environment; opportunities to manage and prioritize care for groups of clients, increase clinical competence; delegate nursing care to other healthcare workers; discuss issues affecting healthcare/healthcare professionals.

NRS 470P Nursing Capstone 2 (1 credit)

Hours: 0 classroom + 2 lab/studio
Prerequisites: NRS 440P.
Co-requisites: NRS 450.

Taught: Variable, check with department
 Second of two capstone courses in which the student evaluates the outcomes from the implementation of their capstone project. In addition, the student will be required to communicate their scholarly work via a professional forum.

NRS 494 Special Topics: Bachelor of Science Nursing (1-4 credits)

Hours: 1-4 classroom + 1-4 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
 Various advanced topics in nursing.

NRS 499 Independent Study (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio
Prerequisites: admission to the BSN program and consent of the BSN Program Director.
Taught: Fall and spring
 Individual readings, research, and/or projects relating to professional nursing practice and developed by students in consultation with faculty prior to registration; written agreement to include purpose, objectives, instructional activities, time frame, and evaluation method. Not intended to substitute for any course offered on a regular basis. Applicable for upper division credit only.

Public Administration Courses (PAD)

PAD 300 Introduction to Public Administration (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: junior standing.
Taught: Fall and spring
 Governmental administration, primarily U.S.; development of the discipline and its methodology; organization, personnel, and budgeting problems; administrative control and accountability.

PAD 394 Special Topics in Public Administration (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department

PAD 401 Human Resource Management (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: junior standing.
Taught: Spring only
 Principles and problems of recruitment, examination procedures, rating, classification, and assignment to the job; philosophies of pay, promotion, employee motivation and discipline; formulating and administering public personnel

policies; concepts and principles in selecting governmental personnel systems; American national, state, and local personnel systems.

PAD 403 Public Policy (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
 Course introduces students to the policy making process by providing an introduction to public policy, providing an overview of the formation, implementation, quantitative and qualitative evaluation, and ethical aspects of policy making.

PAD 412 Administrative Law (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: junior standing.
Taught: Spring only
 Nature of the powers vested in administrative agencies; problems of administrative procedure; methods and extent of judicial control over administrative action.

PAD 420 Managing the Not-For-Profit Organization (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: junior standing.
Taught: Spring only
 Development and characteristics of the not-for-profit organization; managerial challenges; application of relevant theories to the not-for-profit organization; organization, staffing, planning, programming, evaluating, board-staff relations; managing volunteers.

PAD 455 Urban Administration (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: junior standing.
Taught: Variable, check with department
 Public management issues and approaches in the modern city; governmental policy making and organizational structure in an urban environment; managerial processes for selecting, motivating, leading, and evaluating public employees; resources management; productivity in service delivery.

PAD 494 Topics: Public Administration (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: junior standing.
Taught: Variable, check with department
 Topics vary from semester to semester. See Schedule of Classes for topic and prerequisites. May be repeated.

PAD 455 Urban Administration (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: junior standing.
Taught: Variable, check with department
 Public management issues and approaches in the modern city; governmental policy making and organizational structure in an urban environment; managerial processes for selecting, motivating, leading, and evaluating public

employees; resources management; productivity in service delivery.

PAD 496 Internship in Public Administration (1-15 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: Students must have the consent of Internship Coordinator.

Taught: Fall, spring, and summer

Students may enroll for real-world experiential credit with public or private hosts.

PAD 498 Public Service Practicum (1-6 credits)

Hours: 0 classroom + 1-6 lab/studio

Prerequisites: Consent of internship coordinator.

Taught: Variable, check with department

This course is an opportunity to apply classroom learning to a practical setting in a government, nonprofit or related organization in the Northern Kentucky/Greater Cincinnati region, the state capital of Frankfort, or another locale. Students may be involved with program implementation, policy making, budgeting and/or other public service activities.

PAD 499 Independent Study in Public Service (3 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: Consent of program coordinator.

Taught: Variable, check with department

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 511 Budgeting Techniques and Applications (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Advanced treatment of budgetary techniques and applications, such as program budgeting and zero-base budgeting; financial planning and revenue estimation techniques; tax and expenditure types; debt financing; financial reporting.

PAD 515 Cartography (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to MPA Program, or consent of MPA Director.

Taught: Variable, check with department

Introduction to principles and concepts of cartography; hands-on experience in cartographic map design using computer cartographic software through developing maps, charts, graphics, and design materials for presentation through digital mediums. Emphasizes understanding and implementation of the principles and theories and research into relevant topics.

PAD 519 Introduction to Remote Sensing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to MPA Program or consent of MPA Director.

Taught: Variable, check with department

Introduction to principles and concepts of remote sensing technologies; hands-on experience in manipulation of remote sensing techniques using remote sensing software. Emphasizes understanding and implementation of remote sensing theories and research into relevant topics.

PAD 520 Advanced Remote Sensing (4 credits)

Hours: 3 classroom + 1 lab/studio

Prerequisites: PAD 519.

Taught: Variable, check with department

Introduction to principles and concepts of digital remote sensing data processing technologies; hands-on experience in manipulation of digital remote sensing data processing techniques using remote sensing software. Emphasizes understanding and implementation of digital remote sensing data processing theories and research into relevant topics.

PAD 560 Planning and Community Development (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Statutory and structural framework for urban planning and development; technical, social, political, and economic elements in the governmental planning process; planning theories and regulatory techniques; growth management; urban redevelopment.

Physical Education Courses (PHE)

PHE 104 Badminton (1 credit)

Hours: 0 classroom + 2 lab/studio

Taught: Spring only

Development of skills, knowledge, strategies, and attitudes in the sport of badminton.

PHE 108 Aerobic Conditioning (1 credit)

Hours: 0 classroom + 2 lab/studio

Taught: Fall only

This is a physical activity course designed to prepare, motivate, and engage students in various low to medium impact aerobic exercises. Aerobic conditioning is structured to increase cardiovascular fitness through safe and specific body conditioning exercises.

PHE 109 Strength Training (1 credit)

Hours: 0 classroom + 2 lab/studio

Taught: Fall and spring

This is a physical activity course designed to introduce students to strength training as a lifelong activity. Proper techniques and training

principles will be taught using different types of resistance training.

PHE 110 Golf (1 credit)

Hours: 0 classroom + 2 lab/studio

Taught: Fall, spring, and summer

Development of skills, knowledge, strategies, and attitudes in specific golf activities.

PHE 111 Yoga (1 credit)

Hours: 0 classroom + 2 lab/studio

Taught: Fall and spring

This is a physical activity course designed to familiarize students with the basic postures and breathing techniques of Hatha yoga, including slow stretching and toning activities designed to help release stress while elongating muscles.

PHE 112 Snow Skiing - Snow Boarding (1 credit)

Hours: 0 classroom + 2 lab/studio

Taught: Spring only

This is a physical activity course designed to instruct students in the fundamentals of snow skiing and snow boarding. The class is conducted at a local snow skiing facility. Students are charged an additional fee that includes rental of ski equipment and use of facilities.

PHE 114 Karate (1 credit)

Hours: 0 classroom + 2 lab/studio

Taught: Fall and spring

Development of skills, knowledge, strategies, and attitudes in the sport of karate.

PHE 118 Swimming (1 credit)

Hours: 0 classroom + 2 lab/studio

Taught: Fall, spring, and summer

Development of skills, knowledge, strategies, and attitudes in specific swimming activities.

PHE 120 Tennis (1 credit)

Hours: 0 classroom + 2 lab/studio

Taught: Fall, spring, and summer

Development of skills, knowledge, strategies, and attitudes in specific tennis activities.

PHE 122 Volleyball (1 credit)

Hours: 0 classroom + 2 lab/studio

Taught: Fall and spring

Development of skills, knowledge, strategies, and attitudes in the sport of volleyball.

PHE 210 Intermediate Golf (1 credit)

Hours: 0 classroom + 2 lab/studio

Taught: Fall and spring

Refinement of skills, knowledge, strategies, and rules related to intermediate level performance of activities. For students already skilled at the Intermediate level in the activity.

PHE 214 Intermediate Karate (1 credit)*Hours: 0 classroom + 2 lab/studio**Taught: Fall and spring*

Refinement of skills, knowledge, strategies, and rules related to intermediate level performance of activities. For students already skilled at the Intermediate level in the activity.

PHE 218 Intermediate Swimming (1 credit)*Hours: 0 classroom + 2 lab/studio**Taught: Fall and spring*

Refinement of skills, knowledge, strategies, and rules related to intermediate level performance of activities. For students already skilled at the Intermediate level in the activity.

PHE 220 Intermediate Tennis (1 credit)*Hours: 0 classroom + 2 lab/studio**Taught: Variable, check with department*

Refinement of skills, knowledge, strategies, and rules related to intermediate level performance of activities. For students already skilled at the Intermediate level in the activity.

PHE 230 Motor Skill and Fitness Activities for Children (3 credits)*Hours: 1 classroom + 2 lab/studio**Taught: Spring only*

Development of skills, knowledge, and strategies in activities developmentally appropriate for elementary physical education programs; movement concepts, fundamental motor skills, body management, rhythmic activities and dance, game skills, and physical fitness concepts and development activities.

PHE 231 Dance and Rhythmic Activities (3 credits)*Hours: 1 classroom + 2 lab/studio**Taught: Fall only*

The focus of this course is to develop an appreciation for the value and benefits for the inclusion of dance and rhythmic activities in the P-12 physical education curriculum, and how to plan, demonstrate, teach, and assess a variety of appropriate dance forms in the elementary, middle grades, and high school physical education programs.

PHE 234 Team Sports (3 credits)*Hours: 1 classroom + 4 lab/studio**Taught: Fall only*

An introduction to the performance and application of skills, knowledge, strategies, tactics, and rules of a variety of team sports (basketball, volleyball, soccer, touch football, lacrosse, ultimate frisbee and strategies to teach these sports using the sport education and tactical game approaches in middle & high school physical education or community programs.

PHE 235 Individual and Dual Sports (3 credits)*Hours: 1 classroom + 4 lab/studio**Taught: Spring only*

An introduction to the knowledge, skills, rules, tactics, and strategies to successfully play a variety of sports (badminton, tennis, golf, frisbee golf, track & field, bowling, and adventure education activities) strategies to teach and coach these sports & activities in middle school and high school physical education programs, and community sports programs.

PHE 250 Physical Education for Elementary Teachers (2 credits)*Hours: 2 classroom + 0 lab/studio**Prerequisites: EDU 104.**Taught: Fall, spring, and summer*

Content and skills for developing, implementing, and evaluating physical education in the P-5 classroom.

PHE 299 Special Topics in Physical Education (1-3 credits)*Hours: 1-3 classroom + 0 lab/studio**Prerequisites: sophomore standing and/or consent of instructor.**Taught: Fall, spring, and summer*

Directed readings, independent research, or other areas of specific or individual academic interest. Not intended to substitute for any course offered on a regular basis. Written agreement between faculty and student must be submitted to department chair within first two weeks of semester; elements of agreement to include purpose, objective, instructional activities, time frame, and evaluation procedure.

PHE 310 Fitness Education for Children and Youth (3 credits)*Hours: 2 classroom + 1 lab/studio**Taught: Fall only*

An introduction to developmentally appropriate content, concepts, motivational strategies, teaching and assessment practices and strategies, and physical activities to be used to encourage children and adolescents to regularly participate in physical activity and to achieve and maintain a health level of fitness in school and community programs.

PHE 318 Lifeguarding (2 credits)*Hours: 1 classroom + 2 lab/studio**Prerequisites: swimming proficiency test given during first class meeting.**Taught: Spring only*

Knowledge and skills designed to save own life or life of another person in event of aquatic emergency; CPR (enhanced first aid instruction) for the professional rescuer. American Red Cross certification awarded to students meeting requirements.

PHE 319 Water Safety Instructor (3 credits)*Hours: 2 classroom + 2 lab/studio**Prerequisites: must pass American Red Cross Level 4 swimming skills test.**Taught: Fall and spring*

Knowledge, skills, and methodology necessary to teach swimming and water safety skills. American Red Cross Certification for water safety instructor, and first aid/CPR awarded to those students who meet requirements.

PHE 390 Practicum in Recreational Leadership (3 credits)*Hours: 0 classroom + 3 lab/studio**Prerequisites: Junior standing.**Taught: Fall, spring, and summer*

The focus of this course is to provide students with supervised practical experiences in which they will work in recreational programs on and off campus. Students will gain an understanding and experience how a recreation center functions and how programs are planned, organized, publicized, and implemented.

PHE 470 Teaching Methods for Physical Education (4 credits)*Hours: 2 classroom + 2 lab/studio**Prerequisites: EDU 311, KIN 200, KIN 330, PHE 230, PHE 231, PHE 234, PHE 235, PHE 310.**Co-requisites: PHE 491.**Taught: Spring only*

Development of Knowledge, teaching skills and strategies necessary for effective teaching in physical education P-12, and Kentucky Initial Teacher Standards.

PHE 490 Field Experiences in Elementary Physical Education (2 credits)*Hours: 0 classroom + 1 lab/studio**Prerequisites: PHE 470.**Taught: Fall only*

Field Experiences of supervised practice teaching in an elementary school setting.

PHE 491 Field Experiences in Middle School and Secondary Physical Education (1 credit)*Hours: 0 classroom + 1 lab/studio**Taught: Spring only*

Supervised practice teaching experience in a middle school and/or high school setting. Integrated with methods course.

PHE 492 Internship in Recreation Leader (12 credits)*Hours: 0 classroom + 12 lab/studio**Prerequisites: PHE 390.**Taught: Fall, spring, and summer*

The focus of this internship is for students to gain professional experience in a supervised recreational setting in the community to prepare for work in a professional setting. Students will work with the program supervisor to

determine the type of setting that will best prepare him/her for their professional goals.

PHE 494 Special Topics in Physical Education (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, winter, spring and summer

This is a special topics course of a current interest/issue in the field of physical education.

PHE 499 Special Topics in Physical Education (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Junior or senior standing.

Taught: Variable, check with department

Directed readings, independent research, or other areas of specific or individual academic interest. Not intended to substitute for any course offered on a regular basis. Written agreement between faculty and student must be submitted to department chair within first two weeks of semester; elements of agreement to include purpose, objective, instructional activities, time frame, and evaluation procedure.

PHE 500 Adapted Physical Education (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: KIN 330.

Taught: Fall only

Adaptation of physical education programs for temporarily or permanently handicapped persons.

PHE 599 Selected Problems in Physical Education (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Variable, check with department

Individual or group study of a topic of current interest in physical education. Topic selected by student with approval of instructor.

Philosophy Courses (PHI)

PHI 110 Philosophy, Individuals and Society - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

In Philosophy, Individuals and Society students explore a variety of philosophical views about the nature of individuals, social structures and the relationships between them. Students will critically examine different philosophical perspectives and theories that arise from questions about human nature, personal identity, free will and moral responsibility, the nature of mind, and the ethical, social and political dimensions of human existence.

General education credit: Individual and Society

PHI 110H Philosophy, Individuals and Society (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

In Philosophy, Individuals and Society students explore a variety of philosophical views about the nature of individuals, social structures and the relationships between them. Students will critically examine different philosophical perspectives and theories that arise from questions about human nature, personal identity, free will and moral responsibility, the nature of mind, and the ethical, social and political dimensions of human existence.

General education credit: Individual and Society

PHI 165 Introduction to Logic (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Methods and principles used to distinguish valid from invalid forms of argumentation in deductive and inductive reasoning; syllogisms, dilemmas, truth tables, and the scientific method.

PHI 181 Philosophers, Cultures and Creativity - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Exploration of significant philosophers, their methods of inquiry and philosophical texts and their impact on various cultures in terms of science, ethics, politics, art and theology as well as how these areas influenced and shaped philosophical thinking, other individuals and cultures as well.

General education credit: Culture and Creativity

PHI 200 Ethics - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

This course is a philosophical examination of pluralistic viewpoints on individual and social ethical responsibilities in the global world. The development of a rational approach to ethical inquiry; Alternative ethical systems may be evaluated along with a number of other ethical issues relating to social, political, legal, or religious matters.

General education credit: Global Viewpoints

PHI 210 Information Ethics (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Ethical issues faced by computing professionals including those related to computing in the workplace, security, crime, privacy, property rights, risk, liability, and the internet.

PHI 220 Health Care Ethics - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Ethical decision making and problems of contemporary health care in multicultural perspectives; abortion, euthanasia, population and behavior control; informed consent and counseling; professional codes and personal freedom; mental health and personal autonomy; justice and equality in health care; ethical conflicts in health service work; death and dying.

General education credit: Global Viewpoints

PHI 265 Logic - QR (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAHD 095 or MAHD 099 or placement.

Taught: Fall and spring

An introduction to the methods of formal deductive logic, with an examination of its relationship to areas such as mathematics, computer science, and legal reasoning. Students will learn the language and rules of formal logic, as well as techniques of formal proof.

General education credit: Mathematics

PHI 280 History of Classical and Medieval Philosophy (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Western philosophical tradition from the Greeks to the 15th century; birth of scientific explanations; the role of reason; impact of Christianity; influence of seminal thinkers such as Socrates, Plato, Aristotle, the Atomists, Augustine, and Aquinas on political, ethical, religious, and other ideas.

PHI 285 History of Modern and Contemporary Philosophy (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

Western philosophical tradition from the 15th to the 20th century; rise of rationalism, dualism, empiricism, idealism, skepticism, and utilitarianism, and the modern reactions to them, such as positivism, dialectical materialism, existentialism, and feminism; figures such as Bacon, Descartes, Hobbes, Leibniz, Spinoza, Hume, Mill, Kant, Hegel, and others.

PHI 302 Research Ethics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Ethical, legal, and public policy issues stemming from scientific research, including medical, psychological, and sociological; topics may include animal and human experimentation, informed consent, privacy, confidentiality, government regulations, freedom of inquiry and

ensorship, the moral responsibility of scientists, and research integrity.

PHI 304 Zen (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Spring only

The course offers foundational and developmental exposure to the fundamental and essential teachings of Zen from the stand point of both philosophy and religion as well as a non-sectarian practice in mindfulness training.

PHI 305 Existentialism (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Meaning, freedom, responsibility, communication, creativity, and value in the works of thinkers such as Kierkegaard, Nietzsche, Heidegger, Sartre, Camus, DeBeauvoir, and others; critique of traditional notions of mind versus body, reason, truth, self-identity, language, and time.

PHI 306 Philosophy and Science (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Philosophical issues in science; the nature of scientific explanation; science and pseudoscience; growth of scientific knowledge; Kuhn, Popper, Feyerabend, and others.

PHI 307 Business Ethics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Codes by which businesses and individuals in business act; problems that can develop concerning ethical issues; corporate personhood; corporate, employer, employee, and consumer rights and responsibilities.

PHI 309 Global Ethics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

This course is designed to introduce college students to a variety of approaches to building a more ethical world. We will see how ethicists from many cultures do ethics from their unique cultural perspective. These cultures will include: African, Islamic, Feminist, Buddhist, Native American, Chinese, and Indian Hindu. We will explore most of the following issues: Human Rights, Environmental Responsibility, Hunger and Poverty, War and Violence, Sexism, Racism, AIDS, Abortion, and Euthanasia.

PHI 311 Philosophy of Woman (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Ideas of and about women in the history of philosophy; perennial issues that have emerged from classical times to the present.

PHI 312 Eastern Philosophy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Fall only

Philosophical foundations of Buddhism, Taoism, Confucianism, and Hinduism, including perspectives on self, reality, community, language, truth, enlightenment, embodiment, reason, emotion, and art; contrast with western perspectives; meditation and applied meditative practices.

PHI 315 Knowledge and Reality (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Spring only

Differing views on the nature of knowledge and reality, e.g., analytic, idealist, realist, materialist, existentialist, mystical, intuitionist, and emotivist; relevance of these theories to one's personal philosophy of life and actions; nature of language, perception, intellection, time, matter, mind, God, freedom, truth, reason, emotion.

PHI 320 Social and Political Philosophy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Nature and purposes of the state, grounds of political obligation, freedom and its limitations, human rights, social justice, and selected contemporary issues.

PHI 323 Peace and War (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Philosophical study of main issues related to the ideas and realities of war and peace. Topics will include beliefs and theories about peace and war, the causes of violence and war, war and morality, alternatives to violence and war, peace ideas and proposals, applications to current world conditions.

PHI 324 Africana Philosophy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Examination of philosophical ideas in relation to people of African descent. Topics include Africana conceptions of reality, time and space; Africana epistemological and logical systems of reasoning; Africa morality. Contrast will be made with Western philosophy. Other topics may include Africana-centered social, political and cultural issues such as slavery, colonialism, racialism and Africana identity.

PHI 330 Philosophy and Law (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: sophomore standing.

Taught: Variable, check with department

Major philosophical issues in law; theories of the nature and purposes of law, legal enforcement of community standards, strict liability, human rights, civil disobedience, theories of punishment, and legal ethics.

PHI 335 Great Traditions in Ethics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

In-depth study of the major sources of western moral philosophy; representative selections from philosophers of classical times to the present (e.g., Plato, Aristotle, Augustine, Aquinas, Kant, Bentham, Mill, Marx, Dewey, and Sartre).

PHI 340 Neuroethics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Explores the relationship between neuroscience (and possibly other social and cognitive sciences) and the philosophical study of morality. Topics could include the implications of neuroscience for understanding moral judgment, moral emotions, free will and moral responsibility, the concept of a person, and moral character. Other topics might include ethical issues surrounding the practice and application of neuroscience in social, legal and clinical contexts.

PHI 345 Philosophy of Mind (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

This course is designed to examine issues and themes in contemporary philosophy of mind; the relationships among the mind, brain and world; problems concerning intentionality,

subjectivity, consciousness, qualia, mental representation, mental causation; and the intersection of psychology, cognitive science, neuroscience, and artificial intelligence with philosophy.

PHI 348 Darwin and Philosophy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

In this course we examine neo-Darwinian views on evolution and natural selection. We consider several attempts to use evolutionary principles to provide naturalistic explanations for important features of human existence, like the nature of thought, morality, freewill, creativity and the effects of culture.

PHI 350 Philosophy of Religion (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: sophomore standing or consent of instructor.

Taught: Variable, check with department

Issues in religious philosophy, including the relation between faith and reason, the nature of religious experience, arguments for the existence of God, the problem of evil, and immortality.

PHI 355 Socrates and Plato (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Study of two major formative persons in the development of Western thought and culture. Socrates' life, trial, death, thought, and significance. Plato on the good, justice, education, knowledge, and reality; the Platonic tradition.

PHI 357 Kant and Nineteenth-Century Philosophy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Study of the work of Immanuel Kant and some of the subsequent philosophical views he influenced, including possibly the contributions of Hegel, Marx, Kierkegaard and Nietzsche. Critical examination of ideas regarding knowledge, reality and value through careful readings of both primary and secondary texts.

PHI 360 Environmental Philosophy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

In-depth examination in environmental philosophy, including areas such as environmental feminism, animal rights, technology and human

nature, environmental justice, or religion and ecology.

PHI 375 Ethical Theory (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Fall only

An examination of traditional and contemporary normative theories, such as utilitarian ethics, virtue ethics, natural and moral rights theories, Kantian ethics, contractarian ethics and care ethics. The focus may also include metaethical analysis concerning the nature of morality, such as moral cognitivism and moral realism.

PHI 394 Topics: Philosophy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

In-depth examination of a major figure, issue, or school in philosophy. Topic will be announced in Schedule of Classes. May be repeated as topics vary.

PHI 396 Internship: Applied Philosophy (3 credits)

Hours: 2 classroom + 5 lab/studio

Prerequisites: 6 semester hours in philosophy and consent of instructor.

Taught: Variable, check with department

Supervised readings and research carried out in conjunction with practicum, internship, or job in student's primary area of interest; focus upon philosophical and ethical issues of the work experience.

PHI 494 Seminar: Philosophy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours in philosophy.

Taught: Variable, check with department

Examination of a selected problem or tradition in philosophy. Offered according to demand and interest of students at discretion of philosophy faculty. May be repeated when topics vary.

PHI 499 Independent Study in Philosophy (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: 6 semester hours in philosophy and consent of instructor.

Taught: Variable, check with department

Individually supervised readings and study of some philosophical work, problem, or tradition. May be repeated as topics vary, but no more than twice.

PHI 594 Topics: Philosophy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours in philosophy or consent of instructor.

Taught: Variable, check with department

In-depth examination of a selected topic in philosophy. May be repeated as topics vary.

PHI 599 Independent Study: Philosophy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of philosophy or consent of instructor.

Taught: Variable, check with department

Individually supervised readings and study of a selected study in philosophy. May be repeated as topics vary.

Physics Courses (PHY)

PHY 100 Science, Engineering, and Design (1 credit)

Hours: 1 classroom + 0 lab/studio

Taught: Fall only

Course designed for students who wish to pursue a course of study in a field of science or pre-engineering at NKU. Topics will include career information, career and college success skills, and an introduction to design.

PHY 101 Einstein 101 - NS (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MAHD 099 or placement.

Taught: Fall and spring

Introduction to concepts in modern physics by studying the work and life of Albert Einstein. Theories to be covered include special and general relativity, photoelectric effect, quantum mechanics, and Brownian motion. Assumes knowledge of elementary algebra and graphing techniques.

General education credit: Natural Science

PHY 110 Introduction to Physics with Laboratory - SL (4 credits)

Hours: 3 classroom + 2 lab/studio

Prerequisites: MAHD 099 or placement.

Taught: Fall, spring, and summer

Conceptual physics for nonscience majors. Using guided inquiry activities to teach basic principles and their applications. Topics chosen from among: nature of physics as a science, mechanics, wave motion, light, heat, electricity, and the atom. Assumes knowledge of elementary algebra.

General education credit: Natural Science

PHY 115 Physics of Music and Sound (4 credits)

Hours: 3 classroom + 1 lab/studio

Prerequisites: MAHD 099.

Taught: Variable, check with department

The course examines the physical principles involved in the description, generation, detec-

tion, 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 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Directed projects, readings, and discussion for students interested in physics as a major or a minor. Does not meet general education requirement in natural sciences.

PHY 161 Circuit Analysis (3 credits)

Hours: 2 classroom + 2 lab/studio

Prerequisites: MAHD 099 or ACT Math 22 or higher.

Taught: Fall and spring

Basic laws and theories, voltages, current, power, and resistance; resistive circuits in direct current circuits; analysis and applications. Mesh and node equations used in circuit analysis. Same as EGT 161.

PHY 211 General Physics with Laboratory I - SL (5 credits)

Hours: 4 classroom + 2 lab/studio

Prerequisites: MAT 119 or a minimal math ACT score of 25 or equivalent placement.

Taught: Fall and spring

Noncalculus introduction to classical physics using guided inquiry activities. Topics include kinematics, forces and Newton's Laws of Motion, circular motion, work and energy, momentum, rotational motion, static equilibrium, and fluids. Assumes knowledge of algebra and basic trigonometry.

General education credit: Natural Science

PHY 213 General Physics with Laboratory II (5 credits)

Hours: 4 classroom + 2 lab/studio

Prerequisites: PHY 211.

Taught: Fall and spring

Noncalculus introduction to classical physics using guided inquiry activities. Continuation of PHY 211. Topics include oscillations, waves and sound, electric forces and fields, DC circuits, magnetic forces and fields, AC circuits, geometrical optics, and physical optics.

PHY 220 University Physics with Laboratory I - SL (4 credits)

Hours: 3 classroom + 3 lab/studio

Prereq OR Co-req: MAT 129 or MAT 227 or math ACT of 25 or higher.

Taught: Fall and spring

Calculus-based introduction to classical physics using guided inquiry activities. Topics include techniques for data analysis, kinematics, forces and Newton's Laws of Motion, circular

motion, work and energy, momentum, rotational motion, static equilibrium.

General education credit: Natural Science

PHY 222 University Physics with Laboratory II (4 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: "C-" or better in PHY 220.

Prereq OR Co-req: MAT 229 or MAT 228.

Taught: Fall only

Calculus-based introduction to classical electromagnetic theory using guided inquiry activities. Topics include electric forces and fields, DC circuits, magnetic forces and fields, AC circuits.

PHY 224 University Physics with Laboratory III (4 credits)

Hours: 3 classroom + 3 lab/studio

Prerequisites: MAT 129 and "C-" or better in PHY 220.

Taught: Spring only

Calculus-based introduction to classical physics using guided inquiry activities. Topics include oscillations, waves, sound, geometrical optics, physical optics, fluids, and thermodynamics.

PHY 292 Research Experience in Physics (0 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: Consent of instructor and department chair.

Taught: Fall, spring, and summer

Original research work directed by one or more members of the physics faculty. May be taken more than once. Pass/fail grade only.

PHY 294 Topics: Physics (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: consent of department chair.

Taught: Variable, check with department

Special topics in physics. Repeatable for a maximum of 12 semester hours.

PHY 300 Intermediate Physics Laboratory (2 credits)

Hours: 0 classroom + 4 lab/studio

Co-requisites: PHY 361.

Taught: Fall only

A selection of experiments in classical and modern physics. Topics include but are not limited to properties of light, quantization of charge, and atomic structure.

PHY 301 Advanced Physics Laboratory (2 credits)

Hours: 0 classroom + 4 lab/studio

Prerequisites: PHY 300.

Taught: Spring only

A selection of advanced experiments in classical and modern physics. Topics are selected from thermodynamic properties of matter, nuclear structure, particle physics, and advanced optics.

PHY 305 Statics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MAT 228 or MAT 229, and "C-" or better in PHY 211 or PHY 220.

Taught: Fall only

Force on bodies at rest; vector algebra; force systems; equivalent force systems; distributed forces; internal forces; principles of equilibrium; application to trusses, frames, and beams; friction.

PHY 310 Dynamics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: "C-" or better in PHY 220.

Prereq OR Co-req: MAT 325.

Taught: Spring only

Particle dynamics in one, two, and three dimensions; applications of mathematics to mechanical systems; theory of small oscillations; rigid-body dynamics.

PHY 315 Introduction to Astrophysics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MAT 129 or MAT 227, and "C-" or better in PHY 213 or PHY 222.

Taught: Variable, check with department

Quantitative application of physical principles to subjects of astronomical interest, such as the interaction of radiation with matter, analysis of stellar atmospheres, origin and evolution of the elements, and cosmology. Same as AST 315.

PHY 320 Physical Optics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MAT 228 or MAT 229, and C- or better in PHY 224.

Taught: Variable, check with department

Nature of light; interference; diffraction; polarization.

PHY 330 Mathematical Physics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: "C-" or better in MAT 325.

Taught: Fall only

Fourier series; orthogonal expansions; eigenvalue problems; boundary value problems in ordinary and partial differential equations. Same as MAT 330.

PHY 360 Thermodynamics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: "C-" or better in PHY 224.

Prereq OR Co-req: MAT 329.

Taught: Spring only

The laws of thermodynamics applied to closed systems, open systems, power cycles, and refrigeration cycles; extensive use of tables and graphs of thermodynamic properties.

PHY 361 Modern Physics I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MAT 129 or MAT 227, and "C-" or better in PHY 213 or PHY 224.

Co-requisites: PHY 300.

Taught: Fall only

Introduction to concepts of modern physics; relativity, quantization of charge, black-body radiation, photoelectric effect, X-ray and Compton scattering, atomic models of Rutherford and Bohr, wave properties of matter, the Schrodinger equation, and atomic physics.

PHY 392 Directed Research: Physics (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: junior standing.

Taught: Variable, check with department

Supervised research in an area of physics currently under investigation by one or more members of the physics faculty. Repeatable for a maximum of 9 semester hours.

PHY 394 Topics: Physics (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

In-depth study of specialized topics in physics. Repeatable for a maximum of 9 semester hours when topic varies. Offered on demand.

PHY 396 Undergraduate Laboratory Assistant (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Physics GPA of at least 3.00, junior standing and consent of instructor.

Taught: Variable, check with department

Participation in planning, setting-up, teaching, conducting reviews, and testing for an undergraduate laboratory course. For students majoring in physics. Repeatable for a maximum of 6 semester hours. Not applicable to major or minor.

PHY 397 Special Projects: Physics (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Variable, check with department

Completion of an independent project involving either the development of an advanced laboratory experiment or the construction of a working prototype (or detailed conceptual design) of an operational device. Repeatable for a maximum of 6 semester hours.

PHY 399 Readings in Physics (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Variable, check with department

Current literature. Repeatable for a maximum of 6 semester hours.

PHY 410 Electromagnetic Theory (4 credits)

Hours: 4 classroom + 0 lab/studio

Prerequisites: MAT 329, MAT 325, and "C-" or better in PHY 222.

Taught: Variable, check with department

Development of Maxwell's equations; their application to electrostatics, magnetostatics, and electromagnetic radiation.

PHY 420 Modern Physics II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: "C-" or better in PHY 361.

Taught: Variable, check with department

Applications and advanced topics in modern physics; statistical physics, molecular structure and spectra, solid-state physics, nuclear physics, particle physics, and cosmology.

PHY 460 Quantum Mechanics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: MAT 325 and "C-" or better in PHY 361 or CHE 361.

Taught: Variable, check with department

Principles of quantum mechanics; operator methods and their application to the hydrogen atom, spin, and angular momentum. Other topics selected from quantum statistics, variational techniques and perturbation theory, WKB approximation, and many electron atoms. Same as CHE 560.

PHY 492 Undergraduate Research: Physics (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: 8 semester hours of 300-level physics courses or above.

Taught: Variable, check with department

Supervised research in an area of physics currently under investigation by one or more members of the physics faculty. Repeatable for a maximum of 9 semester hours.

PHY 494 Physics Seminar (1 credit)

Hours: 1 classroom + 0 lab/studio

Prerequisites: 20 semester hours of physics courses.

Taught: Spring only

Techniques to search and report on research articles in physics. A written report and an oral presentation are required.

Popular Culture Courses (POP)**POP 205 Introduction to Popular Culture - AH (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Major areas of popular culture studies; values and attitude expressed in and passed on by activities, objects and entertainment forms of popular culture.

General education credit: Culture and Creativity

POP 205H Honors Introduction to Popular Culture (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Major areas of popular culture studies; values and attitudes expressed in and passed on by activities, objects and entertainment forms of popular culture.

General education credit: Culture and Creativity

POP 250 International Popular Culture - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

In-depth study of international and/or global aspects of everyday life and popular culture: consumer culture, mass media, entertainment, migration, technology, etc. May focus on a country or a region.

General education credit: Culture and Creativity

POP 305 Black Popular Culture (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Historical and contemporary examination of Black popular culture in the United States. Influence on American popular culture in general. Relationship of race, ethnicity, gender, and class.

POP 345 Japanese Popular Culture (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: POP 205 or JPN 101 or consent of instructor.

Taught: Variable, check with department

Postwar Japanese society and culture; beliefs and values, gender roles, daily experience, popular and entertainment forms.

POP 369 Folklore and Pop Culture (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Communication course.

Taught: Fall and spring

Theoretical and academic context of folklore and popular culture, their symbiotic relationship and impact on each other, creativity in our mass mediated world.

POP 394 Topics: Popular Culture (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Varies according to topic.

Taught: Variable, check with department

Focused study of a specific and significant topic concerning popular culture. Topics vary from semester to semester. May be repeated once for credit.

POP 494 Topics: Popular Entertainment (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Communication course.
Taught: Fall and spring

Study of popular entertainment forms, leisure activities, and events in the U.S. and the world, past and present, such as television, concerts, sports, fandom, etc. Topics vary from semester to semester. May be repeated once if topics differ.

POP 495 Study Abroad (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Varies by topic.
Taught: Variable, check with department

Varies by topic. Course includes a classroom portion and a trip abroad.

POP 499 Independent Study (1-3 credits)

Hours: 0 classroom + 0 lab/studio
Taught: Variable, check with department
 Individually supervised work involving reading, research, and/or production in a specified area of interest. Topic selected before registration in conference with instructor.

Public Relations Courses (PRE)**PRE 350 Music and Entertainment Publicity (3 credits)**

Hours: 3 classroom + 0 lab/studio
Prerequisites: Junior Standing.
Taught: Variable, check with department
 Music & Entertainment Publicity is an introduction to the strategies, tactics, and tools that apply to promotional activities for musical artists and theatrical productions. Special emphasis will be placed on new and social media and on the cross-marketing efforts that connect artists with video games, retail outlets, and festivals.

PRE 375 Principles of Public Relations (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: JOU 110 or EMB 100, and JOU 220 or EMB 265, or consent of instructor.
Taught: Fall and spring

Philosophy and functions of public relations practices; campaign planning and public affairs activities; writing messages for and selection of news media.

PRE 376 Public Relations Writing (3 credits)

Hours: 3 classroom + 0 lab/studio
Prereq OR Co-req: PRE 375.
Taught: Fall and spring

Instruction and practice in various forms of writing for Public Relations, including press releases, annual reports, newsletters, and

other professional public relations writing for the media and the public.

PRE 377 Public Relations Case Studies and Campaigns (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PRE 375.
Taught: Fall and spring

Evaluation of public relations programs conducted by companies, nonprofit institutions, and government agencies; writing for special-interest and mass media in public relations.

PRE 385 Public Relations Research Methods (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PRE 375.
Taught: Fall and spring

This course includes qualitative and quantitative research designs as related to public relations research, specifically teaching skills such as communication audits, issue tracking, use of external research services, media and clipping analysis, evaluating and reporting program effectiveness and evaluating counselor and staff performance.

PRE 394 Topics in Public Relations (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department
 Focused study of a specific and significant topic from a public relations perspective. Topics vary from semester to semester and may be repeated once for credit.

PRE 396 Public Relations Internship (3 credits)

Hours: 0 classroom + 12 lab/studio
Prerequisites: PRE 376; written consent of supervising faculty member; junior or senior standing.
Taught: Fall, spring, and summer

Selected placement, for P.R. majors, in a public relations agency, department, or other employer of P.R. professionals. Assigned work in a business, non-profit, or government organization may include writing, production, or promotion. May not be repeated for credit.

PRE 400 Public Relations Planning and Account Management (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PRE 375.
Taught: Fall only

This course facilitates the study and practice of consultative client-practitioner relations in public relations contexts. Account management and its various time-tracking and billing methods are kept in the foreground and considered for their likely influence throughout the client-practitioner lifecycle. Topics include inter-organizational relations, supply chain architectures, planning and budgeting, proposal writing and presentation, and business ethics.

PRE 410 Electronic Public Relations (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PRE 376.
Taught: Fall only-even years

Provide knowledge and practice in preparing various forms of electronic media used for corporate, non-broadcast purposes. Students will develop, create and produce effective electronic programming for distribution within the corporate culture in this course.

PRE 495 Study Abroad (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio
Prerequisites: Varies by topic.
Taught: Variable, check with department

Varies by topic. Course includes a classroom portion and a trip abroad.

PRE 499 Independent Study in Public Relations (1-3 credits)

Hours: 0 classroom + 4-12 lab/studio
Prerequisites: junior standing; approved independent study proposal.
Taught: Variable, check with department

Individually supervised work involving reading, research, writing, and/or production in a specified area of interest of public relations. Topic and plan of study selected before registration in conference with professor. May be repeated for a maximum of 6 semester hours.

Political Science Courses (PSC)**PSC 100 American Politics - SB (3 credits)**

Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
 National government in the U.S.; decision making process, government structure, politics.
General education credit: Individual and Society

PSC 100H American Politics - SB (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: ACT score of 24 or greater.
Taught: Fall and spring

American Politics is a course that explores how national politics in the United States works. Many journalistic accounts of American politics emphasize unsupported opinions and questionable assumptions. In this class, we will examine American politics based not on these opinions and assumptions, but instead on testable theories and verifiable facts. This approach, while not as flashy as what you're likely to see on MSNBC or Fox News, will lead to a fuller and deeper understanding of the American political process.

General education credit: Individual and Society

PSC 101 State and Local Politics - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Policy making processes in U.S. state governments, Kentucky state and local governments. *General education credit: Individual and Society*

PSC 102 Comparative Politics - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Analysis of political systems using the comparative approach to political processes and behavior.

General education credit: Global Viewpoints

PSC 103 International Politics - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Fundamental factors governing international politics.

General education credit: Global Viewpoints

PSC 103H Honors International Politics (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Fundamental factors governing international politics.

General education credit: Global Viewpoints

PSC 110 Political Ideas (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Trends and ideas that have helped shape Western political heritage.

General education credit: Global Viewpoints

PSC 110H Political Ideas - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Trends and ideas that have helped shape Western political heritage.

General education credit: Global Viewpoints

PSC 215 Scope and Methods (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 semester hours of introductory political science courses.

Taught: Fall and spring

Philosophical foundations of political analysis; various methodologies and quantitative techniques; nature of the role of the political scientist.

PSC 301 American Political Institutions (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only

In this course, we will be examining the structure and function of the legislative, executive, and judicial branches of the United States government.

PSC 304 Introduction to the Law (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Variable, check with department

Various approaches to law, including philosophical, sociological, political, and historical; elements of legal reasoning; institutions, functions, and effects of law in American society.

PSC 305 The Judicial Process (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Variable, check with department

A systems approach to the behavior of actors in the federal judiciary.

PSC 307 Constitutional Law (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Fall and spring

Major constitutional issues studied through decisions of the Supreme Court.

PSC 308 Civil Liberties (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Fall and spring

Equal protection under the law; criminal due process, First Amendment freedoms studied through case methods.

PSC 310 Political Behavior (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Fall only

Voting, campaigns, and recruitment of political leadership; academic background for courses in campaign management, public opinion, or elections.

PSC 311 Political Parties and Interest Groups (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only-even yrs

Development and structure of US Parties, Electoral Systems and Interest Groups. Includ-

ing: Party nominations, conventions, funding, campaigns and interest group politics.

PSC 312 Modern Ideologies (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Fall only

Major political ideologies of the 20th and 21st centuries: liberal democratic capitalism, democratic socialism, fascism, and communism; role of propaganda and political socialization in dissemination of ideological values; relationships among ideology, nationalism, and revolution.

PSC 319 Public Opinion (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103, or PSC 110.

Taught: Spring only-odd yrs

The purpose of this class is to examine American Public Opinion and its role in American politics. Public opinion serves as a foundation of survey research and understanding of American political moods.

PSC 320 American Politics in Film (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Summer only

Role of films in shaping public agendas, enhancing awareness of public issues; effect of films on public understanding of political processes and problems; examination of accuracy and bias of political messages in films.

PSC 322 International Politics in Film (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Summer only

Role of films in examining global relations, enhancing awareness of global issues; effect of films on public understanding of political processes and problems; examination of accuracy and bias of political messages in films.

PSC 330 Politics of Europe (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only-odd yrs

Organization and functioning of modern European political systems, especially Great Britain, France, Germany, and Italy.

PSC 340 Politics of Development (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Fall only-even years

This course explores the political, economic, and social challenges of Third World development. It covers a wide range of contemporary issues affecting developing countries, and focuses especially on aid and development policies aimed at reducing poverty and underdevelopment. In a world where 840 million people are malnourished, where nearly 1.3 billion people live on less than a dollar per day, and where dozens of countries constitute "failed states," the development challenges faced by Third World areas are unquestionably one of the most important public policy concerns of our time.

PSC 335 Politics of Latin America (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Fall only-even years

Comparative analysis of selected republics, especially Argentina, Brazil, Chile, Peru, and Venezuela.

PSC 350 Using Civilization to Understand IR (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Introductory-level PSC course.

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Summer only

Using the computer simulation Sid Meyer's Civilization to understand international relations issues, including factors that affect decision making; levels of analysis from which decisions are made; implications of diplomatic choices and policy making.

PSC 366 Politics of Africa (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only-even yrs

A comprehensive Introduction to the theory, practice and reality of Government and Politics in Africa. The major intent is to help the student to better grasp and comprehend the structure, function and nature of government and politics in Africa from colonialism to the present, as well as the policies resulting and their impact on the African polity and the greater international community.

PSC 370 Ancient Political Theory (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only-even yrs

Nature of political life; basic questions examined through close reading of original works of early Greek and Christian thinkers.

PSC 372 Modern Political Theory (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only

Renaissance through Industrialization, considering thought on power, natural rights, the social contract, liberal democracy, utilitarianism, communism, and arguably the roots of feminism.

PSC 373 Contemporary Political Theory (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Introductory-level PSC course.

Taught: Fall only

This course emphasizes the changes in political theory in the 20th century, following Nietzsche's criticism of the Enlightenment. The course focuses on the transformation of Enlightenment themes like power, modernity, gender, labor, and class.

PSC 375 Perspectives on Law (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Variable, check with department

This course is an introduction to contemporary theories of the law and legality. The course deals with the concept of law or legal authority. The course contains three areas: the notion of jurisprudence; the broader implications of how claims to authority are made good through legality; and obligation to the law.

PSC 380 Politics of the Middle East (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Fall only-odd years

Context in which Middle Eastern politics evolved; organization and functioning of modern Middle Eastern political systems; factors affecting ideological and political trends in the region.

PSC 388 Politics of Asia (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Fall only-even years

Examines the politics, governments, economy, security issues, and history of Asia; particular focus on East Asia's rapid growth.

PSC 394 Topics: Politics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Variable, check with department

Topics vary from semester to semester. See Schedule of Classes for topic and prerequisites. May be repeated.

PSC 403 Politics in Action (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Fall only

Examination of the political forces that drive policy formulation. Critical analysis of the passage, implementation, and effectiveness of major national legislation and programs.

PSC 405 Politics of Money (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only-odd yrs

How and why the federal government creates, collects and spends money. Critical analysis of the passage, implementation, and effectiveness of major national economic legislation and programs.

PSC 410 International Political Economy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103, PSC 110 or ECO 200.

Taught: Spring only

Interaction between politics and economics at the domestic and international levels; process leading to national and international distribution of wealth and economic development.

PSC 415 United States Foreign Policy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Fall only-even years

The historical setting, foreign policy process models, institutions and actors that influence United States foreign policy, emerging and enduring issues addressed by states.

PSC 425 Sex in Global Society (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103, PSC 110 or any WGS course.

Taught: Fall only-even years

Dynamics, institutions, actors, and policies that shape gender stereotypes, identity, and movements across cultures and regions of the world, serving to subordinate women. Topics include sexuality, economic issues, political and legal systems, globalization factors, and religion.

PSC 430 Politics and the Media (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only-even yrs

Impact of media on political process in the United States; structure and ownership of mass media; mass media and political behavior; role of the media in campaigns, elections and policy making.

PSC 440 Politics of Food (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Fall only-odd years

The political implications of the food we eat and how the choices we make can both define and dictate political policies.

PSC 465 Democratization (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103, or PSC 110.

Taught: Fall only

This class provide students with a general understanding of democratic regimes and their development over time and space.

PSC 470 Globalization (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Fall only

Understanding the interdependent nature of relations in the world by examining the dynamic transnational forces of culture, ideology, identity, geography, history, religion, social relations, and economics.

PSC 480 International Law (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Fall only

Development of international law; enforcement of international law; impact of international law on conduct of international relations among nation states.

PSC 481 International Organization (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Spring only-odd yrs

Development of international organizations; recent international organizations; role of United Nations in peacekeeping and international socioeconomic and cultural development.

PSC 482 Comparative Electoral Systems (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103, or PSC 110.

Taught: Spring only-even yrs

This class will focus on three distinctly different aspects of electoral systems and provide comparative context: democratization, system selection and effectiveness.

PSC 485 Comparative Foreign Policies (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSC 100, PSC 101, PSC 102, PSC 103 or PSC 110.

Taught: Fall only-odd years

Comparative analysis of foreign policies of selected states; decision-making and factors affecting foreign policy.

PSC 486 Conflict and Security (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 3 semester hours of introductory political science courses.

Taught: Spring only

This course is an investigation into the causes and correlates of conflict in our time, and how fighting these conflicts has changed over time. The course begins just prior to the year 1648, with the advent of the modern nation-state system, and unfolds to the present days of the "New World disorder," with the occurrence of acts of political terrorism upon American soil.

PSC 496 Internship in Political Science (1-15 credits)

Hours: 0 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Students may enroll for real-world experiential credit with public or private hosts. Students must have the consent of Internship Coordinator.

PSC 499 Readings and Practica for Seniors (1-3 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: consent of program director.

Taught: Fall, spring, and summer

Specialized reading or primary research interests completed through independent study at

the direction of a specific instructor. May be repeated as projects vary.

Psychology Courses (PSY)

PSY 100 Introduction to Psychology - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Systematic and scientific study of behavior from biological, behavioral, and cognitive perspectives; methods, history, biopsychology, perception, learning, development, cognition, personality, mental disorders, therapy, and social psychology.

General education credit: Individual and Society

PSY 100H Honors Introduction to Psychology - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Minimum ACT composite of 24 or consent of instructor.

Taught: Fall only

Scientific study of behavior and mental processes in a seminar setting; perspectives and topics covered in PSY 100; critical thinking and research methodology; independent work and active participation required.

General education credit: Individual and Society

PSY 200 Psychology of Personal Adjustment (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100.

Taught: Fall, spring, and summer

Personal growth and development including personal health; stress management; values clarification; moral dilemmas; interpersonal relations; social problems; career development.

PSY 201 Cross-Cultural Psychology (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Cultural differences and similarities to understand individual development, relationships, and policies concerning issues in psychology (e.g., race, gender, class, health, language, etc.).

PSY 210 Research Methods in Psychology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100 and STA 205.

Co-requisites: PSY 210L and PSY 210R.

Taught: Fall and spring

Experimental and other research methods in psychological research. A laboratory experience is included.

PSY 210L Research Tools in Psychology (2 credits)

Hours: 3 classroom + 0 lab/studio
Co-requisites: PSY 210 and PSY 210R.
Taught: Fall and spring

Skills needed to support PSY 210: use of computers and other tools in all phases of psychological research: information gathering, analysis, and communication; techniques of library searching, elements of writing in APA style, collecting and analyzing data.

PSY 210R Career Planning for Psychology Majors (1 credit)

Hours: 1 classroom + 0 lab/studio
Co-requisites: PSY 210 and PSY 210L.
Taught: Fall and spring

Assessment of individual values, interests, and abilities; investigation of psychology-related vocations; planning and decision-making skills regarding future careers.

PSY 300 Personality Psychology (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall and spring

Overview of research findings in personality psychology; emphasis on empirically supported conclusions regarding personality.

PSY 301 Evolutionary Psychology (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Variable, check with department

Human nature from the perspective of biological evolution; natural history of species; altruism and cooperation; aggression, warfare, deception and prejudice; morality; mating strategies; cognition, perception, and learning.

PSY 302 The Human Side of Work (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall only

Psychology of work behavior; interpersonal relations and organizational effectiveness; communication, morale, stress, leadership styles, values, ethics, problem solving techniques, and cross cultural aspects of the work experience. The approach to learning is experiential and may include some field assignments.

PSY 304 Consumer Psychology (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall and spring

Psychological methods and concepts used to understand, explain, and predict the dynamics underlying, influencing, and determining consumer behavior; research methodology, indi-

vidual and group influences, product attributes, promotional techniques, and consumer decision making.

PSY 305 Psychological Testing & Measurement (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100 and STA 205 or equivalent, PSY 210 and PSY 210L or equivalent.
Taught: Fall and spring

Basic principles, applications, and issues as related to psychological testing and assessment; review and evaluation of widely used tests in major areas of application: intelligence, personality, achievement, aptitude, and vocational.

PSY 309 Psychology of Perception (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Variable, check with department

Current theories and research in understanding visual perception of color, movement, and illusions; perception in other sensory modalities.

PSY 309L Psychology of Perception Laboratory (2 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 210 or equivalent.
Prereq OR Co-req: PSY 309 or equivalent.
Taught: Variable, check with department
 Laboratory to accompany PSY 309.

PSY 311 Biopsychology (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall and spring

Basic assumptions, theories, and empirical data relating neurobiological mechanisms and psychological processes of behavior; structural functional relationship of parts of the nervous system and their role in behavior.

PSY 311L Biopsychology Laboratory (2 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 210 or equivalent and consent of instructor.
Prereq OR Co-req: PSY 311 or equivalent.
Taught: Fall and spring
 Laboratory to accompany PSY 311.

PSY 315 Psychology of Human Sexuality (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall and spring

A survey in human sexuality focusing on biological, psychological, behavioral, and developmental issues. Sexual attitudes, values, and gender issues also addressed. Explicit content.

PSY 321 Lifespan Development (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall and spring

Psychological theory and research on developmental and individual differences across the lifespan in physical, cognitive, personality, and social domains; biological, psychosocial, cultural, and contextual influences on development are also examined. Students with credit for PSY 220, PSY 319, and/or PSY 320 cannot receive credit for PSY 321.

PSY 321L Developmental Science Laboratory (2 credits)

Hours: 1 classroom + 2 lab/studio
Prerequisites: PSY 210 or equivalent.
Prereq OR Co-req: PSY 321 or equivalent.
Taught: Variable, check with department
 Laboratory to accompany PSY 321.

PSY 330 Behavior Modification (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall only

Introduction to applied behavior analysis; the use of operant and classical conditioning to analyze and change behavior.

PSY 333 Abnormal Psychology (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall and spring

Symptoms, causes, and treatment of major mental disorders; research methods in psychopathology.

PSY 337 Animal Learning (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall and spring

Behavioral methodology, theory, and empirical basis of the scientific study of learning; classical and instrumental conditioning, discrimination and generalization, and the role of reward, punishment, and other motivational variables.

PSY 338 Cognitive Processes (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 100.
Taught: Fall and spring

Cognitive methodology, theory, and empirical basis of the scientific study of human memory and information processing; thinking; problem solving; concept formation.

PSY 338L Cognitive Processes Laboratory (2 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: PSY 210 or equivalent.
Prereq OR Co-req: PSY 338 or equivalent.
Taught: Fall only
 Laboratory to accompany PSY 338.

PSY 340 Social Psychology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100.

Taught: Fall and spring

Social perception and social influences on behavior; attribution, attitudes, attraction, aggression, pro-social behavior, compliance, and small groups.

PSY 340L Social Psychology Laboratory (2 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 210 or equivalent.

Prereq OR Co-req: PSY 340 or equivalent.

Taught: Fall and spring

Laboratory to accompany PSY 340.

PSY 344 Industrial/Organizational Psychology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100.

Taught: Fall and spring

Psychological principles in business and industry; motivation, job satisfaction, leadership and communication theory, organizational structure, performance appraisal, personnel testing and selection, training, workplace design, and work environment.

PSY 345 Human Factors Psychology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100.

Taught: Variable, check with department

Humans in the design of manmade objects, facilities, and environments: the human as a system component, human capabilities and limitations, controls and displays, design of aerospace and surface vehicles, and designing for the handicapped.

PSY 350 Training Group Theory and Laboratory Method (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100.

Taught: Variable, check with department

Small groups and development of interpersonal effectiveness; individual and group roles; resolution of conflicts; interpersonal trust; helping relationships. Graded pass/fail.

PSY 360 Psychopharmacology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100.

Taught: Spring only

Detailed analysis of how psychotherapeutic and recreational drugs affect the brain and behavior. Introduction to central nervous system structure and function, the biological basis of drug action in the brain, and the behavioral, clinical, and side-effect profiles of psychoactive drugs.

PSY 370 Humanistic Psychology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100.

Taught: Variable, check with department

Humanistic psychology in historical context; Greek, Renaissance, and modern developments; comparison with psychoanalysis and behaviorism; major theories of Allport, Fromm, Maslow, Jung, Rogers, Frankl, and Perls; central themes; experience, identity, meaning, freedom, responsibility, and growth in psychology.

PSY 405 Counseling Psychology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100 and junior standing.

Taught: Variable, check with department

Techniques of counseling; skills necessary in therapeutic interviewing; selection, application, and evaluation of appropriate goals, strategies, and tactics of counseling.

PSY 465 Health Psychology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100 and junior standing.

Taught: Fall and spring

Guided readings, discussions, and evaluations of scientific literature on health and health related behaviors; understanding psychological, social, and biological determinants of health; multi-disciplinary focus.

PSY 465L Health Psychology Laboratory (2 credits)

Hours: 1 classroom + 2 lab/studio

Prerequisites: PSY 210 or equivalent.

Prereq OR Co-req: PSY 465 or equivalent.

Taught: Variable, check with department

Laboratory to accompany PSY 465.

PSY 492 Research: Psychology (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: consent of instructor and psychology chair prior to registration.

Taught: Fall and spring

Individually supervised research in an area of faculty expertise; readings, design, data collection, analyses, report writing or presentation of findings. Specific activities assigned by instructor. Up to 3 semester hours may be earned per semester; no more than 6 semester hours of PSY 492 and/or PSY 499 may be applied toward certification of the major.

PSY 494 Topics: Psychology (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: PSY 100 and consent of instructor.

Taught: Fall and spring

Seminar course; topic listed in Schedule of Classes each semester.

PSY 495 Study Abroad in Psychology (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

Study abroad course; topic listed in Schedule of Classes when course is offered. May be repeated for credit when topics vary.

PSY 496 Applied Experience in Psychology (1-3 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: PSY 100, junior standing, and consent of instructor.

Taught: Fall, spring, and summer

Supervised practical experience within the field of psychology and psychology-related areas. Students observe and shadow working professionals and apply classroom knowledge to practical work settings and environments. Up to 3 semester hours may be earned per semester; no more than 6 semester hours of PSY 496 may be applied toward certification of the major.

PSY 497 Honors Project in Psychology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to Honors in Psychology program.

Taught: Variable, check with department

Supervised development, implementation, analysis, and reporting of an empirical study. May be repeated once for credit.

PSY 499 Independent Study in Psychology (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: consent of instructor and psychology chair prior to registration.

Taught: Variable, check with department

Individually supervised areas of study; archival research, experiments, surveys, and/or applied projects. Specific activity is student initiated and in consultation with instructor. Up to 3 semester hours may be earned per semester; no more than 6 semester hours of PSY 492 and/or PSY 499 may be applied toward certification of the major.

PSY 501 I-O Discussion Forum (2 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to MSIO psychology program or consent of MSIO psychology director.

Taught: Fall only

Introduction to I-O program, development of community and support; survey of I-O psychology; discussion of historical, ethical, legal and current newsworthy issues; clarification and elaboration of program requirements, intentions and philosophy.

PSY 550 Organizational Psychology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to MSIO psychology program or consent of MSIO psychology director.

Taught: Fall only

Introductory graduate level study in organizational psychology; commitment, involvement, satisfaction, motivation, leadership, power, quality of worklife, and groups/teams.

PSY 570 Work Environments (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to MSIO psychology program or consent of MSIO psychology director.

Taught: Spring only

Introduction to human factors psychology; ergonomics; occupational health and safety; physical and psychological factors influencing the workplace.

PSY 580 Cognition in the Workplace (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to MSIO psychology program or consent of MSIO psychology director.

Taught: Spring only

Judgment and decision-making, heuristics, biases, persuasion, prejudice, diversity, values, and attitude measurement.

PSY 594 Topics: Psychology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to MSIO psychology program or consent of MSIO psychology director.

Taught: Variable, check with department

Advanced seminar course; topic listed in Schedule of Classes each semester. Intended for graduate students and advanced undergraduates.

PSY 595 Topics: Study Abroad in Psychology (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Variable, check with department

Study abroad course; topic listed in Schedule of Classes when course is offered. May be repeated for credit when topics vary.

Radiologic Technology Courses (RAD)**RAD 101 Introduction to Allied Health (1 credit)**

Hours: 1 classroom + 0 lab/studio

Taught: Spring only

Introduction to the professions of respiratory care and radiologic technology, including basic job responsibilities/scope of practice, medical terminology, and patient assessment. More

specific information regarding the respiratory care and radiography programs will be presented. Same as RSP101

RAD 200 Introduction to Radiography (6 credits)

Hours: 5 classroom + 1 lab/studio

Prerequisites: admission to radiologic technology program.

Taught: Summer only

Introduction to program and profession; fundamental radiography principles and procedures; radiography of the chest and abdomen; foundation for all core radiography courses; orientation to clinical policies and procedures; observation of radiographic examinations under direct supervision by registered technologists at clinical sites.

RAD 202 Medical Terminology for Health Professions (1 credit)

Hours: 1 classroom + 0 lab/studio

Co-requisites: RAD 208 or RSP 201.

Taught: Fall only

Independent learning of word parts, including prefixes, suffixes, and roots, and the combination of these parts to form complex symptomatic, diagnostic, operative, and therapeutic medical terms related to the language of allied health professions; approved medical abbreviations will also be included.

RAD 208 Radiographic Procedures I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in RAD 200.

Co-requisites: RAD 208L.

Taught: Fall only

Radiographic anatomy, positioning, and image analysis of the appendicular skeleton, shoulder and pelvic girdles, lumbar spine, sacrum and coccyx.

RAD 208L Radiographic Positioning Laboratory I (1 credit)

Hours: 0 classroom + 2 lab/studio

Co-requisites: RAD 208.

Taught: Fall only

Radiographic positioning of the appendicular skeleton, shoulder and pelvic girdles, lumbar spine, sacrum and coccyx using simulation and phantoms; supervised practice and image critique. Pass/fail only.

RAD 209 Radiographic Procedures II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: RAD 208.

Co-requisites: RAD 209L.

Taught: Spring only

Continuation of RAD 208. Introduction to contrast studies; radiographic anatomy, positioning, and image analysis of the gastrointestinal, biliary and urinary systems, bony thorax, and cranium.

RAD 209L Radiographic Positioning Laboratory II (1 credit)

Hours: 0 classroom + 2 lab/studio

Co-requisites: RAD 209.

Taught: Spring only

Radiographic positioning of the gastrointestinal, biliary, and urinary systems, bony thorax, and cranium using simulation and phantoms; supervised practice and film critique. Pass/fail only.

RAD 214 Analysis of Radiographic Quality (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in RAD 200.

Co-requisites: RAD 214L.

Taught: Fall only

Principles of radiographic exposure variables and processing; analysis of the radiographic image; problem-solving approach to practical application of principles.

RAD 214L Analysis Radiographic Quality Laboratory (1 credit)

Hours: 0 classroom + 2 lab/studio

Prerequisites: C or better in RAD 200.

Co-requisites: RAD 214.

Taught: Fall only

Laboratory demonstration and experimentation coordinated with principles taught in RAD 214.

RAD 216 Physical Principles of Radiographic Equipment (4 credits)

Hours: 4 classroom + 0 lab/studio

Prerequisites: C or better in RAD 214.

Taught: Spring only

Principles of electromagnetism and the relationship to radiographic circuitry and equipment; construction and design of radiographic, fluoroscopic, mammographic, tomographic, and digital equipment.

RAD 230 Professional Communication in Health Science (2 credits)

Hours: 2 classroom + 0 lab/studio

Prerequisites: C or better in RAD 200.

Taught: Spring only

This course offers an introduction to methods of professional communication relative to health care delivery topics will include professionalism, ethical and legal issues, charting, health informatics, the team concept in health care, and culture and diversity as they relate to communication in health care.

RAD 286 Radiographic Practicum I (3 credits)

Hours: 1 classroom + 16 lab/studio

Prerequisites: RAD 200.

Taught: Fall only

Clinical application of principles of radiographic positioning, technique, and radiation protection; competency in chest, abdominal, appendicular skeleton, lumbar spine, shoulder, and

pelvic girdle radiography. Conducted under supervision of registered radiographers and clinical faculty.

RAD 296 Radiographic Practicum II (3 credits)

Hours: 1 classroom + 16 lab/studio
Prerequisites: C or better in RAD 286.
Taught: Spring only

Clinical application of principles of radiation protection and of radiographic positioning and technique; competency in portable radiography and in radiography of the cranium and G-U and G-I systems. Conducted under supervision of registered radiographers and Clinical faculty.

RAD 299 Independent Study in Radiology (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio
Taught: Variable, check with department

Individual readings, research, and/or clinical based coursework developed by the student in consultation with the instructor and approved by the radiologic technology program director prior to registration.

RAD 303 Radiographic Procedures III (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in RAD 209.
Taught: Fall only

Pediatric, geriatric, trauma, and surgical radiography; mammography; introduction to specialized non-vascular and vascular radiographic procedures and equipment; lecture/discussion and guest speakers.

RAD 310 Sectional Anatomy (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in RAD 334 or consent of instructor.

Taught: Variable, check with department
 Cross-sectional human anatomy of the head, neck, thorax, abdomen, pelvis, spine, and extremities, as demonstrated on CT and MR images.

RAD 334 Specialized Medical Imaging (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in RAD 303.
Taught: Spring only

Introduction to specialized imaging and therapeutic modalities, including CT scanning, digital imaging, MRI, medical sonography, bone densitometry, nuclear medicine, and radiation therapy; sectional anatomy and related procedures and equipment.

RAD 340 Radiation Biology and Protection (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in RAD 216.
Taught: Fall only

Biological effects of ionizing radiation; radiation safety requirements and procedures; laboratory demonstration/experimentation.

RAD 350 Clinical Pathology for Radiographers (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in RAD 303 and BIO 209.

Taught: Spring only
 Anatomy, pathology, and mechanisms of disease with its radiological manifestation in radiographic studies; case studies; radiology presentations.

RAD 360 Quality Assurance (2 credits)

Hours: 1 classroom + 2 lab/studio
Prerequisites: C or better in RAD 216.
Taught: Spring only

Clinical and administrative aspects of quality assurance to include: elements of QA; risk management; data collection and reporting; involvement of appropriate personnel; financial implications of QA; quality control of diverse radiology equipment; accreditation standards.

RAD 376 Radiographic Practicum III (2 credits)

Hours: 0 classroom + 16 lab/studio
Prerequisites: C or better in RAD 296.
Taught: Summer only

Clinical application of principles of radiation protection and of radiographic positioning and technique; competency in radiography of the skeletal and digestive systems. Five-week internship that includes a one-week evening assignment; conducted under supervision of registered radiographers and clinical faculty.

RAD 380 Radiography Capstone (1 credit)

Hours: 1 classroom + 0 lab/studio
Prerequisites: C or better in RAD 340.
Taught: Spring only

Comprehensive review and assessment of essential concepts in radiography; preparation for the ARRT examination.

RAD 386 Radiographic Practicum IV (3 credits)

Hours: 1 classroom + 16 lab/studio
Prerequisites: C or better in RAD 376.
Taught: Fall only

Clinical application of principles of radiographic positioning, technique, and radiation protection; competency in surgical and non-routine radiography and continued competency in routine skeletal and contrast studies. Conducted under supervision of registered radiographers and clinical faculty.

RAD 396 Radiographic Practicum V (3 credits)

Hours: 0 classroom + 24 lab/studio
Prerequisites: C or better in RAD 386.
Taught: Spring only

Clinical application of principles of radiographic positioning, technique, and radiation protection; introduction to advanced medical imaging modalities; continued competency development in non-routine radiography. Conducted under supervision of registered radiographers and clinical faculty.

RAD 450 Advanced Imaging Pathology (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department

Anatomy, pathology, and mechanisms of disease with its radiological manifestation in nuclear medicine, CT, MRI, cardiac and vascular imaging, ultrasound, doppler, and mammography studies; case studies; radiology presentations.

RAD 470 Principles of Advanced Tomography (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in RAD 396.

Taught: Variable, check with department
 In-depth study of theory, principles, and applications of magnetic resonance imaging, computed tomography, or vascular imaging. Offered according to demand and interest of students or a maximum of 9 semester hours.

RAD 494 Topics: Radiology (3 credits)

Hours: 3-6 classroom + 0 lab/studio
Taught: Variable, check with department

RAD 496 Practicum: Advanced Imaging (3-6 credits)

Hours: 0 classroom + 24 lab/studio
Prerequisites: C or better in RAD 396.

Taught: Variable, check with department
 Clinical application of principles of CT, MRI, or special procedures; content includes procedures, equipment, image production and/or scanning techniques. Conducted under supervision of registered technologists and clinical faculty. May be repeated for a maximum of 9 semester hours.

RAD 499 Special Topics Radiology (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Variable, check with department

Intensive study of a special topic or issue in radiologic technology through independent study. May be repeated for credit.

Reading Workshop Courses (RDG)

RDG 091 Reading Workshop (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Practice and instruction in reading and reading appreciation; literate behaviors; book selection; reading strategies, processes, comprehension; critical and creative response to materials read. Not applicable toward graduation. For students needing additional preparation for ENG 101.

RDG 110 Critical Reading (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Development of critical reading strategies including analysis, synthesis, and evaluation; cultural literacy; contemporary issues in the natural sciences, social sciences, and humanities. Provides preparation for general education courses in a variety of disciplines.

Religious Studies Courses (REL)

REL 200 World Religions and Cultures - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

This course is to introduce students to one or more of the following religions: Indigenous Sacred Ways, Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, Judaism, Christianity, Islam. The historical development of the religions studies, the major beliefs and the interactions within and between cultures will be considered.

General education credit: Culture and Creativity

REL 301 Ancient Religions (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

A comparative journey through religious ideas and practices in lands around the Mediterranean from pre-history to the Fall of Rome will include recognition of the transmission of many aspects of culture from east to west.

REL 302 Survey of the Hebrew Bible (Old Testament) (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Major figures, main themes, basic values, and primary beliefs found in the Hebrew Bible in its religious, philosophical, political and historical contexts.

REL 303 Survey of New Testament (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Major figures, main themes, basic values and primary beliefs of New Testament writings in their religious, philosophical, political and historical contexts.

REL 305 Islam (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

This course is both historical and topical in its treatment of Islam. Our first emphasis will be on the life and career of Prophet Muhammad, the teachings of the Qur'an, the development of the Muslim community and its principal institutions to about 1300 CE. Topically we will cover the Qur'an, the basic beliefs and practices of Islam, and Sufism (Islamic mysticism). We will also consider the current situation in the Islamic world and the Islamic community.

REL 306 Introduction to Judaism (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Introduction to the history of Judaism, major beliefs, branches, ceremonies and rituals central to contemporary Jewish life. This course is sponsored by the Jewish Chautauqua Society.

REL 307 Survey of Christianity (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Main beliefs, figures, orientations and branches of the Christian tradition; contemporary movements and issues.

REL 320 Religion in America (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Spring only-even yrs

Reading and discussion of writings of representative contemporary theologians and writers; development of awareness of basic issues and patterns in recent theological thinking.

REL 330 Contemporary Religious Thought (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Spring only-even yrs

Reading and discussion of writings of representative contemporary theologians and writ-

ers; development of awareness of basic issues and patterns in recent theological thinking.

REL 350 World Religions and Ethics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Comparative study of the ethical dimension of the world religions: moral ideals, models of virtue, codes of ethics, views on topics such as the relation between the sexes, race, work, home, human rights, political responsibility and war; focus mainly upon Hinduism, Buddhism, Islam, Judaism and Christianity.

REL 360 Human Religious Experience (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

Various facets of the experiential dimension of religion (e.g., the religious life, the communication of religious experience, religious autobiography, theories of the nature and function of religious experience and mysticism).

REL 370 Religion and Science (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: sophomore standing.

Taught: Fall only-even years

Various approaches to the relationship between religion and science; historical conflict; the developing dialogue between religion and science; cosmology; evolution. The course seeks to introduce students to a wide range of concerns and does not presuppose detailed knowledge of religion or science.

REL 394 Topics: Religious Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing or consent of the instructor.

Taught: Variable, check with department

In-depth examination of a major thinker, school, or issue in religious studies. Topic announced in Schedule of Classes. May be repeated as topics vary.

REL 499 Independent Study (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Individually supervised readings and study of a selected topic. May be repeated.

REL 594 Topics In Religious Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Selected topics in religious studies. May be repeated as topics vary.

REL 599 Independent Study (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Individually supervised readings and study of a selected topic in religious studies. May be repeated as topics vary.

Respiratory Care Courses (RSP)**RSP 101 Introduction to Allied Health (1 credit)**

Hours: 1 classroom + 0 lab/studio

Taught: Spring only

Introduction to the professions of respiratory care and radiologic technology, including basic job responsibilities/scope of practice, medical terminology, and patient assessment. More specific information regarding the respiratory care and radiography programs will be presented. Same as RAD101

RSP 201 Fundamentals of Respiratory Care (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Admission to respiratory care program.

Co-requisites: RSP 201L and RSP 286.

Taught: Fall only

Introductory respiratory care theory and procedures; basic respiratory system anatomy and physiology, administration procedures for aerosolized medications; theory and equipment for oxygen therapy, pulse oximetry, hyperinflation therapy, and mucous clearance techniques.

RSP 201L Respiratory Care Equipment and Procedures (1 credit)

Hours: 0 classroom + 2 lab/studio

Co-requisites: RSP 201.

Taught: Fall only

Demonstration and practice in basic respiratory care procedures; proper body mechanics, patient assessment, administration of oxygen therapy, bland aerosol therapy, incentive spirometry, aerosolized medication, and mucus clearance techniques.

RSP 202 Medical Terminology for Health Professions (1 credit)

Hours: 1 classroom + 0 lab/studio

Co-requisites: RAD 208 or RSP 201.

Taught: Fall only

Independent learning of word parts, including prefixes, suffixes, and roots, and the combina-

tion of these parts to form complex symptomatic, diagnostic, operative, and therapeutic medical terms related to the language of allied health professions; approved medical abbreviations will also be included.

RSP 220 Introduction to Respiratory Critical Care (3 credits)

Hours: 3 classroom + 2 lab/studio

Prerequisites: RSP 201 and RSP 201L with grades of C or better.

Co-requisites: BIO 209 and 209L.

Taught: Spring only

Theory, application and demonstration of procedures and equipment used for advanced respiratory care and emergency procedures, airway management, non-invasive ventilatory support, arterial blood gas collection, ECG arrhythmia recognition and treatment.

RSP 235 Respiratory Physiology and Physics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: RSP 201, RSP 201L, BIO 208 and BIO 208L.

Co-requisites: BIO 209 and BIO 209L.

Taught: Spring only

Functional anatomy of respiratory systems structures; mechanics and control of ventilation; pulmonary blood flow and the matching of ventilation with perfusion; acid-balance and the interpretation of blood gases; oxygen transport and the concepts of shunting and dead space; physics of gasses applicable to respiratory care. PREREQ OR

RSP 286 Clinical Practicum I (3 credits)

Hours: 0 classroom + 24 lab/studio

Co-requisites: RSP 201 and RSP 201L.

Taught: Fall only

Professionally supervised experience in basic respiratory care procedures in acute-care hospitals: oxygen administration, lung expansion therapies, aerosolized medication administration, and mucus clearance techniques; proper documentation and preparation of clinical case reports.

RSP 296 Clinical Practicum II (3 credits)

Hours: 0 classroom + 24 lab/studio

Prerequisites: RSP 286.

Co-requisites: RSP 220- 220L.

Taught: Spring only

Professionally supervised experience in basic and intermediate respiratory care procedures; suctioning, hand ventilation, arterial puncture, phlebotomy, CPR, and care of patients with artificial airways; developing skill in time management, organization and effective communication with other healthcare professionals.

RSP 299 Independent Study: Respiratory Care (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Variable, check with department

Individually supervised work involving readings, research, and/or clinical activities in areas of special interest or need. Topics, activities, and evaluation procedures specified by instructor and approved by program director prior to registration. May be repeated for a maximum of 6 semester hours.

RSP 310 Advanced Critical Care (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in RSP 220 and RSP 220L.

Co-requisites: RSP 310L.

Taught: Summer only

Theory and procedures for providing artificial ventilation to patients in respiratory failure; indications for ventilatory support; techniques for evaluating ventilatory reserve; management and weaning of patients on ventilators; critical thinking in application of PEEP, IMV, Pressure Support, and other modes of respiratory therapy used for critical patients.

RSP 331 Cardiopulmonary Diagnostics (2 credits)

Hours: 2 classroom + 0 lab/studio

Taught: Fall only

Theory, procedures, and instrumentation used to evaluate hemodynamic and pulmonary function; interpretation of pressure waveforms and measurements and cardiovascular calculations and pulmonary function studies; quality control procedures; recent advancements in critical care.

RSP 350 Cardiopulmonary Pathophysiology (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Assessment techniques for pulmonary disease patients including history taking, chest physical exam, basic radiography, lab study, and PFT interpretation, pulmonary and critical care medicine, obstructive and restrictive pulmonary disease, cardiac and cardiovascular disorders, neurologic and neuromuscular disorders, shock, trauma, sepsis, near drowning, burns, smoke inhalation, carbon monoxide poisoning, drug overdose, renal failure, acute G.I. disturbances, and respiratory care of the post-operative patient will be reviewed.

RSP 362 Prenatal-Pediatric Respiratory Care (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in RSP 310.

Co-requisites: RSP 396.

Taught: Fall only

Prenatal lung development, fetal circulation, and changes at birth; differences in respiratory

anatomy and physiology between young children and adults; specialized techniques of airway management and artificial ventilation; applications of respiratory system monitoring and therapeutic modalities; respiratory diseases commonly seen in pediatrics.

RSP 386 Clinical Practicum III (3 credits)

Hours: 0 classroom + 16 lab/studio

Prerequisites: RSP 296.

Co-requisites: RSP 310-310L.

Taught: Summer only

Artificial ventilation to patients on life support; initial ventilator set-up, control adjustments, monitoring, circuit changes, and weaning; further experience with artificial airways and routine respiratory care procedures in the critical care setting.

RSP 396 Clinical Practicum IV (3 credits)

Hours: 0 classroom + 16 lab/studio

Prerequisites: RSP 296.

Co-requisites: RSP 331 and RSP 362.

Taught: Fall only

Further experience in applications of respiratory care in the intensive care unit, cardiopulmonary monitoring, applications of pulmonary rehabilitation, pediatric respiratory care.

RSP 441 Disease Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Students will review the delivery of health care to chronically ill patients with lung and heart disorders with emphasis on the respiratory care. Patient case reviews will utilize a multidisciplinary approach to case management and responsibilities unique to the respiratory therapist. This course will aid those wishing to become certified asthma educators.

RSP 442 Disease Management II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in RSP 441.

Taught: Variable, check with department

Students will review the rationale and methods used in cardiopulmonary diagnostics and cardiopulmonary rehabilitation in hospital-based programs, long-term care facilities and in the home. Patient case reviews will utilize a multidisciplinary approach to case management and responsibilities unique to the respiratory therapist.

RSP 451 Polysomnography I (3 credits)

Hours: 2 classroom + 1 lab/studio

Taught: Variable, check with department

This course is designed to provide both didactic and laboratory training for entry-level personnel in the basics of Polysomnography Technology. Students will become familiar with medical terminology, instrumentation setup and calibration, recording and monitoring techniques, documentation, professional is-

sues, and patient-technologist interactions related to Polysomnographic Technology. Laboratory sessions will provide practical experience.

RSP 452 Polysomnography II (3 credits)

Hours: 2 classroom + 2 lab/studio

Taught: Variable, check with department

Presentation and discussion of psychomotor practices related to interpretation of the polysomnogram for adult and pediatric patients. Emphasis on therapeutic equipment, protocols, artifact recognition and troubleshooting of the equipment.

RSP 480 Respiratory Care Seminar (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior status in the respiratory care program.

Taught: Spring only

Contemporary ethical and legal issues affecting the practice of respiratory care; effects of managed care and other market forces on departmental operations; resume preparation and other job search skills; preparation for and practice with Entry Level, Written Registry, and Clinical Simulation examinations for self-assessment.

RSP 486 Clinical Practicum (3 credits)

Hours: 0 classroom + 16 lab/studio

Prerequisites: RSP 396.

Taught: Spring only

Experience providing neonatal respiratory care; training in airway management techniques; development of leadership and time management skills; summative clinical rotations.

RSP 496 Clinical Practicum VI (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Students will complete clinical competencies focused in the areas of specialization of either disease management or polysomnography.

Russian Courses (RUS)

RUS 101 Elementary Russian I - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Fundamentals; introduction to cultures of Russian-speaking countries; basic principles of the Russian language including study of the Cyrillic alphabet, pronunciation, and simple idioms.

General education credit: Culture and Creativity

RUS 102 Elementary Russian II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: RUS 101 or equivalent.

Taught: Spring only

Continuation of RUS 101, with addition of new vocabulary and more complex grammar and idiom forms.

RUS 201 Intermediate Russian I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: RUS 102.

Taught: Variable, check with department

Continuation of RUS 102, with addition of new vocabulary and more complex grammar and idiom forms, as well as more complex cultural and literary readings.

RUS 202 Intermediate Russian II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: RUS 201.

Taught: Variable, check with department

Continuation of RUS 201; advanced vocabulary and more complex grammar and idiom forms, as well as more complex cultural and literary readings.

Integrated Sciences Courses (SCI)

SCI 100 SOAR Freshman Seminar I (2 credits)

Hours: 2 classroom + 0 lab/studio

Taught: Fall only

First part of a specialized University 101 course specifically for Project SOAR: Scholarships, Opportunities, Achievements, and Results (SOAR) Scholars.

SCI 101 Introduction to STEM Careers (1 credit)

Hours: 1 classroom + 0 lab/studio

Taught: Spring only

Introduction to degrees and careers in science, technology, engineering, and mathematics (STEM), engaging students in discovery and discussion about the nature of the disciplines, distinctions and connections between them, and opportunities within them.

SCI 110 Integrative Science - SL (4 credits)

Hours: 2 classroom + 3 lab/studio

Prerequisites: Math ACT of 19 or placement.

Prereq OR Co-req: ENG 101.

Taught: Fall and spring

Introduction to science, engineering and mathematical concepts through laboratory experiments and application of algebraic functions in problem solving through the perspective of a critical thinker. Hands-on activities, the scientific process and mathematical modeling of physical systems in an inquiry-based, active-learning environment will lead to students' discovery of scientific concepts.

General education credit: Natural Science

SCI 110H Honors Integrative Science - SL (4 credits)

Hours: 2 classroom + 3 lab/studio

Prerequisites: Math ACT of 22 or placement ENG 101.

Prereq OR Co-req: ENG 101.

Taught: Spring only

Introduction to science, engineering and mathematical concepts through laboratory experiments and application of algebraic functions in problem solving through the perspective of a critical thinker. Hands-on activities, the scientific process and mathematical modeling of physical systems in an inquiry-based, active-learning environment will lead to students' discovery of scientific concepts.

General education credit: Natural Science

Sociology Courses (SOC)**SOC 100 Introduction to Sociology - SB (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Sociology is the scientific study of society. More specifically, it is the study of ways in which humans construct meanings and organize social relationships and activities. This discipline seeks to develop students' ability to observe and think critically about their own and other societies and to become more sensitive to behavioral and value differences among people (which powerfully shape attitudes and opinions). Serious students of sociology will learn that sociological concepts, theories, and methods are powerful analytical tools for making connections between personal problems and larger social issues and for understanding how local, regional, national and global communities are intertwined. Such understanding and skills will facilitate decision-making and constructive ethical and responsible action to address the issues we face today.

General education credit: Individual and Society, General education credit: Global Viewpoints

SOC 101 Global Inequalities - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Global Inequality is the study of ways in which humans construct meanings as they relate to similarities and differences and organize social relationships and activities in ways that advantage some groups over others. Special emphasis is paid to inequalities across and within countries, effects of imperialism and colonialism on linguistic or cultural diversity; theories of cultural development, the interconnections between and differences among local, national, and global communities; and the influence of cultural and socioeconomic

background in shaping attitudes and opinions (in themselves and others).

General education credit: Cultural Pluralism,

General education credit: Global Viewpoints

SOC 202 Juvenile Delinquency (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Definition; investigation of evidence and etiology; judicial change and youth corrections.

SOC 205 Current Social Issues (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Analysis of one or more major current issues, e.g., abortion, nuclear proliferation, poverty, or fundamentalist religious movements; advancement of student comprehension of social issues, using the perspective and methods of sociology. Topics will change regularly and will be announced at time of offering.

SOC 300 Race and Ethnic Relations (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Spring only

Dominant-minority intergroup relations; prejudice, discrimination, and other intergroup processes; racial and ethnic minorities in U.S. society.

SOC 301 World Patterns of Race Ethnicity (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100 or ANT 100.

Taught: Fall only

Patterns of intergroup relations in multi-ethnic societies; similarities and differences between these and U.S. Same as ANT 301.

SOC 303 Social Psychology (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Interactionist approach to study of development of the self; social roles; identity; social relationships; creativity; deviance; social control.

SOC 305 Criminology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Concepts, theories, and major research findings of crime and criminal behavior; analysis of the criminal justice system, including various forms of corrections and rehabilitation.

SOC 307 Social Stratification (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Theories of social class; distribution of wealth, prestige, and power in U.S.; patterns of social mobility.

SOC 308 Social Organization (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Structure and function of organized groups and organizational behavior; formal organization.

SOC 315 Marriage and the Family (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Major theoretical approaches with emphasis on interaction; the family as a social institution, with cultural, social, and emotional implications of dating and mate selection; meeting family crises and problems; marital adjustment; social changes affecting the family.

SOC 318 Sociology of Work and Occupations (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

An analysis of work and occupations in the global economy as well as the structural forces that impact work in the USA and internationally.

SOC 319 Managing and Analyzing Databases (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Introduction to database creation, management and analysis. Designed to give students hands-on experience assessing, building, evaluating, applying and drawing conclusions related to large data sets.

SOC 320 Social Research (3 credits)

Hours: 3 classroom + 0 lab/studio

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. PREREQ: SOC 100

SOC 321 Applied Social Research (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100 (SOC 320 strongly recommended).

Taught: Variable, check with department

Application of standard social science techniques for analyzing social data; introduction to

use of computers, social science software programs, and frequently used statistical routines in processing information generated by research studies.

SOC 322 Qualitative Research Methods (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Introduction to the theory and methods of qualitative research. Students will learn the basics of research design and analysis, featuring data gathered using interview techniques, content analysis, ethnography, observation, and other qualitative research methods. Special attention will be given to the research ethics that guide sociological research.

SOC 330 Classical Sociological Theory (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Fall and spring

Major classical sociological theories and their exponents.

SOC 332 Collective Behavior (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

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 334 Contemporary Sociological Theory (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Spring only

Provides students with an analysis and an understanding of the major contemporary theories that underlie both quantitative and qualitative sociological research.

SOC 335 Popular Culture (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Expression and contest of popular culture as it relates to social change and thought in U.S. during the 20th century; social implications of democratic ideals, sexual mores, arts vs. pornography, youth culture, roles of music and advertising, images of women, and social and ethnic stereotypes.

SOC 340 Population (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Fertility, mortality, and internal and international migration; population dynamics; inter-

dependence of demographics and social and economic variable.

SOC 342 Sociology of Aging (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Social and demographic characteristics of the elderly population; sociological theories and methods for studying the elderly; adjustment problems of aging; prejudice and discrimination against the elderly.

SOC 345 Native American Social Issues (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

This course covers a range of social issues faced by contemporary Native Americans on and off reservations. Issues are presented within diverse social and historical contexts. Activist responses are considered along with the social consequences of past and current initiatives and policies.

SOC 350 Women and Crime (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Sociological analysis of gender issues for women as victims, offenders, and professionals in law enforcement; power imbalance experienced by women in criminal justice.

SOC 355 Sociology of the Environment (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Analysis of social causes and consequences of environmental degradation; examination of responses to U.S. environmental problems by government, communities, and environmental organizations; assessment of U.S. environmental policies; application of sociological theory and research methods to environmental issues.

SOC 357 Guns and Society (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Social and demographic analysis of the characteristics of the ownership, usage, and impact of guns in the U.S.; cross-cultural perspective on the development of gun cultures.

SOC 360 Technology and Social Change (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Sociological analysis of interaction of technology and society; social issues arising with technological advancement; sociological fac-

tors influencing the direction of technological change and the adoption of technology; issues of the role of science in contemporary society.

SOC 364 Women and Men in Society (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Using major theoretical perspectives, the course provides an analysis of the roles of women and men in American society, as well as cross culturally; provides a greater understanding of the social forces influencing women and men in society.

SOC 369 Sex Crimes (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100 or JUS 101.

Taught: Variable, check with department

Sociological analysis of patterns of sex crimes and responses to them; primary focus on the United States.

SOC 370 The Sociology of Surveillance (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior Standing.

Taught: Fall only-even years

A transdisciplinary approach to how surveillance technologies and societies interacted to change social life post-9/11 including the production of security, fear, control, vulnerability and/or empowerment to resist it. Includes the surveillance capacities of social media, the systematic monitoring of institutions, individuals, public and private spaces, and how social behavior has responded.

SOC 380 Elite Deviance (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Sociological examination of corporate and governmental deviance.

SOC 381 Deviance and Social Control (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Forms of social control used to maintain social order; techniques of control ranging from manners to law.

SOC 394 Topics: Sociology (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

A recent development in any phase of sociology. See Schedule of Classes for current topic and prerequisites.

SOC 400 Urban Society (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Urbanization, industrialization, metropolitanization, and urban ecology; impact of large-scale population aggregations on social institutions; adaptation and adjustment of migrants; developing nations.

SOC 415 Sociology of Planning and Development (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Provides students with a sociological perspective of the planning and development process. Examines who, what, where, and when of the planning process and at what point in planning and development do various populations have access to the process and to what extent do all have a say in the process.

SOC 425 Political Sociology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100, or PSC 100.

Taught: Variable, check with department

Theories of power and legitimacy; elites and masses; power structures of U.S. and other societies: social correlates of political ideology; socio-political movements.

SOC 430 Sociology of Religion (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Religion as a social institution; religious behavior; structure and function of religious institutions; interdependence with other social institution.

SOC 435 Sociology of Sexualities (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

While 'human sexuality' may seem to be static and biologically determined, in sociology we see sexualities as complex, varied, and shaped by social forces, influencing life chances and quality of life for people of various cultural, social, and historical circumstances. This course examines sexualities in these contexts.

SOC 450 Medical Sociology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Major sociological theories of sickness and health; social and cultural aspects of disease definition, help seeking, and response to illness; provider-patient roles and relationships; health care delivery systems in various societies.

SOC 460 Research Practicum Preparation (1 credit)

Hours: 1 classroom + 0 lab/studio

Prerequisites: SOC 322 or ANT 325.

Taught: Variable, check with department

Small-group seminar to introduce practicum skills: finding a placement assignment, writing a project proposal, making a contract, working with agency/business personnel, working in teams, scheduling projects, writing reports, managing time, Same as ANT 460.

SOC 480 Global Aging Issues and Policies (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Global aging issues and policies with emphasis on the health and care of aging populations, theories of adult development, cross-cultural comparisons and social gerontology. Addresses the relationships and interactions between and among the elderly, their families, social and health care professionals, and the various organizations that serve them.

SOC 485 Sociology of Global Issues (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Provides an analysis of concepts, theories, and social and cultural relationships among and within societies. Examines the institutional structures as well as counter structures (e.g. NGOs) that influence the networks of power among societies and the well being of their populations.

SOC 488 Sociology of Law (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100.

Taught: Variable, check with department

Social and cultural factors influencing emergence and maintenance of law as a social institution and affecting relations between law and deviant behavior; theoretical and methodological issues encountered in study of law.

SOC 491 Research Practicum II (3 credits)

Hours: 3-6 classroom + 0 lab/studio

Taught: Variable, check with department

Continuation of SOC 391. Same as ANT 491.

SOC 494 Seminar: Sociology Senior Seminar (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SOC 100 and at least 21 semester hours in sociology and senior standing.

Taught: Fall only

Senior seminar required as a capstone experience for seniors majoring in sociology.

SOC 499 Readings: Sociology (1-6 credits)

Hours: 3-6 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Specialized topics or research interest.

SOC 520 Sociology of Education (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Connection of education to the external social system; education as a web of organizations and associations and as a subsystem of other institutions.

SOC 594 Topics: Sociology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Selected topics in sociology. May be repeated as topics vary.

SOC 599 Independent Study (3 credits)

Hours: 3-6 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Individually supervised readings and study of a selected topic in sociology. May be repeated as topics vary.

Sports Business Courses (SPB)**SPB 200 Rivalry and Rituals: International Sport (3 credits)**

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

'Rivalry and Rituals' uses the socially prominent context of international sports to examine cultural development, influence and conflict within and across persons and geographic boundaries.

SPB 305 Sports Marketing and Promotion (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in MKT 205 and SPB 200.

Taught: Fall and spring

Sports Marketing will build upon the marketing knowledge base and provide an overview of all the issues faced by marketing managers within the sports industry and outside the industry who market through sports. Students will be introduced to the unique qualities of the sports product and also examine the promotion mix, pricing and distribution issues as they relate to the sports industry.

SPB 307 Moneyball: The Economics of Sports (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C or better in ECO 201.**Taught: Variable, check with department*

Challenges students to apply economic theory to the unique aspects of college and professional sports. Highlights of the course include the industrial structure of sports, public financing of sports, and labor markets in sports.

SPB 309 Sports Public Relations (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C or better in MKT 205.**Taught: Fall and spring*

Introduction to the elements of the promotional mix that identify, establish and maintain mutually beneficial relationships between the sports organizations and the various publics on which its success or failure depends.

SPB 330 Sports Legal Environment (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: Junior standing.**Taught: Fall and spring*

This course will explore the landmark decisions and social environment, which have transformed sports into a very powerful industry enjoying special protection under the law. Topics will include sports franchise rights, legal issues, anti-trust laws, sports agents, injuries to athletics, intercollegiate sports, collective bargaining issues, the powers of the Commissioner and gender equality.

SPB 350 Development and Fundraising in Sports (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: C or better in MKT 205, SPB 305.**Taught: Fall only*

This course is designed to provide a comprehensive overview for the fundraising, donor relations, non-profit, premium seating, and ticket sales profession. Students are provided with an ethical foundation and are introduced to basic terminology and concepts in the field. While students develop an understanding of the essentials of fundraising operations, they will also examine larger issues confronting today's fundraising managers. Topics will include major gift fundraising, annual funds, booster club organizations, priority seating programs, and benefits, the importance of donor research in the fund raising process, and the process from development to the transaction.

SPB 394 Topics: Sports Business Issues (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: SPB 305.**Taught: Variable, check with department*

Specialized topics of faculty and student interest. Topics vary. May be taken two times for elective credit if topics differ.

SPB 396 Internship: Sports Business (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: SPB 305 and consent of instructor.**Taught: Fall, spring, and summer*

Supervised professional work experience in approved sport or sports related organization.

SPB 480 Sports Business Strategies and Policies (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: SPB 305, SPB 308, certification as Sports Business major and senior standing.**Taught: Fall and spring*

Application of theories to a wide variety of current issues and problems within the sports industry using case analysis.

SPB 499 Independent Study: Sports Business (3 credits)*Hours: 1-3 classroom + 0 lab/studio**Prerequisites: SPB 305, senior standing and consent of instructor.**Taught: Variable, check with department*

Students pursue a topic or project of interest to them under faculty supervision. Meeting times by arrangement with instructor.

Spanish Courses (SPI)**SPI 101 Elementary Spanish I - AH (3 credits)***Hours: 3 classroom + 0 lab/studio**Taught: Fall and spring*

Fundamentals; introduction to Hispanic cultures; development of skills in conversation, pronunciation, grammar, reading, and writing.

*General education credit: Culture and Creativity***SPI 102 Elementary Spanish II (3 credits)***Hours: 3 classroom + 0 lab/studio**Prerequisites: For students who have completed SPI 101 or equivalent.**Taught: Fall and spring*

Continuation of SPI 101.

SPI 201 Intermediate Spanish I (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: For students who have completed SPI 102 or equivalent.**Taught: Fall and spring*

Review and extension of basic language skills learned in SPI 101 and SPI 102; reading and discussion of cultural, linguistic, and literary subjects.

SPI 202 Intermediate Spanish II (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: For students who have completed SPI 201 or equivalent.**Taught: Fall and spring*

Continuation of grammar review and enhancement of language skills begun in SPI 201; cultural and literary subjects.

SPI 304 Spanish Composition and Conversation (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: SPI 202 or equivalent.**Taught: Fall and spring*

Advanced practice in writing Spanish compositions and in oral conversation skills.

SPI 310 Spanish Culture and Civilization (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: SPI 202 or equivalent.**Taught: Variable, check with department*

Study of eras, institutions, and issues in the history and culture of Spain and the Iberian peninsula; readings primarily in Spanish.

SPI 311 Spanish-American Culture and Civilization (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: SPI 202 or equivalent.**Taught: Variable, check with department*

Eras, institutions, and issues in Spanish-speaking countries of Central and South America; the Hispanic presence in the United States; readings primarily in Spanish.

SPI 320 Survey of Peninsular Spanish Literature (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: SPI 202 or equivalent.**Taught: Variable, check with department*

Overview of major authors and movements from the middle ages to the 20th century; readings in Spanish.

SPI 321 Survey of Spanish-American Literature (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: SPI 202 or equivalent.**Taught: Variable, check with department*

Overview of major authors and movements from the 18th to the 20th century; readings in Spanish.

SPI 322 Hispanic Drama (3 credits)*Hours: 3 classroom + 0 lab/studio**Prerequisites: SPI 202 or equivalent.**Taught: Variable, check with department*

Study of major authors and texts in the history of Spanish theater, including representative twentieth-century playwrights. Readings in Spanish. May be repeated when topics vary.

SPI 323 Hispanic Prose Fiction (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SPI 202 or equivalent.

Taught: Variable, check with department

Focus on novel, novella, or short story. May be repeated as topics vary.

SPI 330 Studies in Spanish Language Cinema (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SPI 202 or equivalent.

Taught: Variable, check with department

Survey of films produced in the Spanish language. Emphasizes both the aesthetic aspects of the films as well as their historical, political, social and cultural content. May be repeated as topics vary.

SPI 340 Business Spanish (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: SPI 202 or equivalent.

Taught: Variable, check with department

Spanish business terminology; practice in writing and translating business letters. For students majoring in business and other seeking to broaden their career opportunities.

SPI 350 Methods of Teaching Spanish (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of Spanish at the 300 level or above.

Taught: Spring only

Theoretical and practical considerations of teaching Spanish in secondary schools. Required of all students seeking teaching certification in Spanish.

SPI 401 Spanish Phonetics and Pronunciation (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of Spanish on the 300 level or above or consent of instructor.

Taught: Spring only-even yrs

Study of Spanish sound system, how sounds are produced, which ones are used in Spanish, and in what contexts they occur. Satisfies the linguistics requirement for Spanish Education majors.

SPI 402 Advanced Spanish Grammar and Syntax (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of Spanish on the 300 level or above or consent of instructor.

Taught: Spring only-odd yrs

Study of grammar through analysis of key linguistic structures and applied practice. Analysis of word formation, sentence structure, and semantics. Satisfies the linguistics requirement for Spanish Education majors.

SPI 480 Studies in Spanish and Spanish-American Culture (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of Spanish on the 300 level or above or consent of instructor.

Taught: Variable, check with department

Topics in culture and language of Spanish-speaking countries. May be repeated for credit when topics vary.

SPI 481 Studies in Spanish and Spanish-American Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 6 semester hours of Spanish on the 300 level or above or consent of instructor.

Taught: Variable, check with department

Topics in literature, literary history, and literary theory. May be repeated for credit when topics vary.

SPI 499 Independent Study: Spanish (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Readings in language and literature.

SPI 520 Readings in Spanish (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: 300-level Spanish course.

Taught: Variable, check with department

Various literary, linguistic, cultural, and pedagogical topics. May be repeated for credit as topics vary.

Statistics Courses (STA)**STA 110 Introductory Probability (3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAHD 095 or MAHD 099 or placement.

Taught: Fall and spring

Enumeration techniques and probability theory. Not open to students who have completed STA 250.

STA 111 Basic Probability (1 credit)

Hours: 1 classroom + 0 lab/studio

Prerequisites: STA 205 or STA 212 and consent of chairperson.

Taught: Variable, check with department

Probability; basic counting techniques.

STA 113 Introduction to Probability and Statistics - QR (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAHD 099 or MAHD 095 or placement.

Taught: Fall, spring, and summer

Probability; basic counting techniques; graphical descriptive methods; numerical descriptive methods; normal distribution; sampling distribution of a proportion; estimation of a proportion. Not open to students who have completed

both of MAT/STA 110 and STA 205, or both of MAT/STA 110 and STA 212, or STA 250 or STA 314.

General education credit: Mathematics

STA 204 Statistics for Middle Grades Teachers (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAHD 095 or placement.

Taught: Fall only

Concepts of statistical description and inference as they relate to middle and secondary standards; graphical displays of qualitative and quantitative data; measures of central tendency, variability, and position; normal distributions; linear regression and correlation; patterns of association in bivariate categorical data; simulation for inferential techniques, including confidence intervals and randomization tests; use of statistical software. Open only to students majoring in elementary or middle grades education or by instructor permit.

STA 205 Introduction to Statistical Methods - QR (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAHD 099 or MAHD 095 or placement.

Taught: Fall, spring, and summer

Graphical descriptive measures; numerical descriptive measures; probability; hypothesis testing, estimation; analysis of variance; chi-square; regression; analysis by means of statistical software. Credit is not given for both STA 205 and STA 212. Not open to students who have completed STA 250 or STA 314.

General education credit: Mathematics

STA 212 Statistics for Business Applications I - QR (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in MAHD 099 or MAHD 095 or placement.

Taught: Fall, spring, and summer

Concepts of statistical description and inference and their use in business decision making; measures of central tendency and variability; hypothesis testing; estimation; linear regression and correlation; use of statistical software. Credit is not given for both STA 205 and STA 212. Not open to students who have completed STA 250 or STA 314.

General education credit: Mathematics

STA 213 Statistics for Business Applications II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in STA 212.

Taught: Fall, spring, and summer

Further development of key topics in STA 212; analysis of variance; chi-square tests; non-parametric inference; regression analysis;

additional inference topics; use of statistical software.

STA 250 Probability and Statistics I (3 credits)

Hours: 3 classroom + 0 lab/studio

Co-requisites: MAT 227.

Taught: Fall and spring

Introduction to probability and statistics; discrete distributions, continuous distributions, sampling distributions, estimation and hypothesis testing. PREREQ: C- or better in MAT 129 or

STA 292 Introductory Statistical Research (0 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: Consent of instructor.

Taught: Variable, check with department

Introduction to research in statistics by participation in a special project or original research directed by a member of the Department of Mathematics and Statistics faculty. Course intended for statistics majors interested in statistics research but not ready or able to enroll in more advanced research courses. Pass/fail grade only.

STA 294 Topics: Statistics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Varies with topic (see Schedule of Classes).

Taught: Variable, check with department

Various topics in Statistics.

STA 299 Directed Readings/Independent Study (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Consent of Instructor.

Taught: Variable, check with department

STA 312 Elementary Survey Sampling (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in STA 205 or STA 212 or STA 250.

Taught: Spring only-even yrs

Describing sets of data; estimation; elements of survey samples; single random, stratified, cluster, and systematic sampling methods; ratio and regression estimation; sampling from wildlife populations. Students will be required to conduct and analyze an actual survey.

STA 314 Design and Analysis of Experiments (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in STA 213 or STA 250; or B- or better in STA 205 or STA 212.

Taught: Fall only

Analysis of variance and experimental design; multiple comparison techniques; factorial experiments; random and fixed effects models; nested and split plot designs; use of statistical software.

STA 316 Regression Analysis (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in STA 213 or STA 250; or B- or better in STA 205 or STA 212.

Taught: Spring only

Simple linear regression; multiple regression; diagnostics and remedial measures; logistic regression; additional topics in regression; use of statistical software. Not open to students who have completed STA 315.

STA 317 Introduction to Time Series Analysis (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in STA 213 or STA 316 or STA 341.

Taught: Fall only-odd years

Development of ARIMA models; estimation and confidence limits for model parameters; time series smoothing techniques; forecasting with ARIMA models; diagnostic checking.

STA 340 Probability II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in STA 250 and (MAT 228 or MAT 229).

Taught: Fall only

Further study of topics in STA 250; multivariate distributions, approximations, functions of random variables; additional topics.

STA 341 Statistics II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in STA 250.

Taught: Spring only

Further study in statistics topics introduced in STA 250. Topics include confidence intervals and hypothesis testing, one-factor analysis of variance, simple linear regression, chi-square analyses, and nonparametric tests.

STA 360 Statistical Computing (3 credits)

Hours: 3 classroom + 0 lab/studio

PREREQ: C- or better in STA 213 or STA 314 or STA 316 or STA 341, or Co-req: STA 314.

Taught: Fall only

Use of high-level statistical software package; data management and manipulation including sorting, merging, subsets; data analysis including frequency distributions, contingency tables, tests for means, correlation, simple and multiple linear regression, and analysis of variance; programming techniques applied to statistical analysis.

STA 370 Introduction to Statistical Consulting (3 credits)

Hours: 1 classroom + 6-9 lab/studio

Prerequisites: consent of instructor and C- or better in STA 314 or STA 341.

Taught: Variable, check with department

Supervised application of statistical methods to real research problems in the Burkardt Consulting Center (BCC); readings and discussions on statistical consulting topics; attend

meetings with clients of the BCC, manage data, analyze data, and produce summary reports under faculty supervision).

STA 392 Research in Statistics (0-3 credits)

Hours: 0-3 classroom + 0 lab/studio

Prerequisites: Consent of Instructor.

Taught: Variable, check with department

Original research in statistics directed by a member of the Department of Mathematics and Statistics faculty.

STA 394 Intermediate Topics: Statistics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Varies with topic (see Schedule of Classes).

Taught: Variable, check with department

Various topics in Statistics.

STA 399 Directed Readings/Independent Study (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

STA 419 Applied Multivariate Statistics (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in STA 360 and (STA 314 or STA 316 or STA 341).

Taught: Spring only-odd yrs

Introduction to multiple multivariate analysis techniques including: principal component analysis, factor analysis, discriminant analysis, logistic regression, and cluster analysis; other topics as time permits.

STA 450 Introduction to Actuarial Science (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C- or better in STA 340.

Taught: Variable, check with department

Advanced topics of probability theory; applications of probability in risk management and insurance; preparation for actuarial society examinations.

STA 470 Supervised Statistical Consulting (3 credits)

Hours: 1 classroom + 6-9 lab/studio

Prerequisites: Grade of P in STA 370.

Taught: Variable, check with department

Continuation of STA 370; more active involvement in consulting projects; completion of a major oral presentation.

STA 490 Statistics Research Proposal (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Consent of Department.

Taught: Variable, check with department

Development of a comprehensive proposal for a research project in Statistics. Includes feasi-

bility study, identification of resources, establishment of appropriate goals, proposal writing, and a public defense. May not be applied toward elective hours in the mathematics or statistics major. Pass/Fail.

STA 491 Statistics Honors Research Project (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Passing grade in STA 490.
Taught: Variable, check with department
 Supervised research in statistics concluding with a written report and public presentation of results.

STA 494 Advanced Topics: Statistics (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Varies with topic (see Schedule of Classes).
Taught: Variable, check with department
 Various topics in Statistics.

STA 499 Directed Readings/Independent Study (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio
Prerequisites: consent of instructor.
Taught: Variable, check with department

STA 594 Topics: Statistics (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: varies with topic (see Schedule of Classes).
Taught: Variable, check with department
 Topics in statistics. Topics vary.

Social Work Courses (SWK)

SWK 105 Social Work and the Community - SB (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Fall, spring, and summer
 Introductory course designed to give the student interested in the social work profession an opportunity to explore the needs of client systems of diverse populations. Via the course materials and an experiential component, each student is provided with an avenue for testing and evaluating a commitment to, and a capacity for, working with people.
General education credit: Cultural Pluralism

SWK 106 Introduction to Social Justice - AH (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
 This class is an introduction to foundational concepts and ethical concerns in social justice studies. Course that promotes critical thinking, multiple perspectives, and a sense of personal responsibility in the local and global community. This course is the first in the sequence for the social justice minor.
General education credit: Global Viewpoints

SWK 203 Social Welfare in Contemporary Society (3 credits)

Hours: 3 classroom + 0 lab/studio
Taught: Fall and spring
 The systematic study of major social problem areas: poverty, health, education, hunger, housing, sexism, and racism, and their implications for social welfare services. A critical and comparative analysis of society's response to human need.

SWK 303 Professional Interactional Skills (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Grade of C or better in SWK 105 and SWK 203 is required.
Co-requisites: SWK 304, SWK 305, and SWK 407. Course restricted to Social Work majors accepted into the program. Offered Fall.
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.

SWK 304 Human Behavior and Social Environment I (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: C or better in SWK 105 and SWK 203.
Co-requisites: SWK 303, SWK 305 and SWK 407. Course restricted to Social Work majors accepted into the program.
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.

SWK 305 Social Work Practice I (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Grade of C or better in SWK 105, SWK 203, SWK 303 and SWK 304. Course restricted to Social Work majors.
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.

SWK 307 Human Behavior and Social Environment II (3 credits)

Hours: 5 classroom + 0 lab/studio
Prerequisites: Grade of C or better in SWK 105, SWK 203 is required.
Co-requisites: SWK 308, SWK 310, and SWK 405. Course restricted to social work majors accepted into the program. Offered Spring.
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.

SWK 308 Social Work Research (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Grade of C or better in SWK 105 and SWK 203, and STA 113, 205, or 212 is required.
Co-requisites: SWK 307, SWK 310, and SWK 405. Course restricted to Social Work majors accepted into the program or with consent of instructor. Offered Spring.
Taught: Spring only
 Needs assessment, case evaluation, and program evaluation; components of research design and statistics essential for understanding and carrying out these activities.

SWK 310 Social Work Practice 2: Family and Groups (3 credits)

Hours: 3 classroom + 0 lab/studio
Prerequisites: Grade of C or better in SWK 105 and 203 is required.
Co-requisites: SWK 307, 308, and SWK 405. Course restricted to Social Work majors accepted into the program. Offered Spring.
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.

SWK 394 Topics: Social Welfare (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

A specific aspect of social work practice or social welfare concern. See Schedule of Classes for current topic and prerequisites.

SWK 405 Social Work Practice: Community Organizations (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: C or better in SWK 105 and 203.

Co-requisites: SWK 307, SWK 308 and SWK 310. Course restricted to Social Work majors accepted into the program. Offered Spring.

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.

SWK 406 Field Experience 1 (5 credits)

Hours: 5 classroom + 0 lab/studio

Prerequisites: Grade of C or better in SWK 303, 304, 305, 307, 308, 310, 405, 407. Course restricted to Social Work majors accepted into program and consent of Field Director.

Taught: Fall and spring

This first field-based course requires students complete 200 hours in a community social service agency under supervision of a professional social worker along with a weekly seminar. Students apply and integrate generalist social work knowledge and skill from the curriculum, and begin to demonstrate required competencies/practice behaviors for professional practice.

SWK 407 Social Welfare Policy (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Grade of C or better in SWK 105 and SWK 203.

Co-requisites: SWK 303, SWK 304 and SWK 305. Course restricted to Social Work majors. Offered Fall.

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.

SWK 408 Field Instruction II (5 credits)

Hours: 5 classroom + 0 lab/studio

Prerequisites: Grade of C or better in SWK 406 is required. Course restricted to Social Work majors accepted into program and consent of Field Director. Offered Fall and Spring.

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.

SWK 411 Social Work and The Law: Part I (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

The interrelationship of social work and the law; understanding the court system; testifying in court; legal services for low income people; legal regulation of social work practice; implications of significant issues involving the social worker.

SWK 450 Multicultural Issues (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

This is an upper-level undergraduate course focusing on multicultural awareness. Students are specifically encouraged to interact with those culturally different from themselves.

SWK 455 Multicultural Family Experiences (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

The purpose of this course is for the learner to begin the process of understanding diverse family experiences. The interactions between individuals and their family members are understood within their environmental and cultural context. Finally, students will learn to develop interventions with the families as participants instead of clients.

SWK 460 Ethics and Advocacy (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

The value and ethical dimensions of social work practice, and the responsibilities of individual professional practitioners must be viewed within the context of society's responsibility for the well-being of all its members. This course pays particular attention to situations in which social workers face ethical dilemmas in promoting client and family well-being, and decision-making. Through the activities and assignments of this course, students are prepared to understand the role of ethics in the profession of social work and the ethical decision making process. Particular attention is paid to the intersection between ethics and advocacy.

SWK 494 Special Topics: Bachelor of Social Work (1-6 credits)

Prerequisites: Varies with topic (see Schedule of Classes).

Taught: Variable, check with department

Various advanced topics in social work.

SWK 499 Independent Study (1-6 credits)

Hours: 1-6 classroom + 0 lab/studio

Taught: Variable, check with department
Individual readings, research, or field-based course developed by the student in consultation with instructor and approved by social work chair prior to registration.

SWK 510 Child Abuse (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Historical and contemporary perspectives; etiology, assessment, and intervention; differential and complementary roles of professions; approaches to prevention and treatment.

SWK 515 Introduction to Child Maltreatment (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Course designed to provide a comprehensive introduction to child abuse and neglect from a social work perspective. This course is the first of two specific course requirements for the child welfare certification available through Northern Kentucky University and the Department for Community Based Services (DCBS).

SWK 516 Child Welfare 2: Interventions (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Acceptance into social work program and PCWCP project.

Taught: Spring only

Course is second requirement for the Public Welfare Certification. Students will learn about various practice skills and treatment interventions related to social work with abused/neglected children and their families. Students will have several opportunities to develop their own skills through a variety of teaching methods.

SWK 520 Services to Women (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Impact of the feminist movement on the delivery of services and the development of assertiveness training, peer counseling, and self-help.

SWK 525 Substance Use and Abuse (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Various categories of drugs; treatment and rehabilitation programs; ways of developing and implementing drug education programs.

SWK 565 Compassion, Empathy and Forgiveness (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

This is an upper-level undergraduate or graduate on-line course focusing on the meanings of

compassion, empathy and forgiveness and the relationship of these concepts to social justice issues.

SWK 566 Crisis Intervention (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

This introductory course is designed to train students in the theories related to providing crisis intervention to a variety of client populations and the skills needed to provide proficient crisis intervention. Techniques/skills are based on the most up-to-date evidence informed practice.

SWK 594 Topics: Issues in Social Welfare (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Variable, check with department

A specific aspect of social welfare practice or social welfare concern. See Schedule of Classes for current offerings and prerequisites.

Theatre Courses (TAR)

TAR 100 Theatre Appreciation - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Survey of the development and practice of theatre through the study of theatre history, dramatic literature, practitioners, live performance and basic components of theatre.

General education credit: Culture and Creativity

TAR 100H Theatre Appreciation (Honors) - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only

Survey of the development and practice of theatre through the study of theatre history, dramatic literature, practitioners, live performance, and basic components of theatre.

General education credit: Culture and Creativity

TAR 102 Race, Gender and Theatre - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Exploration of race, gender and social issues which affect individuals, families, communities and society at large by the analysis and discussion of dramatic literature.

General education credit: Cultural Pluralism

TAR 102H Race, Gender, and Theatre (Honors) (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, winter, 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. This is an honors section which will be held in a seminar style, which requires your full participation. In keep-

ing the mission of honors, this course will look at texts meant to develop our global perspectives. At the same time, as is the nature of both honors and this course, we will celebrate difference and promote a sense of community. Please Note: It is not the intention of this course to influence students to think one way or another. It is the intention of this course to promote students to think.

General education credit: Cultural Pluralism

TAR 104 Introduction to NKU Theatre and Dance (1 credit)

Hours: 1 classroom + 0 lab/studio

Taught: Fall only

An introduction to Theatre and Dance at Northern Kentucky University. Exploration of the different disciplines of theatre and dance available at NKU, as well as career possibilities, in performance, dance, and production. Required of all TAR and DAN majors and minors.

TAR 110 Acting I (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Basic principles and techniques.

TAR 111 Creative Expression - OC (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Development and understanding of the oral communication process through the theory and practice of theatrical acting; utilizing the acting process as a communication tool, aide in improving oral communication skills, idea and message development, effective delivery of ideas.

General education credit: Oral Communication

TAR 114 Voice Development for the Actor I (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Speech development as related to theatre; elimination of regional accents; introductory work with the International Phonetic Alphabet.

TAR 118 Stage Make Up (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Basic techniques and principles of stage make-up for the stage.

TAR 130 Musical Skills for the Musical Theatre (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Introduction to basic reading and understanding of musical concepts specific to vocalists; strong focus on the unique demands of the musical theatre.

TAR 160 Stagecraft (2 credits)

Hours: 2 classroom + 0 lab/studio

Co-requisites: TAR 160L.

Taught: Fall and spring

Basic elements of scenery construction or basic sewing skills for theatrical costumes overview of theatrical production emphasizing practical application.

TAR 160L Stagecraft Laboratory (1 credit)

Hours: 0 classroom + 2-4 lab/studio

Co-requisites: TAR 160.

Taught: Fall and spring

Practical application of elements acquired in TAR 160.

TAR 165 Comparative Arts - AH (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

A comparative study of the evolution of historical and period styles: Students will study an overview of the evolution of furniture, décor, painting, music and clothing. This evolution will be studied within the historical context that helped shape design within the era.

General education credit: Culture and Creativity

TAR 210 Acting II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 110.

Taught: Fall and spring

Additional development of acting techniques and perceptions; greater emphasis on scene work and character development.

TAR 211 Special Topics in Theatre (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Variable, check with department

Introduction to specialized theatre areas of study. May be repeated up to 9 hours.

TAR 213 Stage Combat (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 110.

Taught: Variable, check with department

Introduction to stage combat; hand fighting, quarterstaff, broadsword, and rapier and dagger; the stage fight in various periods and styles of dramatic literature.

TAR 225 Musical Theatre Performance I (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Introduction to performance techniques; synthesis of voice, acting, and movement; beginning vocal technique as applied to musical theatre repertoire.

TAR 230 Musical Skills for Musical Theatre Actors II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 130.

Taught: Spring only

Continuation of TAR 130 dealing with more advanced challenges in musical theatre repertoire.

TAR 235 Vocal Techniques for the Actor I (1 credit)

Hours: 1 classroom + 0 lab/studio

Taught: Fall only

Private instruction focusing on viable methods for healthy musical theatre singing. May be repeated for credit (Musical Theatre B.F.A. students must repeat for credit).

TAR 245 Introduction to Theatre in World Cultures (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Through the reading and analyzing of scripts and other texts, learners will be encouraged to recognize and analyze ethical issues and actions while examining the socio-political, economic and historical conditions from which diversity both emerges and converges.

TAR 260 Lighting Fundamentals (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 160.

Taught: Fall only-even years

Practical exploration of the scientific principles and theories and practices of stage lighting, including electricity, optics, color theory, dimming and control systems.

TAR 262 Costume Construction (2 credits)

Hours: 2 classroom + 0 lab/studio

Co-requisites: TAR 262L.

Taught: Fall only

Basic principles of costume building with opportunities for practical application in preparing costumes for university productions.

TAR 262L Costume Construction Laboratory (1 credit)

Hours: 0 classroom + 2-4 lab/studio

Co-requisites: TAR 262.

Taught: Fall only

Practical application of skills and techniques acquired in TAR 262.

TAR 265 Fundamentals of Theatrical Design (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only-odd years

Basic elements of design for theatre scenery, props, costumes, sound, and lighting; principles of aesthetics, script analysis, methods of research, development of visual concepts, graphic representations, and final evaluations.

TAR 277 Fundamentals of Sound Technology (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 160.

Taught: Fall only-even years

Sound reinforcement and sound production for the theatre; basic acoustics, audio components, terminology, recording/assembly techniques, and digital technology; skills necessary to mix sound and to troubleshoot sound systems.

TAR 310 Acting III (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 210.

Taught: Spring only

Advanced acting techniques and considerations; detailed scene analysis and repertory building.

TAR 311 Auditions (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: at least two acting/ dance courses.

Taught: Variable, check with department

Specialized techniques necessary for actors to relate to the auditioning experience; building an appropriate repertory of material, preparing the resume, and developing the "persona."

TAR 312 Voice Development for the Actor II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 114.

Taught: Spring only

Advanced speech development techniques and exercises as applied in performance situations; advanced work in Oral Interpretation and Readers Theatre.

TAR 314 Stage Dialects (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 114, TAR 312 and TAR 110.

Taught: Variable, check with department

Methods of producing convincing accents and dialects as an element of vocal characterization. Dialects studied may include: Standard British, Irish, Scottish, Cockney, French, German, American Southern, New York, and New England.

TAR 316 Acting Seminar I (3 credits)

Hours: 2 classroom + 4 lab/studio

Prerequisites: TAR 310.

Taught: Variable, check with department

Advanced acting coaching and repertory building; scene analysis and character work in relatively small groups for advanced students who have completed preliminary acting training. May be repeated for credit.

TAR 325 Musical Theatre Performance II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 225.

Taught: Spring only

Development of musical theatre repertoire for audition, study, and performance; synthesis of voice, acting, and movement; various musical theatre genres and historical styles.

TAR 335 Vocal Techniques for the Singing Actor II (1 credit)

Hours: 1 classroom + 0 lab/studio

Taught: Spring only

Continuation of TAR 235 with a focus on expansion of repertoire and styles. May be repeated for credit. (Musical Theater B.F.A. must repeat for credit).

TAR 340 Playscript Analysis (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Systems of interpretation applicable to all types of dramatic literature necessary to production of plays and relevant for directors, actors, designers, and other practitioners.

TAR 343 Costume History (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 100 or TAR 101, and TAR 160 or consent of instructor.

Taught: Fall only-odd years

Costume history from antiquity through the modern period as applied to production design; methods and courses of research for design in theatre.

TAR 346 Theatre History (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Development of the theatre from its beginnings to the present. Study of theatre arts and cultural institutions with a focus on historical context for plays and performances.

TAR 347 Dramatic Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

A study of the art of dramatic writing that examines representative world theatre texts, along with their cultural and historic context.

TAR 348 Theatre History and Society (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 or equivalent.

Taught: Variable, check with department

Survey of major historical developments in theatre and dramatic literature from pre-Greek times to the 20th century. Focus is placed on how society, culture and politics influence theatre production and vice versa. Does not satisfy degree requirements for theatre majors or minors. Available for registered Organizational Leadership majors only.

TAR 355 Musical Theatre Literature I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101.

Taught: Variable, check with department

American musical theatre literature from late 19th century to mid-20th century; musical and dramatic movements that created American musical theatre.

TAR 360 Scene Design I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 160 and TAR 265.

Taught: Fall only-even years

Principles of design related to stage scenery; historical modes of stage design; 20th century stage decoration.

TAR 361 Design and Construction of Stage Properties (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 160 and TAR 265.

Taught: Fall only-odd years

Design skills and building techniques involved in props and effects for the stage.

TAR 362 Drafting For Theatre (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 160.

Taught: Variable, check with department

A lecture/project class that teaches the basic techniques and practices of drafting for the theatre. Projects require students to create typical working drawings for theatre productions utilizing industry standards. This course covers the use of mechanical and computer based techniques.

TAR 363 Lighting Design (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 260.

Taught: Fall only-even years

A lecture/project course exploring art and science of theatrical lighting design. Projects teach students the mechanics and creative processes and theories used in creating lighting designs for the theatre.

TAR 364 Computer Graphics for the Stage (3 credits)

Hours: 2 classroom + 1 lab/studio

Prerequisites: TAR 160.

Taught: Spring only-odd yrs

Introduction to commonly used graphic and rendering programs. Exploration of projections, projectors and their use in theatre productions.

TAR 365 Costume Crafts (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 260 and TAR 265.

Taught: Variable, check with department

A lecture/project course exploring art and science of theatrical lighting design. Projects teach students the mechanics and creative

processes and theories used in creating lighting designs for the theatre.

TAR 366 Costume Design I (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 368 or consent of instructor; TAR 265. TAR 343 recommended.

Taught: Fall only-even years

Application of principles of design to stage costuming; fabrics, figure drawing, and characterization.

TAR 367 Stagecraft II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 160.

Taught: Variable, check with department

Advanced techniques and practices used in the construction and application of stage scenery. Topics include budgeting, welding, theatre machinery and equipment, shop organization, and advanced construction techniques.

TAR 368 Theatrical Rendering and Model Building (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 160.

Taught: Variable, check with department

Techniques employed in sketching and preparing drawings for scenic and costume designs and in constructing models for scenic design.

TAR 370 Directing (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 110 and TAR 160.

Taught: Fall only

Basic principles of play directing, play selection, casting, and rehearsal; direction and presentation of selected scenes in class.

TAR 371 Theatre Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 160.

Taught: Spring only

Duties and responsibilities of those entrusted with areas like house management, public relations, and publicity in theatre activities.

TAR 376 Stage Management (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 160.

Taught: Fall only

Duties and responsibilities of the theatrical stage manager.

TAR 377 Sound Design (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 227 and TAR 265.

Taught: Fall only-odd years

Design and aesthetic concerns, design process and techniques; playscript analysis, artistic and aesthetic choices, integrating music collaborative process; developing a common dialogue with the director and design team; sound

graphics and design documentation including signal flow and system design.

TAR 380 Playwriting (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Art and craft of writing dramatic material for stage presentation.

TAR 390 Production Credits (1 credit)

Hours: 0 classroom + 2-4 lab/studio

Prerequisites: TAR 160.

Taught: Fall, spring, and summer

Preparing for participation in college dramatic activities. May be repeated for a maximum of eight semester hours, all of which must be earned through active technical involvement of performances.

TAR 391 Production Credits (1 credit)

Hours: 0 classroom + 2-4 lab/studio

Prerequisites: TAR 160.

Taught: Fall, spring, and summer

Preparing for participation in college dramatic activities. May be repeated for a maximum of eight semester hours, all of which must be earned through active technical involvement of performances.

TAR 400 Theatre in World Cultures Styles Studio (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Theatre is a potent political and cultural vehicle for conveying the multifaceted perspectives of various minority groups in the Americas and the world. Through the analyzing, and performing of scripts and texts, learners will begin to recognize/analyze ethical issues while examining the socio-political, economic and historical conditions from which diversity emerges.

TAR 410 Styles of Acting (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 310.

Taught: Variable, check with department

Major acting styles; practical application through presentation and evaluation of representative sciences and excerpted materials.

TAR 411 Special Problems: Theatre Acting (3-9 credits)

Hours: 3-9 classroom + 0 lab/studio

Prerequisites: TAR 310.

Taught: Variable, check with department

Opportunity for additional advanced work in the theatre student's area of concentration; multiple opportunities for performing artist's involvement in electives in specific areas of interest.

TAR 412 Internship: Professional Theatre (3-6 credits)

Hours: 3-6 classroom + 0 lab/studio

Prerequisites: permission of the chair of theatre.

Taught: Fall and spring

Opportunities for outstanding students in theatre to accept apprenticeships carrying significant responsibilities in major professional theatre operations. The work will be coordinated with a theatre faculty adviser.

TAR 413 Oral Interpretation of Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 114.

Taught: Variable, check with department

Principles of Oral Interpretation and Readers Theatre styles with focus upon techniques and exercises as applied in a variety of performance situations.

TAR 414 NKU Tour Group (1-3 credits)

Hours: 0 classroom + 2-6 lab/studio

Prerequisites: audition.

Taught: Fall and spring

Touring performance troupes designed to represent the University in functions around the state and region. May be repeated for credit.

TAR 415 One Person Show (3 credits)

Hours: 1 classroom + 3 lab/studio

Prerequisites: TAR 310 or consent of instructor.

Taught: Variable, check with department

An introduction to the genre of the one-person show. The course covers the various forms of monodrama. Students will create an outline for a full-length solo show and write and present an excerpt from it in performance.

TAR 416 Acting Seminar II (2-6 credits)

Hours: 2 classroom + 4 lab/studio

Prerequisites: TAR 310.

Taught: Variable, check with department

Advanced acting coaching and repertory building. Small group work for advanced students who have completed preliminary acting training. May be repeated for credit.

TAR 417 Acting Shakespeare (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 310 or consent of instructor.

Taught: Fall only-odd years

Basic techniques for performing Shakespeare; practical application through ongoing scene work culminating in a one-person presentation of material from Shakespeare's plays and sonnets.

TAR 418 Process and Production (4 credits)

Hours: 4 classroom + 0 lab/studio

Prerequisites: TAR 110 and TAR 210 and TAR 310 and consent of instructor.

Taught: Variable, check with department

Rehearsal and presentation of a play for an audience within the framework of a laboratory/studio environment. Various rehearsal methods are explored, along with an in-depth examination of the play's literary, historical, and performance background. May be repeated for a maximum of 8 hours.

TAR 425 Musical Theatre Performance III (2-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 325 and consent of instructor.

Taught: Variable, check with department

Continuation of TAR 325; advanced techniques in specific areas of musical theatre performance including topical revue, auditioning, solo shows, and musical scenes.

TAR 441 Special Problems in Theatre and Criticism (3 credits)

Hours: 3-6 classroom + 0 lab/studio

Prerequisites: Two TAR Group III courses or consent of instructor.

Taught: Variable, check with department

See TAR 411.

TAR 442 Dramatic Theory and Criticism (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: consent of instructor.

Taught: Variable, check with department

Major documents in dramatic theory and criticism from Plato and Aristotle to the present.

TAR 443 History of Costume and Décor II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 343 or consent of instructor.

Taught: Variable, check with department

Architectural, interior design, costume, and furniture history from Rococo through contemporary as applied to production design; methods and sources of research for design in theatre.

TAR 446 History of the Theatre and Dramatic Literature III (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 346 and TAR 347.

Taught: Fall only

History of significant developments in theatre and dramatic literature from 1875 to present day.

TAR 452 Special Problems: Theatre Literature (3-9 credits)

Hours: 3-9 classroom + 0 lab/studio

Taught: Variable, check with department

Opportunity for additional advanced work in the theatre student's area of concentration; multiple opportunities for performing artist's involvement in electives in specific area of interest.

TAR 455 Musical Theatre Literature II (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

American musical theatre literature from mid-20th century to the present.

TAR 461 Scene Painting (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 160 or consent of instructor.

Taught: Variable, check with department

Practical analysis and application of scene painting skills; materials (paints, dyes, fabrics and equipment).

TAR 464 Special Problems in Theatre Technology (3-9 credits)

Hours: 3-9 classroom + 0 lab/studio

Prerequisites: two TAR Group IV courses or consent of instructor.

Taught: Variable, check with department

Opportunity for additional advanced work in the theatre student's area of concentration; multiple opportunities for performing artist's involvement in electives in specific areas of interest.

TAR 466 Costume Construction II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 262 or consent of instructor.

Taught: Variable, check with department

Advance costume construction techniques, including pattern drafting, cutting, draping; practical application in preparation for university productions.

TAR 470 Directing II (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: TAR 370.

Taught: Variable, check with department

Advance principles of directing; history of directing; problems encountered in directing period plays.

TAR 471 Summer Dinner Theatre (3 credits)

Hours: 0 classroom + 3 lab/studio

Prerequisites: permission of the chair of theatre.

Taught: Summer only

Active participation in major roles, both in performance and technology and in production of a university summer stock theatre operation. May be repeated for credit.

TAR 477 The Business of Theatre (1 credit)

Hours: 1 classroom + 0 lab/studio

Prerequisites: senior status or junior status and consent of instructor.

Taught: Spring only

Practical problems of working in the theatre; resume, union affiliation, use of theatrical agents, and additional professional training.

TAR 481 Special Problems in Theatre: Playwriting/Criticism (3-9 credits)

Hours: 3-9 classroom + 0 lab/studio

Prerequisites: BFA status.

Taught: Variable, check with department

Opportunity for additional advanced work in student's area of concentration; multiple opportunities for performing artist's involvement in electives in specific areas of interest.

TAR 482 Screenwriting (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: ENG 101 and ENG 291, or ENG 151H; TAR 340 recommended.

Taught: Spring only

Introduction to the elements of film script production and techniques involved in writing for the screen. Same as ENG 431.

TAR 490 Production Credits (1 credit)

Hours: 0 classroom + 2-4 lab/studio

Prerequisites: TAR 160.

Taught: Fall, spring, and summer

Preparing for participation in college dramatic activities. May be repeated for a maximum of eight semester hours, all of which must be earned through active technical involvement of performances.

TAR 491 Production Credits (1 credit)

Hours: 0 classroom + 2-4 lab/studio

Prerequisites: TAR 160.

Taught: Fall, spring, and summer

Preparing for participation in college dramatic activities. May be repeated for a maximum of eight semester hours, all of which must be earned through active technical involvement of performances.

TAR 495 Senior Project (1 credit)

Hours: 0 classroom + 2-4 lab/studio

Prerequisites: senior BFA status.

Taught: Fall and spring

Individual senior project in theatre required for BFA students. Projects authorized, supervised, and graded by individually appointed faculty. Written agreement between student and faculty member must be submitted to chair before registration.

TAR 496 Theatre In World Cultures Capstone (2-4 credits)

Hours: 0 classroom + 2-4 lab/studio

Prerequisites: TAR 245, TAR 348, TAR 400 and completed one study abroad course.

Taught: Variable, check with department

The World Cultures and Theatre Capstone experience allows students to explore an independent project under the close supervision of a faculty member. The project may take many forms, from a research paper to a creative project. The Capstone project should reflect intellectual rigor and a serious pursuit of excellence.

TAR 498 Individual Studies in Theatre (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Individual creative or research projects in one or more areas: playwriting, directing, acting, dance, stagecraft, scene design, costume design, lighting design, sound design, or theory/criticism. Projects directed by TAR faculty must be approved prior to registration. A maximum of 6 semester hours of individual studies may be applied toward a major in theater arts.

TAR 499 Individual Studies in Theatre (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Individual creative or research projects in one or more areas: playwriting, directing, acting, dance, stagecraft, scene design, costume design, lighting design, sound design, or theory/criticism. Projects directed by TAR faculty must be approved prior to registration. A maximum of 6 semester hours of individual studies may be applied toward a major in theater arts.

TAR 580 Adv. Studies in the Art of Playwriting (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Department permission.

Taught: Variable, check with department

Intensive exploration of playwriting theory, approach, creativity, and style. Focus on developing the individual playwright's method and practice through creation of drama, research, and engagement with the theater community.

TAR 582 Adv. Studies in the Art of Screenwriting (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Advanced exploration of the elements and techniques of film production and screenwriting. Focus on style and form; camera, geography, staging, balance, timing, and rhythm;

business analysis of films and screenplays; and role of the screenwriter and other personnel.

TAR 599 Advanced Individual Studies in Theatre (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: Graduate Standing or Consent of Department.

Taught: Variable, check with department

Individual creative or research projects in one or more areas: playwriting, directing, acting, dance, stagecraft, scene design, costume design, lighting design, sound design, dramaturgy or theory/criticism. Projects directed or mentored by TAR faculty must be approved prior to registration.

University Programs Courses (UNV)**UNV 101 Orientation to College and Beyond (1-3 credits)**

Hours: 3 classroom + 0 lab/studio

Prerequisites: Freshman standing or department approval.

Taught: Fall and spring

Emphasis on transition into College and development of college survival skills, development of student self-reliance as an active participant in classroom activities, familiarization with available university resources and establishment of learning communities within the University.

UNVI 101 International Orientation (1-3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Department consent.

Taught: Fall and spring

Emphasis on transition into College and development of college survival skills, development of student self-reliance as an active participant in classroom activities, familiarization with available university resources and establishment of learning communities within the University.

UNV 301 University 101 Teaching Internship (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Junior standing; minimum GPA of 3.0; 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.

Women's and Gender Studies Courses (WGS)

WGS 150 Introduction to Contemporary Gender Issues - SB (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall, spring, and summer

Uses gender as a lens to analyze: the social, political, economic, cultural, and personal conditions of people in multi-ethnic societies; the complex ways of the social construction of gender; and the interaction of gender, race, sexuality, and class on the diversity of peoples' experiences within the United States and globally; and how our understanding of those experiences informs our understanding of cultures as a whole and our place in them.

General education credit: Cultural Pluralism

WGS 150H Honors Introduction to Women's Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Interdisciplinary and cross-cultural readings on social, political, economic and personal condition of women in multi-ethnic society; complex ways of social construction of gender; interaction of gender, race, an class on women's lives.

General education credit: Cultural Pluralism

WGS 250 Introduction to Gender Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Introduction to gender analysis as a way of addressing gender and gender inequality as cultural phenomena. The diversity of peoples' experience and how our understanding of those experiences informs our understanding of the culture as a whole and our place in it.

WGS 310 Women, Wages, and Work (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: sophomore standing.

Taught: Fall, spring, and summer

Interdisciplinary and multicultural examination of impact of gender, race, sexual orientation, and class on working women in the U.S.; past and present status of women's wages and opportunities; relationships between working women and their employers; cooperation and competition among working women from diverse backgrounds.

WGS 317 Gender and Communication (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Principles, concepts and characteristics defining gendered communication. This course will enhance understanding of the elements key to successful communication across genders, whether they are business, personal, social,

familial, or intimate. The role of socialization in gendered development will also be explored. Same as CMST317. Students may not receive credit for both.

WGS 350 Perspectives in Feminist Theory (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: WGS 150 or WGS 250 or consent of the instructor.

Taught: Spring only-even yrs

Feminist theories from different disciplinary perspectives (e.g. feminist philosophy, feminist literary theory, feminist history, feminist art theory). May be repeated for credit when topics vary.

WGS 381 Women In Literature (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Advanced readings and discussion of literary works by women or images of women in literature. May be repeated for credit when subjects differ.

WGS 382 Women and Society (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Readings and discussion in the general areas of women's contributions to major historical events, the history of women, or women's part in social movements or groups. May be repeated for credit when subjects differ.

WGS 383 Women and World Cultures (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall only

Readings and discussion of the roles of women in individual world cultures; women's particular cultures in history or the challenges to women in the cultures of their careers in the modern world. May be repeated for credit when subjects differ.

WGS 384 Women, Nature, and the Inner Self (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Philosophical, spiritual or psychological aspects of women's lives and senses of identity; women caring for the environment; particular achievements by and challenges to women in the sciences and mathematics. May be repeated for credit when subjects differ.

WGS 385 Gender and Film (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing.

Taught: Variable, check with department

Students will analyze depictions of gender in film. Topics vary by instructor. May be repeated for credit when topics vary.

WGS 386 Women in the Bible (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: Sophomore standing.

Taught: Variable, check with department

The course provides a thematic feminist introduction to Women in the Bible through, and help students develop the critical skills needed to analyze and interpret primary and secondary sources.

WGS 388 African-American Women's History and Culture (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Spring only-even yrs

This discussion-oriented course is a history of African-American women that begins by examining African women and their cultures prior to European contact and ends with a look at women in the Civil Rights Movement.

WGS 394 Topics: Women's and Gender Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Interdisciplinary and intensive study of a specific and significant topic in women's and gender studies. Topics vary from semester to semester. May be repeated for credit when subjects differ. See Schedule of Classes for current topic and prerequisites.

WGS 444 History of Women in the United States to 1900 (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Fall and spring

Women's role in U.S. economic, social, political, and cultural development until 1900; participation of women in historical eras from earliest societies through industrialization as experienced in diverse ways depending on racial, ethnic, class, and regional differences.

WGS 494 Seminar: Women's and Gender Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: completion of one women's and gender studies course.

Taught: Spring only-odd yrs

Theory and research practices characterizing women's and gender studies and their effect on traditional academic disciplines; designing research projects. Information and methodology from each discipline presented by women's studies faculty.

WGS 499 Independent Study: Women's and Gender Studies (1-3 credits)

Hours: 1-3 classroom + 0 lab/studio

Prerequisites: completion of one women's and gender studies course.

Taught: Variable, check with department

Individual creative research, or community service projects directed by faculty members. Written agreement between faculty member

and student must be submitted to director before registration; elements of agreement to include purpose, objectives, and evaluation procedures. May be taken twice for credit.

WGS 594 Topics: Women's and Gender Studies (3 credits)

Hours: 3 classroom + 0 lab/studio

Taught: Variable, check with department

Advanced interdisciplinary study of a specific topic or issue of particular significance to women. May be repeated for credit when subjects differ.

WGS 445 History of Women in the United States since 1900 (3 credits)

Hours: 3 classroom + 0 lab/studio

Prerequisites: HIS 103.

Taught: Fall only-even years

Women's role in U.S. economic, social, political, and cultural development since 1900; participation of women in recent history as experience in diverse ways depending on racial, ethnic, class, and regional differences.

World Languages Courses (WLL)

WLL 400 World Languages Program Assessment (0 credits)

Hours: 0 classroom + 0 lab/studio

Prerequisites: senior standing and permission of department chair.

Taught: Spring only-odd yrs

Required of all world language majors including students pursuing teacher certification in a world language. Assessment procedures and activities are scheduled during the last semester of residence or of graduation. Graded pass/fail.

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- Almquist, Arne J.**, Associate Professor, Library Science, (2001); Ph.D., University Of North Texas, 2006; MS, University Of North Texas, 1992; MFA, State University of NY-Buffalo, 1982; BA, State University of NY-Buffalo, 1980; BFA, State University of NY-Buffalo, 1980.
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- Arrighi, Barbara A.**, Professor, Sociology, (1989); Ph.D., University of Cincinnati, 1991; MS, University of Cincinnati, 1986; BS, University of Cincinnati, 1982.
- Asare, Matthew**, Assistant Professor, Kinesiology, (2010); Ph.D., University of Cincinnati, 2011; MA, Ohio University, 2001; MBA, Ohio University, 2000.
- Atkinson, Pamela S.**, Lecturer, Business Informatics, (2011); MS, Northern Kentucky University, 2001.
- Attenweiler, William J.**, Associate Professor, Psychology, (2002); Ph.D., Clemson University, 2002; MS, Clemson University, 2000; BA, University of Maine, 1975.
- Bailey, Rebecca J.**, Associate Professor, History, (2006); Ph.D., West Virginia University, 2001; MA, West Virginia University, 1990; BA, College Of William And Mary, 1988.
- Baldrige, Hildegard A.**, Lecturer II, Biology, (1996); Ph.D., University of Kentucky, 1983.
- Ball, Pamilla J.**, Lecturer, Chemistry, (2005); Ph.D., University of Cincinnati, 2005; BS, University of Cincinnati, 2001; BS, University of Cincinnati, 2000.
- Baran, Benjamin E.**, Assistant Professor, Management, (2011); Ph.D., University of North Carolina, 2011; MA, University of North Carolina, 2009; BA, Villanova University, 2002; BA, Villanova University, 2002.
- Baranowski, Michael K.**, Associate Professor, Political Science, (2001); Ph.D., University of Kentucky, 1997; MA, University of Kentucky, 1996; BA, Baldwin-Wallace College, 1992.
- Bardgett, Mark E.**, Professor, Psychology, (2000); Ph.D., University of Missouri-St Louis, 1991; MA, University of Missouri-St Louis, 1989; BA, University of Missouri-St Louis, 1986.
- Bartlett, Robin M.**, Associate Professor, Psychology, (2000); Ph.D., West Virginia University, 2000; MA, West Virginia University, 1997; BA, West Virginia University, 1993.
- Baxter, Thomas**, Lecturer, Nursing, (2012); Ph.D., Walden University, 2011; MA, Clemson University, 1994; BS, University of Cincinnati, 1988.
- Belland, Diana D.**, Professor, Music, (1981); DMA, Ohio State University, 1978; MM, Ohio State University, 1972; BS, The Juilliard School, 1968.
- Bennett, Donna S.**, Professor, Library Science, (1979); MA, University of Tennessee-Knoxville, 1974; MLS, University of Kentucky, 1970.
- Bergman, Kathy B.**, Lecturer II, Nursing, (2008); MSN, University of Cincinnati, 1978; BSN, Syracuse University, 1976.
- Bertog, Janet L.**, Associate Professor, Geology, (2003); Ph.D., University of Cincinnati, 2002; MS, South Dakota School of Mines, 1997; BS, South Dakota School of Mines, 1995.
- Bickers, John M.**, Professor, Law and Legal Studies, (2006); LLM, Georgetown University, 2003; LLM, Judge Advocate General's School (Army), 1999; JD, University of Michigan Law School, 1991.
- Billings JR, Roger D.**, Professor, Law and Legal Studies, (1972); JD, University of Akron, 1969; BA, Wabash College, 1959.
- Bills, Patricia**, Assistant Professor, Education, (2013); Ph.D., Michigan State University, 2013; MAED, University of Michigan-Ann Arbor, 1997.
- Birkenhauer, Matt E.**, Lecturer, English, (1996); MA, University of Kentucky, 1986; BA, Thomas More College, 1981.
- Bishop, David M.**, Professor, Education, (1977); Ed.D., Suny College-Buffalo, 1982; M.Ed., University Of Vermont, 1973; BS, University of Rochester, 1968.
- Bishop, Paul D.**, Associate Professor, Psychology, (1975); Ph.D., Ohio University, 1972; MS, Ohio University, 1968; BA, Lewis & Clark College, 1965.
- Bloch, Janel M.**, Assistant Professor, English, (2008); Ph.D., Iowa State University, 2000; MA, Miami University Oxford, 1997; MBA, Indiana University System, 1987; BBA, University of Wisconsin-Eau Claire, 1985.
- Block, Matthew**, Lecturer, Physics, (2013); Ph.D., University of California-Santa Barbara, 2011; MA, University of California-Santa Barbara, 2009.
- Boateng, Samuel**, Associate Professor, Geology, (2001); Ph.D., University of Missouri-Rolla, 1996; MS, University of Windsor, 1992; BS, University of Science & Tech, 1983.
- Boltz, Sharlene W.**, Professor, Law and Legal Studies, (1991); JD, University of Michigan Law School, 1985; BA, Brown University, 1982.
- Bonner, Nicholas S.**, Lecturer, Art, (1999); MFA, Ohio University, 1981; BFA, Alfred University, 1978.
- Bowers, Nancy L.**, Lecturer, English, (2005); MA, Iowa State University, 2004; BA, Buena Vista University, 1986.

- Bowers, Thomas J.**, Associate Professor, English, (2005); Ph.D., Iowa State University, 2005; MA, University of South Carolina-Columbia, 1999; BA, Cleveland State University, 1997.
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- Brackman, Thomas B.**, Lecturer, Geology, (2005); MS, University of Memphis, 2005; BS, University of Kentucky, 1999.
- Bradtmueller, James P.**, Assistant Professor, Construction Management, (2009); Ph.D., Purdue University, 1992; MS, Purdue University, 1987; BS, Purdue University, 1984.
- Bratcher, Perry R.**, Professor, Library Informatics, (1983); MBA, Northern Kentucky University, 2002; MLS, University of Kentucky, 1983; BM, University of Kentucky, 1980.
- Brauer, Tobias R.**, Associate Professor, Graphic Design, (2003); M.Des., University of Cincinnati, 2003; BFA, Art Academy of Cincinnati, 1998.
- Braun, Frank C.**, Assistant Professor, Business Informatics, (2000); Ph.D., Case Western Reserve University, 2007; MBA, Xavier University, 1986; BS, Miami University Oxford, 1981.
- Bredemeyer, Carol A.**, Professor, Library Science, (1978); MLS, University of Kentucky, 1981; AB, Morehead State University, 1978.
- Breitenbecher, Kimberly A.**, Associate Professor, Psychology, (2001); Ph.D., Ohio University, 1995; MS, Ohio University, 1992; BA, Miami University Oxford, 1990.
- Bresser, Wayne J.**, Associate Professor, Physics, (1992); Ph.D., University of Cincinnati, 1986; MS, University of Cincinnati, 1980; BA, Thomas More College, 1977.
- Britt, Heather**, Lecturer, Dance, (2008);
- Brittingham, Joshua L.**, Lecturer, Education, (2008); M.Ed., Wright State University, 2007; BA, Capital University, 2003.
- Brock, Kristi S.**, Lecturer, English, (2001); MA, University of Cincinnati, 2001; BA, Northern Kentucky University, 1988.
- Brockmeier IV, Frederick**, Lecturer, Organizational Leadership, (2004); Ph.D., Union Institute & University, 2004; MA, US Naval War College, 1988; JD, University of Cincinnati, 1975; BA, University of Cincinnati, 1969.
- Broering, Janis R.**, Lecturer, Mathematics, (1982); MS, Ohio State University, 1971; BA, Thomas More College, 1969.
- Brooks, Andrea W.**, Lecturer, Library Science, (2010); MLS, Kent State University, 2009.
- Browning, Deborah L.**, Lecturer, Accounting, (2013); MACC, University of Indianapolis, 1998.
- Bruins, Connie**, Lecturer, Geography, (2000); Ph.D., University of Cincinnati, 2005; MA, Miami University Oxford, 1982; BA, Malone College, 1979.
- Buckley, Brooke E.**, Associate Professor, Statistics, (2006); Ph.D., University of South Carolina-Columbia, 2006; BS, Eastern Kentucky University, 2001.
- Bucklin, Mary L.**, Lecturer, Women and Gender Studies, (1996); Ed.D., University of Cincinnati, 2010; MA, University of Iowa, 1995; MS, Indiana University System, 1984; BS, Iowa State University, 1975.
- Burchell, Justine**, Lecturer, (2012); MLS, University of Wisconsin Colleges, 2012.
- Bush, Michael**, Assistant Professor, Criminal Justice, (2009); Ph.D., Indiana University of Pennsylvania, 2009; MA, East Tennessee State University, 2004; BS, East Tennessee State University, 2001.
- Cain, Shelley T.**, Lecturer, Mathematics, (1999); MA, University of Kentucky, 1999; BS, Northern Kentucky University, 1997.
- Callis, April**, Lecturer, Anthropology, (2012); Ph.D., Purdue University, 2011; MA, University of Kentucky, 2004.
- Campan, Alina**, Assistant Professor, Computer Science, (2007); Ph.D., Babes-Bolyai University, 2006; MS, Babes-Bolyai University, 2000; BS, Babes-Bolyai University, 1999.
- Campbell, Nancy F.**, Associate Professor, Library Science, (1981); MS, University of Kentucky, 1977.
- Cangioni, Carole L.**, Assistant Professor, Entrepreneurship, (2011); Ph.D., The University of Texas At El Paso, 2011; MBA, University of Richmond, 1996; BBA, American Business School in Paris, 1993; DTA, Toulon Institute of Technology, 1991; DUT, Valence Institute of Technology, 1990.
- Carmen, John**, Assistant Professor, Biology, (2013); Ph.D., University of Kentucky, 2007.
- Carnes, Kathleen A.**, Lecturer, Business Law, (2011); JD, University of Cincinnati, 2001; BA, University of Louisville, 1998.
- Carrell, Michael R.**, Professor, Management, (1998); DBA, University of Kentucky, 1976; MBA, University of Louisville, 1972; BA, University of Louisville, 1970.
- Cassiere, Janis M.**, Lecturer, Religious Studies, (1983); MAT, Athenaeum of Ohio, 1996; BA, Edgecliff College, 1965.
- Cata, Teuta**, Associate Professor, Business Informatics, (2003); Ph.D., University of Nebraska At Lincoln, 2003; MBA, University of Nebraska At Lincoln, 1998; BS, University of Tirana, 1990.
- Cellio, Jennifer**, Assistant Professor, English, (2009); Ph.D., Miami University Oxford, 2008; MA, University of Idaho, 2000; BA, Miami University Oxford, 1997.
- Chamberlain, Ronnie J.**, Assistant Professor, Theatre, (2013); MFA, University of Alabama, 2007; BA, Colorado State University, 2004.
- Chavez, Anthony**, Associate Professor, Law and Legal Studies, (2009); JD, Yale University, 1986; BS, Loyola Marymount University, 1982; LL.M., Vermont Law School.
- Chesnut, Mary T.**, Associate Professor, Library Science, (1988); MLS, University of Kentucky, 2002; BA, Centre College, 1985.
- Chevalier, Kerry**, Assistant Professor, Counseling & Human Services, (2011); Ph.D., Ohio University, 2005; M.Ed., Ohio University, 1995.
- Childs Ph.D., David J.**, Assistant Professor, Education, (2012); Ph.D., Miami University Oxford, 2009; MA, Miami University Oxford, 2008; MAT, Miami University Oxford, 2005; BFA, College Of Mount St. Joseph, 2000.
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- Clayton-Code, Kimberly P.**, Professor, Education, (2001); Ph.D., University of Louisville, 2002; MA, Northern Kentucky University, 1995; BS, Purdue University, 1994.
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Din Allameh, Seyed M. D., Associate Professor, Engineering Technology, (2004); Ph.D., Ohio State University, 1993; MS, Wayne State University, 1988; BS, Sharif Institute Of Technology, 1978.

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tucky University, 2006; BSN, Northern Kentucky University, 2004.

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Edwards, Grant A., Lecturer, Chemistry, (2006); Ph.D., Iowa State University, 2006; BS, Truman State University, 2000.

Edwards, Tom, Assistant Professor, Organizational Leadership, (1976); M.Ed., University of Cincinnati, 1978; BS, University of Cincinnati, 1976.

Eippert, Gary, Senior Lecturer, Kinesiology, (1996); Ph.D., University of Toledo, 1994; M.Ed.,

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Elliott, Teresa L., Associate Professor, Business Law, (2003); JD, University of Kentucky, 1990; BA, Northern Kentucky University, 1987.

Elliott, Willie L., Associate Professor, Social Work, (1989); D.Min., Ashland University, 1989; MSW, University of Kentucky, 1973; BA, Kentucky State University, 1971.

Ellis, Allen W., Professor, Library Science, (1985); MLS, Indiana University System, 1984; BA, Wright State University, 1978.

Ellis, Paul G., Senior Lecturer, English, (1982); MA, University of Cincinnati, 1976.

Encarnacion, Irene, Lecturer, Spanish, (1991); MA, University of California-Berkeley, 1986; BA, University of Puerto Rico - Central Admi, 1983.

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Farrar, John, Associate Professor, Mathematics, (2013); Ph.D., Vanderbilt University, 2001; MS, Vanderbilt University, 1998; BS, Western Kentucky University, 1992.

Fatemi, Darius J., Assistant Professor, Accounting, (2010); Ph.D., Indiana University, 2007; MBA, Indiana University, 2005; Ph.D., University of Virginia, 1995; BA, University of Virginia, 1990.

Faulkner, Shawn A., Associate Professor, Education, (2004); Ph.D., University of Toledo, 2003; Ed.S., Wright State University, 1998; M.Ed., Wright State University, 1991; BS, Tennessee Temple University, 1988.

Feldmann, Douglas A., Associate Professor, Education, (2005); Ph.D., Indiana University System, 1999; MA, Rockford College, 1995; BA, Northern Illinois University, 1992.

Fennell, Scott K., Lecturer, (1999);

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Fernando, Sharmanthie M., Professor, Physics, (1998); Ph.D., University of Cincinnati, 1999; MS, University of Cincinnati, 1997; MS, University of Cincinnati, 1993; BS, University of Moratuwa, 1991.

Ferrante, Joan, Professor, Sociology, (1984); Ph.D., University of Cincinnati, 1984; MA, University of Cincinnati, 1978; BS, Northern Kentucky University, 1977.

Fields, Gwen M., Senior Lecturer, Chemistry, (1993); MS, University of Cincinnati, 1993; BS, Thomas More College, 1991.

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- Urbanski, Laura**, Lecturer, Mathematics, (2008); MS, Cleveland State University, 1992.
- Valandra, Rodney**, Lecturer, Counseling & Human Services, (2011); MA, Xavier University, 2004; BA, Northern Kentucky University, 2001; Ph.D., University of Kentucky.
- Valauri, John T.**, Professor, Law and Legal Studies, (1982); JD, Harvard University, 1975.
- Van Loveren Geis, Candice N.**, Lecturer, Art Education, (2006); MA, University of Cincinnati, 2004; BFA, University of Cincinnati, 2002.
- Vance, Sharon A.**, Associate Professor, History, (2006); Ph.D., University of Pennsylvania, 2005; BA, University of California-Berkeley, 1990.
- VanPelt, Michael**, Lecturer, (2008); MM, Bowling Green State University, 2007; BM, University of Cincinnati, 2004; DMA, University of Cincinnati.
- Vise, Kristina E.**, Lecturer, Sociology, (2000); MA, University of Cincinnati, 2000; BS, Northern Kentucky University, 1998.
- Voelker, Judy C.**, Associate Professor, Anthropology, (2004); Ph.D., SUNY, 2002; MA, SUNY, 1994; MBA, Columbia University-New York, 1977; BA, Barnard College, 1974.
- Vogelpohl, Rachele**, Assistant Professor, Athletic Training, (2011); Ph.D., University of Hawaii-Manoa, 2011; MS, University of Hawaii-Manoa, 2009; BS, Northern Kentucky University, 2006.
- Vogler, Karl J.**, Lecturer, Physics, (1998); Ph.D., University Of Wyoming, 1994; BS, University Of Wyoming, 1984.
- Votruba, James C.**, Professor, Educational Leadership, (1997); Ph.D., Michigan State University, 1974; MA, Michigan State University, 1970; BA, Michigan State University, 1968.
- Wagner, Barbara J.**, Assistant Professor, Law and Legal Studies, (2012); JD, Columbia University-New York, 1981; MSBA, Boston University, 1977; BA, Yale University, 1973.
- Wakefield, Monica L.**, Assistant Professor, Anthropology, (2013); Ph.D., Yale University, 2010; BS, Humboldt State University, 1998.
- Walden, James W.**, Associate Professor, Computer Science, (2005); Ph.D., Carnegie Mellon University, 1997; MS, Carnegie Mellon University, 1994; BS, Miami University Oxford, 1992.
- Walker, Stephen C.**, Professor, Education, (1988); Ed.D., Ball State University, 1987; MAED, University of Evansville, 1980; BS, Ball State University, 1973.
- Wallace, Robert K.**, Professor, English, (1972); Ph.D., Columbia University-New York, 1972; MA, Columbia University-New York, 1967; BA, Whitman College, 1962.
- Walters, Keith A.**, Associate Professor, Chemistry, (2002); Ph.D., University of Florida, 2000; BS, Furman University, 1996.
- Walters, Lindsey A.**, Assistant Professor, Biology, (2010); Ph.D., Michigan State University, 2008; BS, Calvin College, 2003.
- Walton, Gary**, Associate Professor, English, (1987); Ph.D., George Washington University, 1991; M.Phil., George Washington University, 1985; MS, University of South Dakota, 1982; BA, Northern Kentucky University, 1981.
- Wang, Hongmei**, Associate Professor, Computer Science, (2007); Ph.D., Pennsylvania State Univ-Penn State, 2007; MS, Chinese Academy of Science, 1997; BS, Changchun College of Geology, 1994.
- Ward, Jeffrey A.**, Associate Professor, Computer Science, (2004); Ph.D., Ohio State University, 2004; MS, Ohio State University, 1988; MS, Ohio State University, 1987; BA, Northern Kentucky University, 1984; BS, Northern Kentucky University, 1984.
- Ward, Smitta D.**, Lecturer, Psychology, (2012); Ph.D., Purdue University, 1996; MS, Purdue University, 1991; BA, Northern Kentucky University, 1987.
- Wasan, Sonia**, Assistant Professor, Accounting, (2009); Ph.D., Louisiana State University & Agricultura, 2006; MA, University Of Delhi, 1998; BA, Jesus and Mary College, 1990.
- Wasburn-Moses, Jered**, Lecturer, Mathematics, (2010); MS, Purdue University, 2000; BS, Purdue University, 1998.
- Washington, Michael H.**, Professor, History, (1979); Ed.D., University of Cincinnati, 1984; M.Ed., University of Cincinnati, 1974; BS, University of Cincinnati, 1973.
- Wasicsko, Michael M.**, Professor, Educational Leadership, (2005); Ph.D., University of Florida, 1977; M.Ed., University of Florida, 1973; BS, University of Florida, 1971.
- Waters, Michael S.**, Associate Professor, Mathematics, (2004); Ph.D., Ohio University, 2003; MA, Miami University Oxford, 1996; BA, Thomas More College, 1994.
- Watkins, Andrea S.**, Associate Professor, History, (2002); Ph.D., University of Kentucky, 1999; MA, University of Kentucky, 1993; BA, University of Kentucky, 1991.
- Weaver, Rosa L.**, Lecturer, Educational Leadership, (1999); Ed.D., University of Kentucky, 1997; M.Ed., Xavier University, 1972; BS, University of Cincinnati, 1969.
- Webster, Jennifer H.**, Lecturer II, Political Science, (2003); Ph.D., University of Cincinnati, 2012; MS, University of Cincinnati, 2002; BA, East Tennessee State University, 2001.
- Weir (Baranowski), Kimberly A.**, Associate Professor, Political Science, (2003); Ph.D., University of Connecticut, 2003; MA, Villanova University, 1998; BA, Bloomsburg University of Pennsylvania, 1995.
- Weisenbach Keller, Eileen D.**, Associate Professor, Entrepreneurship, (2006); Ph.D., Kent State University, 2005; MBA, University of Chicago, 1992; BS, Indiana University, 1983.
- Weiss, Steven M.**, Professor, Communication, (1994); Ph.D., Temple University, 1980; MA, Temple University, 1977; BA, Temple University, 1976.
- Wells, Gail W.**, Professor, Educational Leadership, (1980); Ed.D., University of Cincinnati, 1981.
- Wells, Michael D.**, Lecturer II, Library Science, (2013); MLS, Kent State University, 2010; BA, Capital University, 2007.
- Wermeling, Linda**, Associate Professor, Social Work, (2003); Ph.D., University of Kentucky, 2006; MSW, University of Kentucky, 1995.
- Wesley, Threasa L.**, Associate Professor, Library Science, (1981); MLS, University of Kentucky, 1979; BA, Western Kentucky University, 1977.

Whiteman, Michael, Professor, Law and Legal Studies, (2002); MLS, Simmons College, 1995; JD, University of Louisville, 1994.

Whitson, Mary K., Associate Professor, Biology, (2003); Ph.D., Duke University, 2001; BS, University of Florida, 1994.

Wideman, Paige, Lecturer II, Art, (1999); MFA, University of Cincinnati, 1999; BFA, Kansas City Art Institute, 1989.

Wiebe, Harold D., Associate Professor, Engineering Technology, (1993); MS, University of Cincinnati, 1966.

Wilcox, Robert W., Associate Professor, History, (1993); Ph.D., New York University, 1992; MA, University of Calgary, 1986; BA, Simon Fraser University, 1979.

Wilkey, Christopher L., Associate Professor, English, (2003); Ph.D., Wayne State University, 2003; MA, University of Dayton, 1996; BA, Northern Arizona University, 1993.

Wilkinson, Steven V., Professor, Mathematics, (1989); Ph.D., Rice University, 1984; BA, University of Tulsa, 1979.

Williams, Diane M., Lecturer, Mathematics, (1992); MS, Case Western Reserve University, 1983; MS, Rensselaer Polytechnic Institute, 1975; BA, Millersville University of Pennsylvania, 1974.

Williams, Jeffrey C., Professor, History, (1972); Ph.D., University Of Edinburgh, 1972; BA, University of California-Berkeley, 1966.

Williams, Natalie, Lecturer, (2012); MA, University of Central Florida, 2008; BA, University of Central Florida, 2001.

Wirtz, Paul J., Associate Professor, Educational Leadership, (2005); Ph.D., George Peabody College, 1976; MS, University of Wisconsin

Colleges, 1972; BA, Marquette University, 1969.

Wood, Wendy, Associate Professor, Library Science, (1988); MLS, Emporia State University, 1988; BA, University of Kansas, 1980.

Workman, Lewis, Associate Professor, Construction Management, (1990); Ed.D., University of Cincinnati, 1997; MS, Eastern Kentucky University, 1981; BS, Eastern Kentucky University, 1972.

Wroughton, Jacqueline, Assistant Professor, Statistics, (2008); Ph.D., University of Nebraska At Lincoln, 2007; MS, University of Nebraska At Lincoln, 2004; BA, Concordia University, 2002; BS, Concordia University, 2002.

Yannarella I, Philip A., Associate Professor, Library Science, (1977); MLS, University of Michigan-Ann Arbor, 1970; MA, Duquesne University, 1967; BA, Youngstown State University, 1964.

Yates, Justin R., Lecturer, Psychology, (2012); MS, University of Kentucky, 2011; BS, Georgia College & State University, 2008.

Yohe, Kristine A., Associate Professor, English, (1997); Ph.D., University of North Carolina, 1997; MA, University of North Carolina, 1988; BA, Emory University, 1984.

Yungbluth, Stephen C., Associate Professor, Communication, (2004); Ph.D., University of Kentucky, 2003; MA, University of Kentucky, 1996; BA, Xavier University, 1994.

Yzenbaard, Caryl A., Professor, Law and Legal Studies, (1975); JD, University of Michigan Law School, 1970.

Zacate, Matthew O., Associate Professor, Physics, (2004); Ph.D., Oregon State University,

1997; MS, Oregon State University, 1993; BS, Truman State University, 1991.

Zachary, Samuel J., Professor, Theatre, (1990); Ph.D., Bowling Green State University, 1984; MA, Bowling Green State University, 1973; BS, Bloomsburg University of Pennsylvania, 1971.

Zai III, Robert L., Associate Professor, Library Science, (2006); MLS, University of Kentucky, 2002; BA, Northern Kentucky University, 1999.

Zarnowski, Roger, Professor, Mathematics, (2013); Ph.D., Indiana University-Bloomington, 1988.

Zeman, Nicholas B., Assistant Professor, Media Informatics, (2011); MS, University of Kentucky, 1997; BA, Auburn University - Auburn, 1995.

Zembrodt, Isabella M., Lecturer, Psychology, (1995); MS, Northern Kentucky University, 2011; MS, University of Kentucky, 1980; BS, Northern Kentucky University, 1978.

Zhang, Xiaoni, Professor, Business Informatics, (2001); Ph.D., University Of North Texas, 2001; MBA, Huron University, 1996; BS, Heibei University Handan College, 1987.

Zimmerman Ph.D., Jeffrey M., Assistant Professor, (2012); Ph.D., University of Klagenfurt, 2011; MBA, University of Klagenfurt, 2009; BA, Miami University Oxford, 2004; BS, Miami University Oxford, 2004.

Zyromski, Brett E., Associate Professor, Counseling & Human Services, (2010); Ph.D., North Carolina State University-Raleigh, 2007; MTh, Houston Graduate School of Theology, 2001; MA, University of North Carolina.

EMERITUS FACULTY

Susan S. Adams, English, 22 years of service

Michael C. C. Adams, History, 25 years of service

Carol B. Allred, Law Library, 19 years of service

Compton Allyn, Management, 18 years of service

Valeria Amburgey, Education, 17 years of service

Barry Andersen, Art/Art History, 35 years of service

Margaret Anderson, Nursing, 18 years of service

Marjorie E. Artzer, Education, 11 years of service

Carole Beere, Psychology, 12 years of service

David Bishop, Teacher Education, 31 years of service

Judith Blackburn, English, 24 years of service

Leon E. Boothe, History, 21 years of service

Mildred Bork, Nursing, 19 years of service

Stephen Boyd, Communication, 37 years of service

Bart Braden, Statistics, 29 years of service

Robert M. Bratton, Law, 22 years of service

Prince Brown, Jr., Sociology and African American Studies, 15 years of service

Rachelle Bruno, Education, 33 years of service

Mary Jeremy Buckman, Nursing, 9 years of service

Margaret Cantrell, Education, 30 years of service

Jerry H. Carpenter, Biology, 34 years of service

K. Kenneth Carter, Education, 30 years of service

Tom Cate, Economics, 38 years of service

Annette Thomas Chavez, Education, 22 years of service

Joy Churchill, Nursing, 21 years of service

James C. Claypool, History, 32 years of service

Donald K. Cobb, Education, 20 years of service

Thomas E. Comte, Management, 13 years of service

Paul Cooper, Construction Management

Yudhister Datta, Accounting, 27 years of service

Sarah H. Dessner, Nursing, 16 years of service

Larry L. Dickson, English, 30 years of service

Frank H. Dietrich II, Statistics, 29 years of service

Patricia A. Dolan, Social Work, 22 years of service

Linda L. Dolive, Political Science, 38 years of service

Sudesh Duggal, Business Informatics, 30 years of service

Gina Foletta, Mathematics, 19 years of service

J. Ronald Gardella, Education, 26 years of service

Mary Gers, Nursing, 16 years of service

Martin G. Giesbrecht, Economics, 11 years of service

Larry A. Giesmann, Biology, 37 years of service

George D. Goedel, Psychology, 27 years of service

Edward P. Goggin, Law, 26 years of service

W. Jonathan Gresham, Music, 26 years of service

W. Jack Grosse, Law, 29 years of service

Gayle Sheard Grout, Music, 35 years of service

LeRoy Gruner, Sociology

Carolyn Hagner, Music

Charles Hawkins, Physics, 33 years of service

Clinton Hewan, Political Science, Criminal Justice and Organizational Leadership, 25 years of service

W. Vernon Hicks, Jr., Chemistry, 37 years of service

William L. Holloway, Management

James F. Hopgood, Anthropology, 30 years of service

MaryCarol Hopkins, Anthropology, 43 years of service

Martin J. Huelsmann, Law, 34 years of service

Sally Jacobsen, English, 26 years of service

Margo Jang, English, 35 years of service

Elaine Jarchow, Education, 7 years of service

William R. Jones, Law

Thomas J. Kearns, Mathematics and Statistics, 32 years of service

Donald R. Kelm, Art/Art History, 23 years of service

Robert J. Kempton, Chemistry, 24 years of service

James W. Kinne, Industrial Education & Technology

Michael Klembara, Mathematics and Statistics, 35 years of service

Philip Koplów, Music, 27 years of service

Vinay Kumar, Chemistry, 38 years of service

Lynn Langmeyer, Marketing, 21 years of service

William M. Lindsay, Management, 32 years of service

Nan Littleton, Social Work, 38 years of service

Ann Schmidt Luggen, Health Professions, 16 years of service

Nancy Dysart Martin, Music, 30 years of service

Rosetta J. Mauldin, Social Work and Human Services

Kamilla M. Mazanec, Law, 28 years of service

Cynthia R. McDaniel, Psychology, 30 years of service

James E. McKenney, Statistics, 30 years of service

William M. McKim, Jr., English, 30 years of service

Michael R. McPherson, Physics, 30 years of service

Roger C. Meade, Education

Nicholas Melnick, Education, 26 years of service

Janet A. Miller, Education, 24 years of service

Peter E. Moore, Mathematics and Statistics

Frances T. Mosser, Nursing

Robert Mullen, Communication, 31 years of service

James H. Niewahner, Chemistry, 40 years of service

Ralph D. O'Brien, Technology, 24 years of service

Linda Olasov, Education, 24 years of service

William R. Oliver, Chemistry, 31 years of service

L. MacKenzie Osborne, English, 39 years of service

David Payne, History, 33 years of service

Charles Pinder, Technology, 10 years of service

Joseph E. Price, English

Thomas C. Rambo, Biology, 34 years of service

Jerald H. Richards, Philosophy, 31 years of service

W. Michael Ryan, History, 28 years of service

Peter Schiff, English, 35 years of service

Phillip H. Schmidt, Mathematics and Statistics, 8 years of service

Fredrick Schneider, Law

Vincent G. Schulte, Psychology, 27 years of service

Gary D. Scott, Business Informatics, 33 years of service

Robert L. Seaver, Law, 24 years of service

Linda J. Sheffield, Education, 25 years of service

David Short, Law, 13 years of service

Raman J. Singh, Geology, 26 years of service

Joe K. Smith, Mathematics

Suzanne Wegener Soled, Education, 7 years of service

Christine B. Stiegler, Construction Management, 28 years of service

William C. Stoll, Psychology

Ralph A. Tesseneer, Psychology

Louis R. Thomas, History, 17 years of service

Michael L. Turney, Communication, 36 years of service

Kathleen S. Verderber, Management

Robert C. Vitz, History, 36 years of service

Ray N. Waggoner, Education, 15 years of service

William S. Wagner, Physics, 22 years of service

Jerry W. Warner, Biology, 30 years of service

Edwin T. Weiss, Jr., Geography, 30 years of service

Donald R. Welti, Psychology

John O. Westlund, Music

Constance Carroll Widmer, Education, 24 years of service

Marian C. Winner, Library Services, 9 years of service

Kristen R. Yount, Sociology, 18 years of service

Tom Zaniello, English, 37 years of service

Rosella C. Zeiser, Nursing

APPENDICES

Advanced Placement (AP)

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

Credit for those areas marked by an asterisk (*) must be coordinated with the chair of the relevant department.

DISCIPLINE	ACCEPTABLE SCORE	COURSE	SEMESTER HOURS
Art, General	3, 4, 5	ART 100 Art Appreciation	3
Art, Drawing	3, 4, 5	ART 131 Basic Drawing	3
Art, Studio 2D	3, 4, 5	ART 132 2-Dimensional Studies/Visual Art	3
Art, Studio 3D	3, 4, 5	ART 133 3-Dimensional Studies/Visual Art	3
Art History	3, 4, 5	ARTH 101 Survey of Western Art I 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/BIO 150L Introduction to Biology I with laboratory OR BIO 120/BIO 120L Understanding the Living World	4 4
Calculus AB*	3	MAT 128 Calculus A --OR-- MAT 112 Applied Calculus	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
Chemistry	3	CHE 120/CHE 120L General Chemistry I with laboratory	4
Chemistry	4, 5	CHE 120/CHE 120L General Chemistry I with laboratory AND CHE 121/CHE 121L General Chemistry II with laboratory	4 4
Chinese Language and Culture	3	CHI 201 Intermediate Chinese I Students who continue their language study at NKU can receive credit for CHI 101 Elementary Chinese I and CHI 102 Elementary Chinese II by completing CHI 202 Intermediate Chinese II and receiving a grade of C- or better	3
Chinese Language and Culture	4, 5	CHI 202 Intermediate Chinese II	3
Computer Science A	3, 4, 5	INF 260/INF 260L Object-Oriented Programming I with laboratory	3 1
English Language/ Composition	3	ENG 101 College Writing	3
English Language/ Composition	4, 5	ENG 101 College Writing AND ENG 291 Advanced College Writing	3 3
English Literature/ Composition	3, 4, 5	ENG 200 Understanding Literature	3
Environmental Science	3, 4, 5	ENV 110 Introduction to Environmental Science and Issues	3
European History	3, 4, 5	HIS 100 History of Europe to 1713 AND HIS 101 History of Europe, 1713 to the Present	3 3
French Language and Culture	3	FRE 201 Intermediate French I Students who continue their language study at NKU can receive credit for FRE 101 Elementary French I and FRE 102 Elementary French II by completing FRE 202 Intermediate French II and receiving a grade of C- or better	3
French Language and Culture	4	FRE 202 Intermediate French II Students who continue their language study at NKU can receive credit for FRE 101 Elementary French I, FRE 102 Elementary French II, and FRE 201 Intermediate French I by completing a FRE 300-level course with a grade of C- or better	3
French Language and Culture	5	FRE 304 French Composition and Conversation Students who continue their language study at NKU can receive credit for FRE 101 Elementary French I, FRE 102 Elementary French II, FRE 201 Intermediate French I, and FRE 202 Intermediate French II by completing a 300-level course or higher with a grade of C- or better	3

German Language and Culture	3	GER 201 Intermediate German I Students who continue their language study at NKU can receive credit for GER 101 Elementary German I and GER 102 Elementary German II by completing GER 202 Intermediate German II and receiving a grade of C- or better	3
German Language and Culture	4	GER 202 Intermediate German II Students who continue their language study at NKU can receive credit for GER 101 Elementary German I, GER 102 Elementary German II, and GER 201 Intermediate German I by completing a GER 300-level course with a grade of C- or better	3
German Language and Culture	5	GER 304 German Composition and Conversation Students who continue their language study at NKU can receive credit for GER 101 Elementary German I, GER 102 Elementary German II, GER 201 Intermediate German I, and GER 202 Intermediate German II by completing a 300-level course or higher with a grade of C- or better	3
Government and Politics – U.S.	3, 4, 5	PSC 100 American Politics	3
Government and Politics – Comp.	3, 4, 5	PSC 102 Comparative Politics	3
Human Geography	3, 4, 5	GEO 100 Global Viewpoints: Geography and the Human Landscape	3
Italian Language and Culture	3	ITA 201 Intermediate Italian I	3
Italian Language and Culture	4, 5	ITA 202 Intermediate Italian II	3
Japanese Language and Culture	3	JPN 201 Intermediate Japanese I Students who continue their language study at NKU can receive credit for JPN 101 Elementary Japanese I and JPN 102 Elementary Japanese II by completing JPN 202 Intermediate Japanese II and receiving a grade of C- or better.	3
Japanese Language and Culture	4, 5	JPN 202 Intermediate Japanese II	3
Latin: Virgil	3, 4, 5	LAT 101 Elementary Latin I	3
Macroeconomics	3, 4, 5	ECO 200 Principles of Macroeconomics	3
Microeconomics	3, 4, 5	ECO 201 Principles of Microeconomics	3
Music	3, 4, 5	MUS 122 Music Theory I AND MUS 124 Aural Skills I AND MUS 125 Aural Skills II	4
Physics B	3	PHY 110 Introduction to Physics with Laboratory	4
Physics B	4	PHY 211 General Physics with Lab I	5
Physics B	5	PHY 211 General Physics with Lab I AND PHY 213 General Physics with Lab II	10
Physics C Mechanical	3 or 4	PHY 211 General Physics with Laboratory I	5
Physics C Mechanical	5	PHY 211 General Physics with Laboratory I OR PHY 220 University Physics with Laboratory I	5 4
Physics C Electricity/Magnetism	3 or 4	PHY 213 General Physics with Laboratory II	5
Physics C Electricity/Magnetism	5	PHY 213 General Physics with Laboratory II OR PHY 222 University Physics with Laboratory II	5 4
Psychology	3, 4, 5	PSY 100 Introduction to Psychology	3
Spanish Language	3	SPI 201 Intermediate Spanish I Students who continue their language study at NKU can receive credit for SPI 101 Elementary Spanish I and SPI 102 Elementary Spanish II by completing SPI 202 Intermediate Spanish II and receiving a grade of C- or better	3
Spanish Language	4	SPI 202 Intermediate Spanish II Students who continue their language study at NKU can receive credit for SPI 101 Elementary Spanish I, SPI 102 Elementary Spanish II, and SPI 201 Intermediate Spanish I by completing a SPI 300-level course with a grade of C- or better	3
Spanish Language	5	SPI 304 Spanish Composition and Conversation Students who continue their language study at NKU can receive credit for SPI 101 Elementary Spanish I, SPI 102 Elementary Spanish II, SPI 201 Intermediate Spanish I, and SPI 202 Intermediate Spanish II by completing a 300-level course or higher with a grade of C- or better	3
Spanish Literature	3	SPI 201 Intermediate Spanish I Students who continue their language study at NKU can receive credit for SPI 101 Elementary Spanish I and SPI 102 Elementary Spanish II by completing SPI 202 Intermediate Spanish II and receiving a grade of C- or better	3

Spanish Literature	4	SPI 202 Intermediate Spanish II Students who continue their language study at NKU can receive credit for SPI 101 Elementary Spanish I, SPI 102 Elementary Spanish II, and SPI 201 Intermediate Spanish I by completing a SPI 300-level course with a grade of C- or better	3
Spanish Literature	5	SPI 304 Spanish Composition and Conversation Students who continue their language study at NKU can receive credit for SPI 101 Elementary Spanish I, SPI 102 Elementary Spanish II, SPI 201 Intermediate Spanish I, and SPI 202 Intermediate Spanish II by completing a 300-level course or higher with a grade of C- or better	3
Statistics	3, 4, 5	STA 212 Statistics for Business Applications I 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

College Level Examination Program (CLEP)

CLEP, a national program of credit by examination administered by the College Board, was adopted at NKU to provide individuals with an opportunity to earn credit by examination. The Office of Testing Services at NKU is a recognized CLEP testing center and provides information about the tests as well as administering them. A grade of pass (P) will be assigned for the successful passage of a CLEP examination. Students are urged to consult their advisors before registering for CLEP exams.

The chart below shows, for each CLEP exam accepted by NKU, the minimum score, the semester credit hours earned with that score, and the equivalent NKU courses. NKU requires submission of an official score report. (The university reserves the right to revise these listings in accord with recommendations from the American Council on Education). Check the university's testing website (<http://testing.nku.edu>) for updates.

EXAMINATION	MINIMUM SCORE	EQUIVALENT NKU COURSES	SEMESTER CREDITS
American Government	50	PSC 100 American Politics	3
American Literature	50	ENG 208 Survey of American Literature I 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
College Mathematics	50	MAT 100T Elective Credit	3
Biology	50	BIO 120/BIO 120L Understanding the Living World with Lab	4
Chemistry (no lab credit awarded)	50	CHE 120 General Chemistry I AND CHE 121 General Chemistry 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 Language	50 - 59	FRE 101 Elementary French I AND FRE 102 Elementary French II Credits are awarded if student takes a 200-level FRE course and earns at least a B-	6
	60+	FRE 101 Elementary French I AND FRE 102 Elementary French II AND FRE 201 Intermediate French I AND FRE 202 Intermediate French II Credits are awarded if student takes a 300-level FRE course and earns at least a B-	12

German Language	50 - 59	GER 101 Elementary German I AND GER 102 Elementary German II Credits are awarded if student takes a 200-level GER course and earns at least a B-	6
	60+	GER 101 Elementary German I AND GER 102 Elementary German II AND GER 201 Intermediate German I AND GER 202 Intermediate German II Credits are awarded if student takes a 300-level GER course and earns at least a B-	12
Human Growth and Development	50	EDU 300 Human Growth and Development	3
Humanities	50	HUM 100T - Elective Credit	3
Information Systems and Computer Applications	50	BIS 300T - Elective Transfer Credit	3
Introductory Business Law	50	BUS 230 Legal Environment	3
Introductory Psychology	50	PSY 100 Introduction to Psychology	3
Introductory Sociology	50	SOC 100 Introduction to Sociology	3
Natural Science	50	SCI 100G - General Education Credit (no lab)	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
Social Science-History	50	SSHI 100T - Elective Credit	3
Spanish Language	50 - 56	SPI 101 Elementary Spanish I AND SPI 102 Elementary Spanish II Credits are awarded if student takes a 200-level SPI course and earns at least a B-	6
	57+	SPI 101 Elementary Spanish I AND SPI 102 Elementary Spanish II AND SPI 201 Intermediate Spanish I AND SPI 202 Intermediate Spanish II Credits are awarded if student takes a 300-level SPI course and earns at least a B-	12
U.S. History I: Early Colonization to 1877	50	HIS 102 History of the United States through 1877	3
U.S. History II: 1865 to Present	50	HIS 103 History of the United States since 1877	3
Western Civilization I: Ancient to 1648	50	HIS 100 History of Europe to 1713	3
Western Civilization II: 1648 to Present	50	HIS 101 History of Europe, 1713 to the Present	3

DSST Examinations

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

EXAMINATION	MINIMUM SCORE	EQUIVALENT NKU COURSES	SEMESTER HOURS
A History of the Vietnam War	49	HIS 565 The Vietnam War	3
Astronomy	48	AST 100G (This credit goes toward a student's elective credit and can satisfy a general education natural science requirement. It will not substitute a course.)	3
Art of the Western World	48+ Departmental Essay	ARTH 101 Survey of Western Art	3
The Civil War and Reconstruction	52	HIS 535 Civil War and Reconstruction	3
Environment and Humanity	46	ENV 110 Introduction to Environmental Science and Issues	3
Fundamentals of College Algebra	400	MAT 100T (This credit goes toward a student's elective credit. It will not substitute a course.)	3
Here's to Your Health	48/400	BIO 125 Biological Perspective of Wellness	3

Human/Cultural Geography	54	GEO 100 Global Viewpoints on Geography and the Human Landscape	3
Introduction to Computing	432	INF 101 Computer Literacy and Informatics	3
Management Information Systems	430	BIS 300 Management Information Systems	3
Principles of Statistics	48/400	STA 205 Introduction to Statistical Methods	3
Substance Abuse	49/400	HSR 340 Alcoholism: Issues and Intervention	3

Financial Industry Regulatory Authority (FINRA) Examinations

NKU students who have taken and received a passing score on a Financial Industry Regulatory Authority (FINRA) examination (as determined by the Department of Accounting, Finance, and Business Law) will receive credit for an equivalent NKU course. The chart below shows, for each FINRA exam accepted by NKU, the minimum score, the semester credit hours earned with that score, and the equivalent NKU courses.

EXAMINATION	Series	Prerequisite	MINIMUM SCORE	EQUIVALENT NKU COURSES	SEMESTER CREDITS
Registered Options Principal (OP)	4	S7, or S62 with S42, S17, S37, or S38	Pass	FIN 305 Principles of Finance AND FIN 345 Investment and Security Analysis AND FIN 405 Derivative Securities	9
General Securities Representative (GS)	7	None	Pass	FIN 305 Principles of Finance AND FIN 345 Investment and Security Analysis	6
General Securities Sales Supervisor (Options Module FINRA-SU)	9	S7	Pass	FIN 305 Principles of Finance AND FIN 345 Investment and Security Analysis	6
General Securities Sales Supervisor (General Module FINRA-SU)	10	S7	Pass	FIN 305 Principles of Finance AND FIN 345 Investment and Security Analysis	6
General Securities Principal (GP)	24	S7, S17, S37, S38, S62, S79, or S82	Pass	FIN 305 Principles of Finance AND FIN 345 Investment and Security Analysis	6
Municipal Securities Principal (MP)	53	S52 or S7 (if passed prior to 11/7/11)	Pass	FIN 305 Principles of Finance AND FIN 345 Investment and Security Analysis	6
NASAA-Uniform Combined State Law Exam (AG and/or RA)	66	S7	Pass	FIN 305 Principles of Finance AND FIN 345 Investment and Security Analysis	6
Life and Health Insurance Licenses in several states	NA	NA	Pass	FIN 355 Principles of Risk Management and Insurance	3

International Baccalaureate

High school students completing this rigorous program may receive credit by earning the required score in a specific subject. An appropriate number of semester credit hours will be awarded the grade of pass (P) for successful completion of approved courses. To earn credit, the student must request that an official transcript issued by the New York office of the International Baccalaureate be sent to the Office of the Registrar. Additional information on regulations and approved NKU programs for IB credit may be obtained from the Office of the Registrar. Subject areas in which a student may receive credit from NKU by earning acceptable scores are listed below.

DISCIPLINE	ACCEPTABLE SCORE	COURSE	SEMESTER CREDIT HOURS
Biology (Subsidiary Level) (Higher Level)	4	BIO 120 Understanding the Living World	4
	5	BIO150/BIO 150L Introduction to Biology I with Laboratory	4
Chemistry (Subsidiary Level) (Higher Level)	5 or higher	CHE 102 Introduction to Chemistry AND one credit of chemistry lab	3 1
	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	3
		ECO 201 Principles of Microeconomics	3
English (Higher Level)	4 or higher	ENG 101 College Writing AND	3
		ENG 291 Advanced College Writing	3
French (Subsidiary Level) (Higher Level)	4 or higher	FRE 101 Elementary French I	3
	4 or higher	FRE 101 Elementary French I AND FRE 102 Elementary French II	6
German (Subsidiary Level) (Higher Level)	4 or higher	GER 101 Elem. German I	3
	4 or higher	GER 101 Elem. German I AND GER 102 Elem. German II	6
History (Subsidiary Level)	4 or 5	HIS 100 History of Europe to 1713 (or HIS 101 History of Europe, 1713 to the	

(Higher Level)	6 or 7	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)	4 or 5	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)	3
(Higher Level)	6 or 7	HIS 102 History of the United States through 1877 AND HIS 103 History of the United States since 1877	6
Mathematics (Higher Level)	4 or higher	MAT 129 Calculus I AND MAT 229 Calculus II	4 5
Physics (Subsidiary Level)	4	PHY 211 General Physics with Laboratory I	5
(Higher Level)	5 or higher	PHY 211 AND PHY 213 General Physics I and II with Laboratory OR PHY 220 University Physics with Laboratory I	5 4
Psychology (Subsidiary Level)	4 or higher	PSY 100 Introduction to Psychology	3
(Higher Level)	4 or higher	PSY 100 Introduction to Psychology	3
Spanish (Subsidiary Level)	4 or higher	SPI 101 Elementary Spanish I	3
(Higher Level)	4 or higher	SPI 101 Elementary Spanish I AND SPI 102 Elementary Spanish II	6

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 submitting a residency affidavit and presenting at least two of the following documents proving that you have:

- Accepted a full-time job or transfer to an employer in Kentucky, Greater Cincinnati, or nearby Indiana while moving your domicile into the state of Kentucky.
- Lived in Kentucky continuously as a nonstudent for 12 months before the semester in which you plan to enroll.
- Prepared an income tax form that shows the payment of Kentucky withholding taxes for the most recent calendar year.
- Been employed full-time for one year while living in Kentucky.
- Obtained a professional license or certification in Kentucky.
- Paid real property taxes in Kentucky.
- Owned real property that was used by you as a resident before the date of application for determining residency.
- Married a Kentucky resident.
- Had a continued presence in Kentucky during academic breaks.
- Not relied on student financial aid in order to provide basic sustenance.

Residency affidavits can be picked up in the registrar's office or downloaded from the residency section of the registrar's website (<http://registrar.nku.edu/Residency.html>).

Deadlines for residency appeals:

Fall and spring semesters: 30 days after the first day of classes.

Summer: 10 days after the first day of classes (in the first session in which the student is enrolled).

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