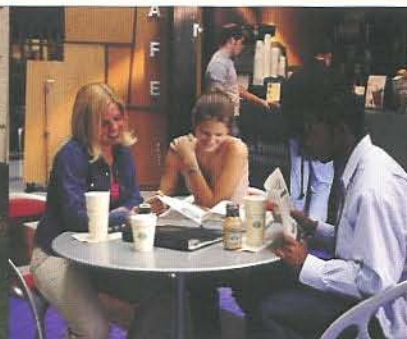
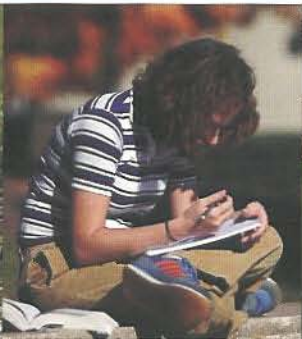




NKU NORTHERN  
KENTUCKY  
UNIVERSITY

# UNDERGRADUATE CATALOG



2004 - 2005



Dear Prospective Student:

Greetings! I am pleased that you are interested in Northern Kentucky University as your choice to pursue your education.

What you will find at NKU are professors who care about their students, quality programs, small class sizes, convenient course offerings, great location, and easy access to many student organizations. When you become an NKU student, you will be central to our mission as a learner-centered campus.

Your educational journey is just beginning. We welcome you to join the over 14,000 other students who are pursuing their dreams at Northern Kentucky University.

Sincerely,

James C. Votruba  
President

# OUR CORE VALUES

In 1998, the University completed its five-year strategic agenda under the title “Defining Our Future.” This documents express the following vision:

**“Northern Kentucky University will become a preeminent, learner-centered, metropolitan university recognized for its contributions to the intellectual, social economic, cultural, and civic vitality of its region and that of the Commonwealth.”**

As we work to achieve our vision, we will be guided by a set of core values that inform our actions and bind us together as an academic community.

## **Learner-Centered**

We are committed to placing the learner at the center of all that we do. We will serve the learner through our core mission to discover, interpret, apply, and transmit knowledge. As a university, we are a community of learners capable of adaptation and improvement based on new knowledge and insights.

## **Excellence**

We are committed to the highest standards of excellence in everything that we do—as judged not only by ourselves but also by those we serve—and to a process of continuous quality improvement based on a culture of evidence.

## **Access with the Opportunity to Succeed**

We are committed to lifelong public access to education and expert knowledge and to ensuring that learners enrolled in the University have the preparation required to succeed. We measure our success by the accomplishments, the commitments, and the satisfaction of our graduates.

## **Public Engagement**

We are committed to treating the metropolitan region as an extension of our campus. We will build partnerships throughout the region that both server the learning needs of the public and enhance the learning opportunities available to our faculty, staff, and students.

## **Intellectual and Creative Freedom**

We are committed to intellectual and creative freedom and to the open expression of ideas in a way that supports scholarship and the advanced learning process.

## **Multiculturalism**

We are committed to advancing multicultural understanding within both the University and the community as an educational and civic priority.

## **Innovating and Creativity**

We re committed to innovative approaches for achieving our vision and will create a campus environment that encourages and rewards creativity and innovation.

## **Collegiality and Collaboration**

We are committed to building a University community characterized by open communication and shared responsibility for decisions. We will build a culture of collegiality and collaboration within and between the University and the public we serve.

# ACADEMIC CALENDAR

<b>FALL 2004</b>	<b>Full Term August 23 - December 11</b>	<b>Fall First Session August 23 - October 16</b>	<b>Fall Second Session October 20-December 11</b>
Classes Begin	August 23, 2004	August 23, 2004	October 20, 2004
Tuition Due (first day of fall term)	August 23, 2004	August 23, 2004	August 23, 2004
Last Day to Register or Enter Course Last day to withdraw with 100% tuition adjustment Last day to change grading option	August 28, 2004 (online)	August 25, 2004	October 22, 2004
University Closed/No Classes	Labor Day - September 6, 2004	Labor Day - September 6, 2004	
Last day to drop course w/o grade appearing on transcript/ Last day to drop course with 50% tuition adjustment	September 11, 2004 (online)	September 1, 2004	October 29, 2004
Deadline filing degree candidacy graduation form with Office of the Registrar	Spring 2005 - October 8, 2004	Spring 2005 - October 8, 2004	Spring 2005 - October 8, 2004
University Open/No Classes	Fall Break - October 18-19, 2004	Fall Break - October 18-19, 2004	
Last day to drop course with grade of W	October 30, 2004 (online)	September 28, 2004	November 29, 2004
University Closed/No Classes	National Election Day - November 2, 2004	National Election Day - November 2, 2004	National Election Day - November 2, 2004
University Open/No Classes	November 24, 2004		November 24, 2004
University Closed/No Classes	Thanksgiving Holiday - November 25-27, 2004		Thanksgiving Holiday - November 25-27, 2004
Last day of classes	December 10, 2004	October 16, 2004	December 11, 2004
Final Examinations	December 11-17, 2004	October 16, 2004	December 11, 2004
Commencement	December 18, 2004	December 18, 2004	December 18, 2004
<b>SPRING 2005</b>	<b>Full Term January 10 - May 2</b>	<b>Spring First Session January 10- March 6</b>	<b>Spring Second Session March 14 - April 30</b>
Classes Begin	January 10, 2005	January 10, 2005	March 14, 2005
Tuition Due	January 10, 2005	January 10, 2005	January 10, 2005
Last Day to Register or Enter Course Last day to withdraw with 100% tuition adjustment Last day to change grading option	January 14, 2005 (online)	January 12, 2005	March 16, 2005
University Closed/No Classes	Martin Luther King Day - January 17, 2005	Martin Luther King Day - January 17, 2005	
Last day to drop course w/o grade appearing on transcript/ Last day to drop course with 50% tuition adjustment	January 28, 2005 (online)	January 20, 2005	March 23, 2005
University Open/No Classes	Spring Break - March 7 - 12, 2005	Spring Break - March 7 - 12, 2005	
Last day to drop a course with a grade of W	March 26, 2005 (online)	February 15, 2005	April 19, 2005
Deadline filing degree candidacy graduation form with Office of the Registrar	Summer & Fall - April 8, 2005	Summer & Fall - April 8, 2005	Summer & Fall - April 8, 2005
Last day of class	April 29, 2005	March 5, 2005	April 30, 2005
Final Examinations	April 30 - May 6, 2005	March 5, 2005	April 30, 2005
Commencement	May 7, 2005	May 7, 2005	May 7, 2005

<b>SUMMER 2005</b>	<b>Full Term May 9 - August 5</b>	<b>Intersession May 9 - May 27</b>	<b>1st Five Week Session May 31 - July 1</b>
Classes Begin	May 9, 2005	May 9, 2005	May 31, 2005
Tuition Due	May 9, 2005	May 9, 2005	May 9, 2005
Last Day to Register or Enter Course Last day to withdraw with 100% tuition adjustment Last day to change grading option	May 13, 2005	May 10, 2005	June 2, 2005
University Closed/No Classes	Memorial Day - May 27, 2005	Memorial Day - May 30, 2005	
Last day to drop full-term course w/o grade appearing on transcript/ Last day to drop course with 50% tuition adjustment	May 27, 2005	May 11, 2005	June 6, 2005
University Closed/No Classes	July 4, 2005		July 4, 2005
Last day to drop a course with grade of W	July 15, 2005	May 20, 2005	June 17, 2005
Last Day of Classes	August 5, 2005	May 27, 2005	July 1, 2005
Final Examinations	August 5, 2005	May 31, 2005	July 1, 2005
	<b>Eight Week Session May 31 - July 22</b>	<b>Six Week Session June 6 - July 15</b>	<b>2nd Five Week Session July 5 - August 5</b>
Tuition Due	May 9, 2005	May 9, 2005	May 9, 2005
Classes begin	May 31, 2005	June 6, 2005	July 5, 2005
Last Day to Register or Enter Course Last day to withdraw with 100% tuition adjustment Last day to change grading option	June 2, 2005	June 8, 2005	July 7, 2005
Last day to drop full-term course w/o grade appearing on transcript/ Last day to drop course with 50% tuition adjustment	June 9, 2005	June 14, 2005	July 11, 2005
University Closed/No Classes	July 4, 2005	July 4, 2005	
Last day to drop a course with grade of W	July 13, 2005	July 1, 2005	July 22, 2005
Last Day of Classes	July 22, 2005	July 15, 2005	August 5, 2005
Final Examinations	July 22, 2005	July 15, 2005	August 5, 2005

The University reserves the right to modify calendar dates if necessary. For updates, visit the NKU Academic Calendar webpage at <http://www.nku.edu/calendars.phpe>.

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For catalog updates: see University website: <http://access.nku.edu/catalog>

All students are responsible for being thoroughly familiar with the regulations and requirements set forth in this catalog. Ignorance of the rules described will not be accepted as an excuse for failing to act in accord with them. The colleges of the University reserve the right to change requirements. Program changes will become effective at the beginning of the full semester and are applicable only to new students and to readmitted students as stipulated elsewhere in this catalog under "Catalog Applicability." Changes in program requirements with any other effective date require the approval of the Provost; such changes will become effective when posted in the Administrative Center, the University Center, the Office of Graduate Programs, the NKU Graduate Center, and in each academic building. Students should refer any inquiries to the appropriate dean or the registrar. Visit the University website at [www.nku.edu](http://www.nku.edu) for more information. It is the policy of Northern Kentucky University not to discriminate in its educational programs, admission policies, financial aid, or other school administered programs on the basis of race, gender, color, age, religion, natural origin, sexual preference, physical or mental handicap, or status as a disabled veteran of the Vietnam Era.

The information contained in this catalog is accurate as of the date of publication. Northern Kentucky University reserves the right to revise catalog provisions in accordance with official actions of the Board of Regents and other governing bodies. Students are advised to consult the appropriate department, college, or office for current information about specific programs. Every effort has been made to ensure that this catalog is accurate and up-to-date, but it may include typographical and other errors. Updates to academic procedures, policies, programs, and course descriptions will be posted on the University website at: <http://access.nku.edu/catalog>.

This publication was prepared by Northern Kentucky University and printed with state funds (KRS 57.375). Northern Kentucky University is an Equal Opportunity/Affirmative Action Institution.



# NORTHERN KENTUCKY UNIVERSITY

## HISTORY

Northern Kentucky University (NKU), the newest of Kentucky's eight state universities, was founded in 1968. However, the roots of Northern can be traced back another twenty years. In 1948, a two-year Extension Center of the University of Kentucky was located in the First District Elementary School in Covington. Then, as Northern Community College, the center moved to the Park Hills area of Covington in 1962. Six years later, the General Assembly of Kentucky authorized the creation of a four-year college, Northern Kentucky State College (NKSC). A board of regents and a consultant were appointed by the governor to assist in planning the new school.

In September 1970, NKSC began offering courses for students pursuing a bachelor's degree. Also, technical and semi-professional two-year programs leading to the degree of Associate of Applied Science were offered in accounting technology, nursing, and professional secretaryship. In 1971 third-year courses were added to the curriculum with the degrees of Bachelor of Arts and Bachelor of Science being initiated in business, education, and most of the basic arts and sciences. Also in 1971, the Salmon P. Chase College of Law, formerly an independent law school in Cincinnati, merged with Northern Kentucky State College.

Graduate programs were initiated in education in 1975; in business administration in 1979; in public administration in 1989; in nursing in 1992; in technology in 1997; in accountancy in 1998, in computer science in 1999, in instructional leadership in 1999, in teaching in 2001, in information systems in 2001, and in Industrial/Organizational Psychology in 2004. The Graduate Center was established on the NKU campus in 1977 to administer graduate programs; programs in social work, library science, nursing, public affairs, and community nutrition are available through the center.

The first building on the new campus in Highland Heights was completed in time for fall semester 1972. In addition to the opening of Louie B. Nunn Hall, the University added fourth-year courses to the curriculum in 1972. The first bachelor's degrees were awarded in May 1973, and course offerings have been continually expanded to meet the needs of a growing student body. On 25 February 1976, Governor Julian Carroll signed House Bill 180, making Northern Kentucky State College a university. Full status was recognized on 19 June 1976. Major construction of the campus began in 1972 and continues today to accommodate a growing enrollment that now is just over 14,000 students.

## SCOPE OF PROGRAMS

Northern Kentucky University offers students a broad range of educational programs emphasizing traditional collegiate and liberal studies. Recognizing the needs of its region, the University's primary mission is to provide instruction at the associate and bachelor's degree levels. The University also offers professional and career studies at these levels.

The University offers selected master's degree programs, approved by the Council on Postsecondary Education, and the degree of Juris Doctor through Chase College of Law.

A metropolitan university, Northern takes advantage of its close proximity to other higher education and post-secondary institutions through reciprocity agreements with the University of Cincinnati, Cincinnati State Technical and Community College, and Southern State Community College. Northern serves Indiana students through a reciprocity agreement with the State of Indiana. The University also provides applied research, service, and continuing education programs related to the needs of its region.

## COMMITMENT TO EQUAL OPPORTUNITY

It is the policy of NKU not to discriminate in employment, educational programs, admissions policies, financial aid, or other school-administered programs on the basis of race, sex, color, age, religion, national

origin, sexual orientation, physical and/or mental disability, or status as a disabled veteran or veteran of the Vietnam Era. The University takes affirmative action to fulfill its policy against illegal discrimination.

Sexual harassment is a form of sex discrimination and is therefore a violation of NKU's Affirmative Action Policy, Title VII of the Civil Rights Act of 1964, and Title IX of the Educational Amendments of 1972. Sexual harassment is defined as any unwelcome sexual advances, requests for sexual favors, and other verbal, non-verbal, physical, or non-physical conduct of a sexual nature that unreasonably interferes with an individual's academic or employment performance. The University's policy is in compliance with state and federal guidelines and is consistent with the University's interest in seeking a diverse faculty, staff, and student body. Student inquiries may be directed to the Northern Kentucky University, Dean of Students or the Director of Affirmative Action and Multicultural Affairs, Nunn Drive, Highland Heights, KY 41099.

## ACCREDITATION

Northern Kentucky University is accredited by the Southern Association of Colleges and Schools. The following organizations have accredited NKU programs: Accreditation Board for Engineering and Technology, American Assembly of Collegiate Schools of Business – The International Association for Management Education, American Association of Law Schools, American Bar Association, American Chemical Society, American Council for Construction Education, Commission on Accreditation of Allied Health Education Programs, Council for Standards in Human Service Education, Council on Social Work Education, Education Professional Standards Board, Joint Review Committee on Education in Radiologic Technology, National Association of Schools of Music, National League for Nursing Accrediting Commission, and National Council for Accreditation of Teacher Education.

The University is authorized by the Commonwealth of Kentucky to confer the degrees of Associate of Applied Science, Bachelor of Arts, Bachelor of Arts in Teaching, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Organizational Studies, Bachelor of Science, Bachelor of Science in Information Systems, Bachelor of Science in Nursing, Bachelor of Social Work, Master of Accountancy, Master of Arts in Education, Master of Business Administration, Master of Public Administration, Master of Science in Computer Science, Master of Science in Nursing, and Master of Science in Technology. The degree of Juris Doctor is conferred by the College of Law; the degree of Juris Doctor/Master of Business Administration by the College of Law and the College of Business.

## STATEMENT OF MISSION

Northern Kentucky University has a singular mission within the Commonwealth as a metropolitan and regional institution. It offers associate, bachelor's, graduate, and professional programs addressing the educational needs of a large and diverse population. Through such programs, the University educates students to be productive citizens and prepares them for careers and life-long learning. As an educational, cultural, and social center, the University stimulates economic development and fosters the academic, artistic, and personal freedoms vital to a free society.

## GEOGRAPHIC REGION

The University serves the citizens of northern Kentucky with a particular focus on the metropolitan area contiguous to greater Cincinnati. Student residential services are provided.

## INSTITUTIONAL ADMISSION STANDARDS

Northern Kentucky University admits students under selective standards exceeding the minimum admission guidelines, established by the Council on Postsecondary Education, with only limited exceptions. The



institutional standards are consistent with the system-wide policy for admitting under-prepared students, including the removal of academic deficiencies within a specified time frame. Through this approach, the University seeks to provide both broad access and high-quality programs and to pursue a particular commitment to placebound and other learners and to populations traditionally under-represented in higher education.

## DEGREE LEVELS

The University offers selected programs leading to associate, bachelor's, master's, and professional law degrees to meet specific metropolitan/regional needs.

## STRATEGIC DIRECTIONS/PROGRAM PRIORITIES

Northern Kentucky University's distinctive metropolitan/regional mission requires that it maintain a broad range of offerings: occupational programs, a traditional arts and sciences bachelor's curriculum, legal education through Chase College of Law, and graduate programs to meet specific metropolitan/regional needs. The University's responsibility is to meet the needs of both northern Kentucky and the greater metropolitan area. Academic priorities include occupational programs, liberal arts and sciences, business, education, and law. These strategic priorities translate into a core of liberal arts bachelor's degree programs in addition to degree programs priorities at the associate, bachelor's, master's, and professional levels.

## ENHANCEMENT OF INSTRUCTION

Teaching and learning are the primary focus of the University. The University offers a broad range of instructional and support services to promote the curricular and extracurricular development and success of its students. Developmental programs address the needs of under-prepared students; extensive evening offerings and alternate means of course delivery expand opportunities for students with limited access to the campus.

## SERVICE AND RESEARCH FUNCTIONS

Northern Kentucky University seeks to develop creative and mutually beneficial partnerships with public and private enterprises in the local metropolitan area and the region in support of economic growth and investment. The University is especially committed to offering training, applied research, and other services in support of area businesses, industry, and government. It recognizes a special commitment to research and service in support of local elementary and secondary schools in its primary service area.

The University engages in community partnerships coordinated through the Scripps Howard Center for Civic Engagement. The Center was established by NKU to advance public stewardship, citizenship, and engagement through learning, scholarship, and community capacity-building. The Center engages students in a variety of community capacity-building projects, from student philanthropy to service-learning to citizenship skill building. The Center also involves students in a *Get Out the Vote for Democracy Initiative*. NKU students can be trained as Engagement Specialists and assigned to work with faculty and community leaders on a variety of tasks.

For more information on these and other programs, visit the Center's website at <http://civicengagement.nku.edu> or contact Dr. Laurie dePadova-Stocks, Director, at 859-572-1448.

## STUDENT RESEARCH AND CREATIVITY

The University strives to enhance the experiences of students by offering two opportunities that enable students to fund and present research or creative activities on interesting topics.

Students can obtain funds to pay for materials, supplies, equipment, software, or project-related travel while they conduct a project under the mentorship of a faculty member. To locate the guidelines for this program, visit: <http://rgc.nku.edu/surg.doc>.

Students can also present their work at the annual Celebration of Student Research and Creativity. This event highlights students' achievements in a broad array of scholarly and creative activities. Students display their work through posters, oral presentations, interactive demonstratives, performances, and exhibits of artistic work. Website: <http://celebration.nku.edu>. For further information on both programs contact the Office of Research, Grants, and Contracts, Administrative Center 724, phone: 859-572-5136.

## COLLABORATIVE VENTURES

The University establishes and maintains cooperative and mutually beneficial relationships with other public institutions of higher education in Kentucky, with elementary and secondary schools, and with other such institutions in northern Kentucky and the interdependent metropolitan area. Curriculum development emphasizes the transfer of credits from another institution toward degree completion.

The University participates in the Kentucky Commonwealth Virtual University (KYVU), a collaboration of Kentucky public and independent universities. KYVU can be found on the Web at <http://www.kcv.org>. KYVU is a public institution which coordinates credit and non-credit student-friendly learning environments that can lead to certificates or degrees. KYVU uses a multi-technology approach including one-way broadcast (KET), interactive television (KTLN), and Web-based course work. The Kentucky Commonwealth Virtual Library (KCVL), found at <http://www.kcvl.org>, provides a single web portal to learning materials state-wide and includes cooperation of Kentucky colleges, universities, P-12 school systems, and local libraries.

## EFFICIENCY AND EFFECTIVENESS

Northern Kentucky University addresses the educational needs of its region and people effectively and efficiently. Planning, evaluation, assessment, and prudent commitment of resources are essential to promote continuous improvement of programs and services. Strategic planning that results in elimination of duplicative or unproductive programs not serving metropolitan/regional needs is essential, while the development of carefully selected new programs compatible with the mission is appropriate.

## GRADUATE PROGRAMS

Northern Kentucky University offers an array of excellent graduate programs. Graduate programs are directed to professionals who would like to earn a degree or certificate to help them in their career paths. For more information on NKU graduate programs call the Office of Graduate Programs at 859-572-1555; e-mail: [gradprog@nku.edu](mailto:gradprog@nku.edu); or, visit their website at <http://gradsite.nku.edu>.

### Master's Programs

Accountancy (MAcc)  
Business Administration (MBA)  
Computer Science (MACS)  
Education (MAEd)  
Information Systems (MSIS)  
Juris/Doctor/Business Administration (JD/MBA)  
Psychology (MSIO)  
Public Administration (MPA)  
Teaching (MAT)  
Technology (MST)

### Certificate Programs

Fifth Year in Education  
Rank 1 in Education  
Nonprofit Management  
Post MSN

## PROFESSIONAL PROGRAMS

The University offers one professional program, the Juris Doctor. For information, contact Salmon P. Chase College of Law, 859-572-5490.

# ADMISSIONS AND FINANCIAL AID

## ADMISSIONS

### APPLICATION FEE POLICIES

Applications for admission to the University must include a non-refundable \$25.00 application fee. The fee will be assessed for degree-seeking and non-degree-seeking students. A student who carries dual status as a post-bachelor's student and graduate student will be assessed an application fee at each degree level.

An applicant's fee waiver request will be considered by the director of admissions in instances of financial hardship if the request is accompanied by a letter from

1. a high school counselor or principal;
2. a Talent Search counselor or Upward Bound official;
3. a member of NKU Student Support Services;
4. the State of Kentucky (Certification of Financial Assistance).

The applicant's request for a waiver and letter of recommendation for fee waiver must be submitted with the application for admission. Students from the Greater Cincinnati Consortium of Colleges and Universities and the Southwestern Ohio Council for Higher Education are not charged the \$25.00 application fee.

An application for admission (undergraduate or graduate) will not be processed until NKU receives the application fee or the fee waiver is approved. Prompt correspondence regarding the application fee requirement will be sent to all applicants failing to submit the fee.

Alumni who have earned bachelor's degrees from NKU will have the \$25 application fee waived for post-bachelor's or graduate applications for admission. The application fee is also waived for spouses, or dependents of NKU faculty or staff who are eligible for a tuition waiver.

### ADMISSION CLASSIFICATIONS FOR DEGREE-SEEKING STUDENTS

**Freshmen:** Students who have not attempted coursework at a regionally accredited college or university (other than college courses earned while in high school). Final high school transcripts must be submitted upon graduation.

**Transfer:** Students who have attempted coursework for credit at another approved regionally accredited college or university. Students

should be eligible to return to their previous institution(s) at the time of application. See "Second Suspension" on page 36 if not eligible to return to previous institution or if your cumulative G.P.A. is less than 2.0. All necessary credentials for admission must be submitted by August 1 for fall semester, December 1 for spring semester and May 1 for summer semester. Transfers who do not submit all necessary credentials by the final deadlines must register as non-degree and are ineligible to receive financial aid or academic advising. If applicants choose to become degree-seeking at a later date, they must submit a new application for admission, an additional \$25 application fee, all required credentials, and must meet the deadline dates.

**Readmission:** Students who have attempted coursework at NKU, but have not been enrolled during the four years preceding the semester in which the application is made to reenter the University. Students who have been suspended must submit an undergraduate application no later than August 1 for the fall semester, December 1 for the spring semester, or May 15 for summer sessions. Refer to "Suspension" on page 36 for complete information. Readmission students with transfer credit must submit an official transcript with their application by August 1 for fall semester and December 1 for spring semester.

**Post-bachelor:** Students who have received a bachelor's degree and intend to enroll for additional undergraduate credit as degree-seeking.

**Graduate:** Students should request information from the Graduate Studies Office at 859-572-6364.

**Home School and Independent Study:** Students who are home schooled or completing their high school diploma through an independent study program must submit the credentials listed for freshman admission, except for the high school transcript from an accredited high school.

Additionally, the student must submit

1. a notarized statement from the home school teacher detailing the content of the student's home school curriculum and the duration of such; and
2. final home schooled transcript must be submitted upon graduation.

The chart below illustrates the different deadlines and requirements for degree-seeking students.

### ADMISSION DEADLINES AND CREDENTIAL REQUIREMENTS FOR DEGREE-SEEKING STUDENTS

	FRESHMEN	TRANSFER	READMISSION	POST-BACHELOR
<b>DEADLINES FOR ADMISSION</b>	<b>Early Action</b>	<b>Early Action</b>	<b>Priority</b>	<b>Final</b>
<b>FALL SEMESTER</b>	February 1 <b>Priority</b> May 1 <b>Final</b> August 1	February 1 <b>Priority</b> May 1 <b>Final</b> August 1	May 1 <b>Final</b> August 1	August 1
<b>SPRING SEMESTER</b>	<b>Priority</b> November 1 <b>Final</b> Day before classes begin	<b>Priority</b> November 1 <b>Final</b> December 1	<b>Priority</b> November 1 <b>Final</b> With transfer work December 1 otherwise Open Registration	<b>Priority</b> November 1 <b>Final</b> Open Registration see <i>Schedule of Classes</i>
<b>CREDENTIALS REQUIRED</b>				
Application Fee	Yes	Yes	Yes	Yes, unless NKU graduate
Official High School Transcript/GED Scores	Yes	Yes (less than 24 semester hours transferred)	Yes (unless previously sent)	No
Official American College Test (ACT), Scholastic Achievement Test (SAT), or COMPASS (writing, algebra, and reading scores)	Yes	Yes (less than 24 semester hours transferred)	Yes (unless previously sent)	No
Official College Transcript(s) from each institution attended	No (unless college credit in high school)	Yes	No (unless additional coursework from another institution)	Yes (indicating Bachelor's degree)

## ADMISSION CLASSIFICATIONS FOR NON-DEGREE SEEKING STUDENTS

**Early Admission:** Students who are high school students who wish to enroll for courses at NKU. A 3.5 (on a 4.0 scale) high school GPA, an ACT composite of 20 or above or SAT composite of 1020 or above and permission from the guidance counselor are required for admission. Interested students should contact the Office of Admissions for additional information and Early Admission application. A student who has attended NKU previously as an early-admission student must resubmit a completed and approved Permission to Enroll Form for each subsequent term for which he/she desires to enroll as an early admission student. If the student wishes to become degree-seeking, he/she must submit a new application for admission, the \$25 application fee, and the required credentials for freshman admission.

Note: Enrollment generally is restricted to seniors with exceptions permitted for non-seniors enrolled in “advanced” high school courses in mathematics (calculus or above), the sciences (second year of physics, chemistry, or biology), or foreign languages (third-year or above).

**Non-Degree:** Students who do not intend to enter a degree program at the time of application. Student must have a high school diploma or

GED. A maximum of 36 semester hours earned as a non-degree seeking student may be applied to a degree earned at NKU. Non-degree students are not eligible to receive financial aid, veteran’s benefits or academic advising. Students who choose to become degree-seeking at a later date must submit a new application for admission, pay an additional \$25 application fee, submit all required credentials, and must meet the appropriate application for admission deadline.

**Post-Bachelor:** Students who have received a bachelor’s degree and intend to enroll for additional undergraduate credit as degree-seeking or non-degree seeking.

**Visiting (Transient):** Students who attend another college or university, but wish to enroll at NKU for one semester. 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. Summer terms are not considered a consecutive semester.

### CREENTIAL REQUIREMENTS FOR NON-DEGREE-SEEKING STUDENTS

Non-degree students are not eligible to receive financial aid, veteran’s benefits, or academic advising. If these applicants choose to become degree-seeking at a later date, they must submit a new application for admission, an additional \$25 application fee, all required credentials, and must meet the appropriate deadline dates.

CREENTIALS REQUIRED	EARLY ADMIT	NON-DEGREE	POST-BACHELOR	VISITING
Application and Application Fee	Yes	Yes	Yes	Yes (No fee if consortium)
Early Admit Form	Yes	No	No	No
Official High School Transcript	Yes	No	No	No
Official College Transcripts	No	No - unless needed for pre-requisite	No - unless needed for pre-requisite	No - unless needed for pre-requisite
ACT or SAT Official Score Report	Yes	No - unless needed for pre-requisite	No - unless needed for pre-requisite	No - unless needed for pre-requisite
Deadline for Admission	Fall Priority - August 1 Spring Priority - December 1	Fall Final - August 1 Spring Priority - December 1	Fall Final - August 1 Spring Priority - December 1	Fall Final - August 1 Spring Priority - December 1

## ADMISSION CLASSIFICATIONS FOR INTERNATIONAL STUDENTS

**International Students (Non-Immigrant F-1 Status):** Students should apply with the International Admissions Office (University Center 366) at least six 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, are competent in English, and verify that they have access to funds sufficient to meet the costs of completing their studies. In addition, a tuition deposit may be required of certain students; the SAT exam may be required from students from certain countries depending on U.S. consulate procedures. In either case, those individuals will be so advised by the University.

Specific credentials required:

1. international application for undergraduate admission;
2. declaration and certification of finances;
3. official transcripts of secondary work (or appropriate certificates of examination);
4. an official transcript from each college or university attended;
5. all applicants with undergraduate foreign transcripts must have those transcripts evaluated course by course by an approved Foreign Education Evaluation Service. These must be submitted along with the original or certified copy of your foreign transcripts in order for any transfer credit to be awarded. Please contact the Office of International Student Affairs for a list of approved Services at isa@nku.edu or 859-572-6517; and

6. all non-native speakers of English studying at NKU must prove English Proficiency. Any one of the following will satisfy the English Proficiency requirement for admission:

- a. submit an official score report of the Test of English as a Foreign Language (TOEFL) taken within the last two years. The minimum TOEFL scores to be considered for admission are: computer based—173 or paper-based—500;
- b. present documentation of having satisfactorily completed Freshman Composition I at an American college in the U.S. and have an overall acceptable grade point average. Non-native speakers of English may still be asked to take the TOEFL if it has been several years since taking the English courses and/or if the student has returned to his/her home country;
- c. present documentation of having successfully completed Level 109 at an ELS Language Center in the U.S.;
- d. submit a 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: ACT—18 or SAT—480; *or*
- e. submit an official score from the International English Language Testing Service (IELTS) taken within the last two years. The minimum IELTS scores to be considered for admission are: Band of 5.0.

If the student’s primary language is not English and the student is seeking to maintain or obtain F-1 immigration status, the student must do

at least one of the above to be considered for admission. After acceptance and upon arrival at NKU, all international undergraduate students will be required to take an English placement test on NKU's campus (Michigan Test).

Undergraduate students who have presented documentation b. or d. above or those who have presented documentation showing that they meet or exceed the graduate level requirement in a. or e. above are not required to take any additional English placement tests prior to registration, but the individual department may request that the student do so.

**International Students (Non-Immigrant, Non F-1 Status):** Students should apply with the International Admissions Office by submitting an international student application (if applicable), transcripts as described in section for Non-Immigrant F-1 Status students, and meet the English proficiency requirements as described above.

**Permanent Residents:** Students should apply through the domestic Office of Admissions and meet the foreign transcript and English proficiency requirements as set out in Non-Immigrant F-1 Status student section, in addition to all domestic admissions requirements. Undergraduate permanent residents and certain other visa types (H-1, H-4, L-1, L-2, F-2, E1, E2, M-1, J-2 or TN) including U.S. citizens whose primary language is not English should file the standard application for admission and will be required to take the NKU administered Michigan Test of English Language Proficiency. In this case, unless the student has presented documentation of a., b., c., d., or e. above, the Michigan Test is a requirement in order to be considered for admission. The application for admission must be on file in order to take the Michigan test and in order to have the scores processed. Please note that if admission is denied because the Michigan Test score is too low, the \$25 application fee can not be refunded. Exceptions to the Michigan Test requirement for undergraduate students in this category are the same as those seeking F-1 student status. See above.

**Exchange Students (Non-Immigrant J-1)**

The Office of International Programs (OIP) receives the notification of their selection as an NKU exchange student from their home institution. OIP then begins the J-1 visa process and collects all application materials which is then forwarded to the International Admissions Office.

**Transfer Applicants:** Students must submit an official foreign evaluation processed by an NKU approved transcript evaluation company. Please contact International Student Affairs at 859-572-6517 or see www.nku.edu/edu/~isa for more information.

**SELECTIVE ADMISSION PROGRAMS**

Admission to the University does not ensure acceptance into a selective admission degree program. Students interested in applying to these programs should contact the Department of Nursing and Health Professions for program application materials. Students must be accepted for admission to the University and submit the selective application and necessary credentials by the following deadlines for each selective program:

**Nursing**

January 31

**Radiologic Technology**

February 15 (priority)

**Respiratory Care**

Rolling Admissions

Several other programs at NKU practice selective admissions but do not require an application. These programs admit students as pre-majors until they have met program requirements.

**ACCEPTANCE TO THE UNIVERSITY**

Northern Kentucky University is implementing new admissions standards which may limit the number of students accepted in the restricted status. Therefore, it is recommended that you apply for admission early. Because an admissions decision cannot be made until all tran-

scripts and test scores are submitted, it is in your best interest to submit these materials and your application for admission by February 1 for fall semester enrollment and November 1 for spring semester enrollment or as early as possible.

Students who have not met the pre-college curriculum (PCC) as prescribed by the Kentucky Council on Postsecondary Education or who have ACT or SAT scores below those required for entrance into college-level courses may be admitted to the University with a stipulated or restricted admission status. A student with a PCC deficiency who has an ACT or SAT score in the top 60% nationally for English, mathematics, or science subject areas will not be judged to have a PCC deficiency in these areas.

**STATUS OF ADMISSIONS**

As part of the admission process, the Office of Admissions evaluates a student's admission status for every degree-seeking freshman and for students who are transferring to NKU with less than 24 semester hours. The purpose of this evaluation is to determine the student's preparation for college level coursework. The evaluation focuses on two areas: the student's high school coursework (Pre-College Curriculum - PCC) and the ACT, SAT or COMPASS exam scores. We evaluate these two areas to determine if the student meets the minimum requirements set forth by both the Kentucky Council on Postsecondary Education and NKU for admission to a degree program.

**ADMISSION STATUS**

All students are admitted to NKU in one of the following categories:

**Regular Admission:** Students are academically prepared to take college-level courses in all areas of study and are not required to take developmental courses. These students may declare a major upon entry into the University.

**Stipulated Admission:** Students have only one ACT score that is lower than the minimum required to take college-level coursework or have a low SAT score in mathematics. These students need to do one of the following to move to regular admission status: 1) earn the minimum required score by retaking the ACT/SAT, 2) demonstrate readiness for college course by passing the challenge test (if eligible), or 3) satisfactorily complete the prescribed developmental coursework. The challenge test must be taken prior to registering for the student's first semester at NKU. The students may declare a major upon entry into the University.

**Restricted Admission:** Students have at least one PCC deficiency or two or more low ACT scores. Students who have a low SAT verbal score are also restricted. These students, called University Studies students, must satisfactorily complete the prescribed developmental coursework, earn the minimum required score by retaking the ACT/SAT, or demonstrate readiness for college course by passing the challenge test (if eligible). The challenge test must be taken prior to registering for the student's first semester at NKU. University Studies students are not permitted to declare a major until their deficiencies are successfully removed by appropriate coursework and/or testing. University Studies students are advised by advisors in the Academic Advising Resource Center.

**PRE-COLLEGE CURRICULUM NECESSARY FOR PLACEMENT**

FALL 2004 AND 2005	
English- 4 credits	English I, II, III, and IV or AP English
Mathematics - 3 credits	Algebra I, II and Geometry * see below for substitutes
Foreign Language (2004) - 2 credits	2 credits of same foreign language** see below

Students deficient in Pre-College Curriculum are required to take college-level courses in deficient areas. There are no challenge tests for

PCC deficiencies. Foreign language policy is currently under review in the College of Arts and Sciences.

\*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.

\*\*All students entering Northern Kentucky University in or after the fall semester of 2004 who graduated from high school in the spring of 2004 or later and whose high school transcripts do not indicate that they either met or were exempted from the pre-college foreign language admission requirement must remove their admissions deficiency by completing one semester of a foreign language sequence offered at NKU. The course taken to remove the foreign language deficiency will also count

toward fulfillment of the language option of the general education humanities requirement.

### STIPULATED AND RESTRICTED ADMISSION COURSE TAKING POLICY

Students with any academic deficiency, ACT/SAT or Pre-College Curriculum, will be required to enroll each semester in at least one course that fulfills an academic deficiency until all academic deficiencies are successfully completed.

Students must successfully complete all academic deficiencies prior to completing 45 earned hours. Should students fail to complete all academic deficiencies by 45 earned hours, they will not be permitted to continue enrollment at NKU. Students may attend another college to take courses which meet their academic deficiencies and then later return to NKU to finish their degree.

### TEST SCORES, COURSE ASSIGNMENTS, AND CHALLENGE TESTS

ACT SCORES TAKEN AFTER 10/89		COURSE ASSIGNMENT	CHALLENGE TESTING
<b>English</b>	18 or higher	ENG 101 - College level English	No testing required
	15, 16, or 17	ENG 090	Eligible for challenge test For instructions see <a href="http://www.nku.edu/~testing">http://www.nku.edu/~testing</a>
	14 or below	ENG 090	Not eligible to test
<b>Mathematics</b>	18 or higher	College level math	No testing required
	15, 16, or 17	MAH 095	Eligible for challenge test For instructions see <a href="http://www.nku.edu/~testing">http://www.nku.edu/~testing</a>
	14 or below	MAH 090	Eligible for challenge test For instructions see <a href="http://www.nku.edu/~testing">http://www.nku.edu/~testing</a>
<b>Reading</b>	18 or higher	No requirement	No testing required
	15, 16, or 17	LAP 091	Eligible for challenge test For instructions see <a href="http://www.nku.edu/~testing">http://www.nku.edu/~testing</a>
	14 or below	LAP 091	Not eligible to test

SAT SCORES		COURSE ASSIGNMENT	CHALLENGE TESTING
<b>Verbal (English and Reading)</b>	480 or higher	ENG 101 - College level English	No testing required
	420 - 470	ENG 090 and LAP 091	Eligible for challenge test For instructions see <a href="http://www.nku.edu/~testing">http://www.nku.edu/~testing</a>
	410 or below	ENG 090 and LAP 091	Not eligible to test
<b>Mathematics</b>	430 or higher	College level math	No testing required
	350 - 420	MAH 095	Eligible for challenge test For instructions see <a href="http://www.nku.edu/~testing">http://www.nku.edu/~testing</a>
	340 or below	MAH 090	Eligible to test For instructions see <a href="http://www.nku.edu/~testing">http://www.nku.edu/~testing</a>

COMPASS SCORES		COURSE ASSIGNMENT	CHALLENGE TESTING
<b>English (Writing skills score)</b>	70 or higher	ENG 101 - College level English	No testing required
	38 - 69	ENG 090	Eligible for challenge test For instructions see <a href="http://www.nku.edu/~testing">http://www.nku.edu/~testing</a>
	37 or below	ENG 090	Not eligible to test
<b>Mathematics (Algebra score)</b>	35 or higher	College level math	No testing required
	30 - 34	MAH 095	Eligible for challenge test For instructions see <a href="http://www.nku.edu/~testing">http://www.nku.edu/~testing</a>
	29 or below	MAH 090	Eligible for challenge test For instructions see <a href="http://www.nku.edu/~testing">http://www.nku.edu/~testing</a>
<b>Reading</b>	81 or higher	No requirement	No testing required
	61 - 80	LAP 091	Eligible for challenge test For instructions see <a href="http://www.nku.edu/~testing">http://www.nku.edu/~testing</a>
	60 or below	LAP 091	Not eligible to test

**FRESHMEN TRANSITIONS**

**TRANSITIONS** is NKU's program of orientation, academic advising, and course registration. The program is recommended for entering students. The periodic sessions provide an introduction to NKU's academic programs and services. The schedule for the TRANSITIONS sessions is set annually and is available on the Internet at <http://www.nku.edu>. Invitations will be mailed based on acceptance date. It is to your advantage to attend an early TRANSITIONS program to receive the best selection of courses.

**TRANSFER PROCEDURES**

This information is intended to answer some of the frequently asked questions regarding the transfer process. See the Transfer Office Website at [http://www.nku.edu/~admitnku/transfer\\_services/home.htm](http://www.nku.edu/~admitnku/transfer_services/home.htm) for additional information.

**What coursework will transfer?**

Coursework completed at a regionally accredited institution with a grade of *D* or better quality will be evaluated. Only hours of credit are transferable; grade point averages do not transfer and will not be calculated. Courses judged to be remedial or developmental in content will not be considered for credit.

**Articulation Agreements**

Please note on the application if you are following an articulation agreement from any institution with which NKU has a formal articulation agreement.

**How is the transcript evaluated?**

The evaluation of transfer work is accomplished in two stages:

First, NKU personnel evaluate all hours of *D* grade or better which become the total number of hours granted. An "Applicant Transfer Credit Evaluation" form is then sent to the student which shows how his/her coursework was accepted at NKU. Once admitted to NKU, transfer students can access *Norse Express*, "Real-Time Degree Audits" to view how transfer credits will apply to their major/minor and/or general education

requirements. If necessary, student may contact their department's academic advisor.

**Suggestions for Transfer Students**

1. Students who attend a college/university which is outside of Kentucky or Ohio, and/or whose coursework is over 7 years old, should also submit course descriptions or a catalog from that year in order to expedite the evaluation process.
2. A transcript should be sent which includes coursework completed up to application date. Also, request that the institution send another transcript when coursework in progress is completed.
3. Remember, it takes time to accurately evaluate transcripts. Allow at least three weeks for the evaluation of credentials.
4. We encourage all students transferring from a Kentucky Public Institution to request that the Kentucky Transfer Module (KTM) be applied to their transcript.

**REGISTRATION VIA NORSE EXPRESS**

Lucas Administrative Center 301  
[www.nku.edu](http://www.nku.edu)  
 Fax: 859-572-6094  
[registrar@nku.edu](mailto:registrar@nku.edu)  
<http://express.nku.edu/webdocs/ahomepg.htm>  
 Hours: Monday-Friday 7:30 am-10:00 pm  
 Weekends 9:00 am Saturday - midnight Sunday

Students have remote access to their NKU accounts via Norse Express, a web-based system. Information/services available include: bursar account summary, grades, class schedules, course descriptions, class section availability, credit card payment, unofficial transcripts, degree audits, and course registration/drop/add. To access the web-based portion of *Norse Express*, you must have the latest versions of MS Internet Explorer (5.0 and above) or Netscape Navigator (4.5 and above).

Prior to registering for classes, many students are required to consult with an academic advisor. See the following table for requirements.

ACADEMIC ADVISING REQUIREMENTS FOR REGISTRATION	
The proper selection of courses is important for every NKU student. Therefore, you are encouraged to meet your academic advisor prior to registration each term. As part of the university process, you may be <b>REQUIRED</b> to have your class schedule approved before you are eligible to register. The following criteria have been established for each division of students who must see their academic advisor prior to registration:	
<b>Academic Probation:</b> Students not in good academic standing will not have access to register through <i>Norse Express</i> . Students on academic probation must first see their academic advisor. After obtaining registration approval from their academic advisor, students on academic probation <b>MUST</b> receive approval from their academic dean's office prior to attempting to register for classes. <b>NO EXCEPTIONS.</b>	
<b>NOTE:</b> Students advised by the Academic Advising Resource Center (AARC) obtain their 'dean's approval' from AARC.	
COLLEGE OF ARTS AND SCIENCES*	
Anthropology, Sociology and Philosophy	All freshmen and new majors are required to see an advisor.
Art	All freshmen and new majors are required to see an advisor.
Biological Sciences	All students are required to see an advisor.
Chemistry	All freshmen and new majors are required to see an advisor.
History and Geography	All students are required to see an advisor.
Liberal Studies	All students are required to see an advisor in the Dean's Office, Steely Library 401
Literature and Language	All freshmen and new majors are required to see an advisor.
Mathematics and Computer Science	All students are required to see an advisor.
Music	All students are required to see an advisor.
Physics and Geology	All students are required to see an advisor.
Political Science	All students are required to see an advisor.
Psychology	All freshmen and new majors are required to see an advisor.
Theatre and Dance	All freshmen, sophomores, and new transfer students are required to see an advisor.
Undeclared	All students are required to see an advisor in the Dean's Office, Steely Library 401.

**ACADEMIC ADVISING REQUIREMENTS FOR REGISTRATION**

**COLLEGE OF BUSINESS**

All new students, freshmen, transfer, and readmits must be advised. All students with fewer than 30 hours earned who are currently enrolled in their first or second semester at NKU must be advised. The College of Business Advising Center is located in BEP 463, phone: 859-572-6134.

**COLLEGE OF EDUCATION**

All students entering the College of Education for their first term are required to attend an orientation session and meet with their advisor, BEP 263, phone: 859-572-6944.

**COLLEGE OF PROFESSIONAL STUDIES\***

Social Work and Mental Health/Human Services	All students are required to see an advisor.
Communication	All students are required to see an advisor except for Journalism majors, who as freshmen and sophomores are required to see an advisor.
Nursing and Health Professions	All pre-major undergraduate students are required to see an advisor. All students in the four-year BSN program are required to see an advisor. All declared majors in the Respiratory Care program are required to see an advisor.
Technology Majors:	
Aviation Administration	All freshmen and new majors are required to see an advisor.
Business Education (teaching)	All students are required to see an advisor.
Business Education (non-teaching) Organizational Systems Technology	All students are required to see an advisor.
Computer & Electronic Engineering	All students are required to see an advisor.
Construction Management	All students are required to see an advisor.
Construction Technology	All students are required to see an advisor.
Industrial Education	All freshman and new majors are required to see an advisor.
Industrial & Labor Relations	All freshmen and new majors are required to see an advisor.
Mechanical & Manufacturing Electronics Engineering Technology	All students are required to see an advisor.
Organizational Leadership	All students are required to see an advisor.
Organizational Leadership (web-based program)	All students are required to see an advisor.
Undeclared	All students are required to see an advisor in the Dean's Office, Health Center, 215.

**UNIVERSITY STUDIES (AARC)**

All students are required to see an advisor, Old Science Building 405A  
Students on probation are not eligible to register via Norse Express. Students on probation must have approval to register from their Academic Dean's Office.

\*All students seeking Teacher Certification must attend a College of Education orientation session and meet with an education advisor in addition to any requirements in their primary major.

**FEE PAYMENT VIA BURSAR OPERATIONS**

Lucas Administrative Center 235  
859-572-5204  
Fax: 859-572-5566  
<http://access.nku.edu/bursar/>

Hours - Fall and Spring Semesters

Monday - Thursdays 7:30 am - 6:30 pm  
Friday 7:30 am - 4:30 pm

Hours - Summer Semesters

Tuesday, Wednesday, and Friday 7:30 am - 4:30 pm  
Monday & Thursday 7:30 am - 6:30 pm

Hours subject to change; see directory outside the office.

Bursar Operations, located on the second floor of the Lucas Administrative Center, is responsible for assessment and collection of student tuition and fees. In addition, the office provides a check cashing service to all faculty, staff, and students.

**VEHICLE REGISTRATION/PARKING OFFICE**

Administrative Center 235F  
859-572-5505  
<http://access.nku.edu/bursar/>



Every motor vehicle operated or parked on the Highland Heights

campus or Covington campus of Northern Kentucky University must be registered via *Norse Express for Students* at [www.nku.edu](http://www.nku.edu). Vehicle registration at either location is valid for both campuses. The cost of a student parking decal is subject to change; consult current *Schedule of Classes*. Parking regulations may be viewed online at: [http://access.nku.edu/bursar/pdf/parking\\_rules\\_and\\_regs.pdf](http://access.nku.edu/bursar/pdf/parking_rules_and_regs.pdf). Questions pertaining to vehicle registration should be addressed to the Parking Office.

### ADMISSION: STUDENTS OVER 65

Kentucky residents 65 years of age or older may, without payment of application fees or tuition, pursue credited coursework at Northern Kentucky University for a degree or for personal enrichment. Non-credited courses are not included in this benefit. Upon applying for admission, students must submit proof of age.

### RESIDENCY

Students are notified of their residency status when they are admitted to the University. Residency status is determined in accordance with the Council on Postsecondary Education's Classification of Residency for Admission and Tuition Assessment Purposes. This policy can be found within this catalog. Students who wish to appeal the initial determination of residency for tuition purposes may request a residency affidavit from the Office of the Registrar to initiate this process.

### ON-CAMPUS HOUSING REQUIREMENT

Unless qualifying for an exemption, new freshman students will be required to live on campus. Additional information regarding this requirement may be obtained on the web at <http://access.nku.edu/housing> or by contacting University Housing at 859-572-5676.

### HOUSING

Norse Commons 101  
859-572-5676  
Fax: 859-572-6099  
[housing@nku.edu](mailto:housing@nku.edu)  
[www.nku.edu/~housing](http://www.nku.edu/~housing)

University Housing provides housing services for single students who decide to live on-campus during the school year. The facilities contain traditional residence hall rooms as well as apartment-style living, lobby areas, information desks, computer lab, televisions, vending areas, loft/study areas, and space for student recreation. The Residential Housing Association (RHA) represents resident students to the Office of University Housing and to the Student Government Association. RHA serves as a sponsor of Residential Village events and reviews and recommends University policy changes.

To be eligible for student housing, you must be a regularly enrolled student with a minimum of 12 credit hours at Northern Kentucky University or Gateway Community College. Special approval may be granted by the Director of Housing for students who are enrolled in 6 or more credit hours at NKU or Gateway. Consideration will be based on GPA, ACT, and academic progress.

## FINANCIAL AID AND SCHOLARSHIPS

### FINANCIAL AID APPLICATION

You must complete the Free Application for Federal Student Aid (FAFSA). The Title IV code for NKU is 009275.

The FAFSA can be completed, using the internet at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

Students who wish to apply for a summer term should also contact the NKU Office of Student Financial Assistance for a summer application. E-mail [ofa@nku.edu](mailto:ofa@nku.edu).

### SCHOLARSHIPS

Scholarships available at Northern Kentucky University are awarded on the basis of academic excellence and/or artistic talent. For a complete listing of all undergraduate scholarships at Northern Kentucky University, view the scholarship listing at [www.nku.edu/~ofa](http://www.nku.edu/~ofa). The scholarship application deadline is February 1 of the academic year. Students who wish to be considered for scholarships must also complete the admissions application requirements by February 1.

### INTERNATIONAL STUDENTS

International students are not eligible for Federal financial aid. International students maybe eligible for University-sponsored scholarships listed on the financial assistance website at <http://www.nku.edu/~ofa/>. Please note any citizenship or residency requirements.

### COMMUNITY SERVICE

Students eligible for the Federal Work-Study program have the opportunity for employment in designated community service positions. The community service positions are both on and off campus and range from childcare development to tutoring in schools.

### APPLICATION PRIORITY DATES

To be considered for aid for the academic year or for fall semester only, **SUBMIT THE REQUIREMENT FORM BY MARCH 1.**

Application submitted after the priority date will be considered if funds are available.

TERM	PRIORITY DATE
Fall Semester	March 1
Spring Semester	November 1
Summer	February 1

Complete the application form correctly—errors will delay the processing and could affect eligibility for receiving assistance.

### AWARD NOTIFICATION

If you submit your application materials on time and according to the instructions, you will receive notices from three different sources: the federal government, the Kentucky Higher Education Assistance Authority (KHEAA), and NKU.

The federal government will send you a Student Aid Report (SAR) informing you of your eligibility for a Pell Grant.

KHEAA will send you a notice indicating your eligibility for a KHEAA CAP Grant. Receipt of this notice does not guarantee that you are eligible for the KHEAA CAP Grant to attend NKU.

NKU will notify you once your financial aid award has been posted to Norse Express. This will include an estimate of your Pell Grant and KHEAA CAP Grant and any other financial aid for which you are eligible (i.e. student loans, etc.). Some financial aid awards will be made before residence hall assignments; thus, your financial aid award may not reflect true expenses for the academic year. If you feel that you may fall in this category, please contact our office in person (preferable) or in writing after you receive your residence hall assignment.

It is important for you to understand that all financial aid awards are dependent upon institutional, private, state, and/or federal funding. Although we fully intend to be able to adequately fund any commitments which are made to you, circumstances can change. Notification of any change to financial aid awards will be sent to the student.

Remember, even if you are notified you are ineligible for a Pell Grant or KHEAA CAP Grant, you may be eligible for assistance through other aid programs. Various types of financial aid to NKU students can be found on the financial aid website at [www.nku.edu/~ofa/](http://www.nku.edu/~ofa/).

If you want additional information concerning the financial aid process, please contact the Office of Student Financial Assistance, AC 416, visit our web site at [www.nku.edu/~ofa/](http://www.nku.edu/~ofa/) or e-mail at [ofa@nku.edu](mailto:ofa@nku.edu).



# TUITION AND FEE SCHEDULE

## BURSAR OPERATIONS

Bursar Operations, located on the second floor of the Lucas Administrative Center, is responsible for assessment and collection of student tuition and fees. Regular hours during fall and spring semester are 8:00 a.m. to 6:30 p.m. Monday through Thursday and 8:00 a.m. to 4:30 p.m. Friday. Hours during summer session are 8:00 a.m. to 4:30 p.m. Tuesday, Wednesday, and Friday; 8:00 a.m. to 6:30 p.m. Monday and Thursday. Hours are subject to change as necessary; see directory outside the office.

*In addition, the office provides a check-cashing service to all faculty, staff, and students. Tuition rates and mandatory fees are approved by Northern Kentucky University's Board of Regents. Tuition rates do not include parking fees or specific course/lab fees.*

## TUITION RATES

For 2004-2005 Tuition Rates see NKU website:  
<http://access.nku.edu/bursar/>

## TUITION POLICY

Students are advised to complete all undergraduate prerequisites before applying to graduate programs; students will be assessed at the highest level to which they are currently admitted. Students will be charged undergraduate tuition for courses taken at the 300-, 400-, and 500-levels if not yet admitted to the graduate level. However, once students are admitted to the graduate level, they will be charged graduate tuition for all courses taken, regardless of level. A separate fee of \$25.00 is charged for undergraduate and graduate applications.

## NORTHERN INSTALLMENT PLAN

An installment payment plan is available to students for each semester. The plan requires a \$30 application fee with one-half of the charges due at the time an application is completed. The first payment is due in accordance with the payment schedule. The remaining balance is due in two installments approximately 30 and 60 days after the semester begins. All charges are collectable regardless of current enrollment status and are subject to the refund policies of the university. Late charges are assessed for late payment. For more information, contact Bursar Operations, Lucas Administrative Center 238; phone 859-572-5204.

## FEES 2004-2005

### Application Fee

A \$25.00 non-refundable fee will be assessed to all applicants applying for admission.

### Audit Fee

Individuals auditing a course are charged the same tuition and fee assessment as though they were taking the course for credit.

### Auto Registration Fee

An auto registration fee is charged to students who park on campus. See NKU website: <http://access.nku.edu/bursar>

### Course Fees

Certain courses as noted in *Schedule of Classes* have fees depending on the course. The number of fees charged is minimal.

### Late Registration

A \$25.00 late registration fee will be assessed for all students who register during late registration.

### Music Fee

In addition to the appropriate tuition charge, an additional fee is

charged per 1/2 hour lesson each week for a semester. Fee is assessed for private instruction in applied music.

## HOUSING RATES 2004-2005

For housing options, see NKU website: <http://access.nku.edu/housing>. For housing rates see NKU website: <http://access.nku.edu/bursar/>.

## TO BE ELIGIBLE FOR STUDENT HOUSING YOU MUST BE A REGULARLY ENROLLED FULL-TIME STUDENT

## TUITION AND FEES PAYMENT

Before a student will be permitted to register, any prior financial obligations to the University must be paid in full.

## REGISTRATION AND PAYMENT DUE DATES

Full payment of tuition and fees is due during the first week of classes of each term. Students not paying in full by the due date will have their registration canceled.

Deferments of tuition payments are granted to students receiving certain types of financial assistance such as grants, loans, and scholarships. All amounts owed the University will be deducted at the time financial aid checks are distributed.

If an account remains unpaid and is referred for collection, the student is liable for all attorney's fees and related costs and charges incurred by NKU for collection of the obligation.

## FINANCIAL AUDIT

Fee assessments are subject to audit at any time throughout the academic career of the student. A student who does not pay the additional sum assessed (e.g., a change in residency or addition of courses) after notification of the additional charges will be placed on hold, preventing the student from obtaining transcripts and other services. 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 collection of the obligation.

## FINANCIAL AID RECIPIENTS

Students receiving financial aid may obtain a temporary deferment of tuition and fees if the financial aid process is complete. At the time financial aid checks are distributed, the bursar will deduct any balance due the University.

## REFUNDS — UNIVERSITY POLICY \*

- Students officially withdrawing from all courses on or before the last day to register are eligible for 100% adjustment of assessed tuition. Students dropping courses on or before the last day to register, reducing their course load from full-time to part-time status, are entitled to a 100% adjustment of tuition for the courses dropped.
- Students officially withdrawing from all courses after the last day to register but through the last day to drop a course without a grade appearing on the student's record are eligible for a 50% adjustment of assessed tuition. Students dropping courses during this period, reducing their course load from full-time to part-time status, or further reducing their part-time status, are entitled to a 50% adjustment of tuition for the courses dropped.

\* Refund policy was in the process of revision at time of catalog printing. To view current refund policy, check the following website: <http://access.nku.edu/bursar/feesschedule.htm#Refund>.

# UNIVERSITY AND STUDENT SERVICES

## ADULT LEARNER SERVICES

University Center 366 and 118  
859-572-6497  
Fax 859-572-6496 (UC 118)  
or 859-572-5347 (UC 366)  
[www.nku.edu/~adultlearner/](http://www.nku.edu/~adultlearner/)

Adult Learner Services serves enrolled undergraduate, graduate, or professional students who are 25 years old or older or have role(s) of parent/guardian, spouse/partner, veteran, full-time worker, career changer/displaced worker, or re-entering NKU students who have been out of school four (4) or more consecutive years.

Direct Student Services include: Individual consultations for adult learners seeking assistance to reach their educational goals; group support through TALKS (Together Adult Learners Know Success); computer skill development through BYTE (Begin Your Technology Education); liaison services for WIA (Workforce Investment Act) funded students; and Individual Case Management Retention Program for K-TAP (Kentucky Temporary Assistance Program) funded students.

## AFRICAN AMERICAN STUDENT AFFAIRS AND ETHNIC SERVICES

University Center 352  
859-572-6684  
[www.nku.edu/~aasa/](http://www.nku.edu/~aasa/)

The Office of African American Student Affairs and Ethnic Services is responsible for designing and implementing services and cultural programs to promote a diverse campus and support the satisfaction and success of African American students and students from other ethnic minorities. The Office works with individual students, student organizations, faculty, and staff to meet the needs of these students.

## ATHLETICS

Albright Health Center 250  
859-572-5193  
Fax: 859-572-6089  
[www.nku.edu/~athletics/](http://www.nku.edu/~athletics/)

The Intercollegiate Athletics Program provides a natural extension of secondary school programs, offering skilled student-athletes the opportunity to continue their educational and athletic experiences beyond high school. Membership in the National Collegiate Athletic Association Division II and Great Lakes Valley Conference, and adherence to the governing philosophies and regulations of these bodies, provide a framework for implementing this mission of the Department.

NKU sponsors intercollegiate competition in thirteen varsity sports, six for men (baseball, basketball, cross country, golf, soccer, and tennis) and seven for women (basketball, cross country, golf, soccer, softball, tennis, and volleyball). In addition the Department has two co-ed cheerleading teams, and offers numerous student employment opportunities. All totaled, nearly 250 students are directly involved in the Intercollegiate Athletics Program.

## BOOKSTORE

University Center Ground Floor  
859-572-5142  
[www.nku.bkstr.com](http://www.nku.bkstr.com)

Hours: Monday-Thursday 8:30 am-6:30 pm  
Friday 8:30 am-4:00 pm  
Saturday 11:00 am-2:00 pm

Extended Hours: At the Beginning of Fall & Spring Semesters

Course Book Refunds: Course materials, new or used, can be returned for a full refund within 7 days of the first day classes. You must

have your original sales receipt to obtain a refund. Refunds will also be granted for a period beyond 7 days, to accommodate schedule changes, if proof of the dropped course is presented with the receipt. Book Buyback: Everyday.

## CAMPUS RECREATION

Albright Health Center 104  
859-572-5197  
Fax: 859-572-6090  
[www.nku.edu/~camprec/](http://www.nku.edu/~camprec/)

The Department of Campus Recreation offers a variety of programs to keep NKU students mentally, physically and spiritually healthy. These programs include intramural sports, group exercise classes, wellness programs, instructional programs, club sports, and outdoor adventures. The vast majority of the programs are offered free of charge or require a small fee or deposit. In addition to these programs, the Campus Recreation Center (CRC) and Outdoor Recreation Complex (ORC) are also available for informal recreation opportunities. The CRC includes a new, state-of-the-art fitness center with free weights, plate-loaded weight machines, selectorize weight machines, cardiovascular equipment and a full Cardio Theater; a main activity area with three full-sized basketball courts that can also be used for volleyball and badminton; a 1/9 mile four-lane indoor track; racquetball/wally ball courts; a pool with three diving boards; and a dry heat sauna. Locker rooms are available and lockers can be rented for a small fee. Memberships are also available for parents, spouses and/or dependents directly related to an enrolled student at very reasonable rates.

## CAREER DEVELOPMENT CENTER

University Center 230  
859-572-5680  
Fax: 859-572-6996  
[www.nku.edu/~cdc/](http://www.nku.edu/~cdc/)  
[cdc@nku.edu](mailto:cdc@nku.edu)

The Career Development Center offers an integrated program of career development services, including career planning, Cooperative Education, career employment, and resume assistance. Most services are available free of charge to NKU students and NKU alumni. Assessment testing is offered for a fee to currently enrolled NKU students and NKU alumni. This department serves as the university liaison to many local corporations and organizations, including the on-site Fidelity Investments Customer Call Center.

Cooperative Education (Co-Op), provides employment experiences that integrate classroom studies with paid, productive, real-life work experience in the related field. Through the NKU Co-op program, students can get the best of both worlds: a high quality academic degree and an impressive resume of practical work experience.

## COMPUTER LABS WITH ACCESS TO NORSE EXPRESS

AST 370 (50 Macs and 80 PCs)  
NS 430 (6 PCs)  
Residential Village, Kentucky Hall Lobby Loft (8 PCs)  
Departmental Labs (various), see your chair

## CREDIT CONTINUING EDUCATION

Old Science Building, Room 305A  
859-572-5601  
[http://www.nku.edu/~cont\\_ed/](http://www.nku.edu/~cont_ed/)

The Office of Credit Continuing Education at NKU works with businesses and the local community to create opportunities for students to receive college credit in a variety of non-traditional ways, such as: a

Portfolio Development Program to assist students who wish to earn college credit for their prior learning; a number of extension/site classes that allow students to take classes at convenient, off-campus locations; and an Emergency Medical Technology program that prepares students to take the National Registry-Basic Examination.

### DEAN OF STUDENTS OFFICE

University Center 346  
859-572-5147  
Fax: 859-572-6173  
deanstudents@nku.edu  
www.nku.edu/~deanstudents/

The Student Development unit represents the core student service areas that promote the learning and personal development of students through an array of supportive services, programs, activities, and facilities designed to promote active student involvement in the life of the institution, and responsible citizenship in the campus and surrounding community. The Dean of Students Office provides leadership and supervision of Campus Recreation, Career Development Center, Educational Talent Search, Health, Counseling and Prevention, Student Life, Student Organizations, Student Media, Student Support Services, Testing and Disability Services, University Center, University Housing, and Upward Bound.

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 system and student grievance processes. This Office is an Ombudsman Service contact point for students who have problems, issues, or concerns that have not been addressed through other avenues. For information concerning the Code of Students Rights and Responsibilities, please check the Dean of Students web site.

### DISABILITY SERVICES

University Center 320  
859-572-6373 Disability Services  
859-572-5751 Intake Counselor  
www.nku.edu/~disability/

NKU is an area leader in providing comprehensive programming and accommodation services to students with disabilities. Buildings and campus facilities are strategically located in a close geographical area providing easy accessibility for the disabled. A wide variety of disability services and support programs are available to students with special needs. Services and programs through the Office of Disability Services include: consultation for disability issues for faculty, staff, and students; disability verification; certification of reasonable academic accommodation for NKU; individual counseling and advising; advanced priority registration; disability education; interpreters service; liaison with outside agencies; Kurzweil 3000 Reading Program; and test proctoring. Students must register with the Office of Disability Services to receive academic accommodations at NKU. NKU also provides tutorial services, developmental classes, writing center, math lab, speech lab, and computer labs.

### EARLY CHILDHOOD CENTER

Business-Education-Psychology 147  
859-572-6338  
www.nku.edu/~ecc/

The NKU Early Childhood Center serves children of NKU students, faculty, and staff as well as members of the community. All children must be fully potty-trained by enrollment date. The Center has a 7:30 a.m. to 5:00 p.m. weekday pre-school, pre-kindergarten and childcare program and a Monday through Thursday evening program which serves children ages 2 through 12. The Early Childhood Center is licensed and regulated by the Kentucky Cabinet for Families and Children.

### E-MAIL

Visit <http://www.nku.edu/~it/email/> for further information about how to access your FREE NKU email account or to learn how to forward your NKU email to your current email account. It is extremely important that you check your NKU email frequently, as the University relies upon it to communicate with students, faculty, and staff in a timely manner. Concerns about accessing email may be addressed by phoning the Information Technology Help Desk at 859-572-6911.

### FINANCIAL ASSISTANCE

Lucas Administrative Center 416  
859-572-5143 or Toll Free 1-800-225-4499  
Fax: 859-572-6997  
ofa@nku.edu  
www.nku.edu/~ofa/

The Office of Student Financial Assistance is committed to helping the many students who are finding it increasingly difficult to afford a college education without some financial help. Northern Kentucky University participates in a variety of programs designed to assist students in need of financial aid to meet tuition and living expenses. The Office of Student Financial Assistance is responsible for administering and coordinating these assistance programs.

### HEALTH, COUNSELING AND PREVENTION SERVICES

University Center 300  
859-572-5650  
www.nku.edu/~hcp/

Health, Counseling and Prevention Services 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. Limited medications are available, as well as free testing for hearing, vision, diabetes, blood pressure, and pregnancy. Bi-monthly reproductive health clinics, staffed by the Northern Kentucky District Health Department provide free pap exams, STI and HIV testing, and birth control options to students. Mental health professionals provide assessment, diagnosis and treatment for a variety of crisis, adjustment, relationship, and general mental health issues. Health, Counseling and Prevention Services staff are also available for educational programming addressing mental and physical health needs of students. Faculty and staff are encouraged to consult with the staff regarding specific student needs.

### IDENTIFICATION (ID) CARD

All-Card Administration  
University Center 115  
859-572-6016  
<http://access.nku.edu/allcard/>

Imprinted with your photograph and assigned student ID number, the NKU All-Card is your official University identification. It also grants access to: NKU Email Account, Health Center, Copies (50% discount), Parking Garage (50% discount), Library Card, and Dining (discounted). All-Cards are automatically activated each semester for the duration of your attendance. If you are a new student, visit the All-Card office after classes begin to receive your ID card. Immediately report a lost or stolen card to the All-Card office; replacement cards may be obtained for a fee.

### INTERNATIONAL STUDENT AFFAIRS

University Center 366  
859-572-6517  
Fax: 859-572-6178  
isa@nku.edu  
www.nku.edu/~isa/

The Office of International Student Affairs (ISA) serves all non-immigrant and permanent resident students attending the University. In addition to recruitment and admissions for non-immigrant foreign applicants, the office staff offers support for international students, and

guides them in their relations within and outside the University community so that they can successfully achieve their academic goals. The ISA office is also the responsible office for F-1 related immigration advice and procedures.

### **KENTUCKY TRANSITIONAL ASSISTANCE PROGRAM (K-TAP)**

University Center 366A  
859-572-5988  
Fax: 859-572-5347  
[www.nku.edu/~ktap/](http://www.nku.edu/~ktap/)

Serves students who are receiving K-TAP funds; provides quiet study area for K-TAP students; offers use of computer and printer for academic work; provides weekly groups for peer support; provides bi-weekly contact with community case managers on-site at NKU; and facilitates student employment for K-TAP recipients. Coordinator is available Monday through Friday from 8:00 am to 2:30 pm.

### **LATINO STUDENT AFFAIRS**

University Center 352  
859-572-5821 or 859-572-6684  
Fax: 859-572-6161  
[www.nku.edu/~latinoaffairs/](http://www.nku.edu/~latinoaffairs/)

The Office of Latino Student Affairs coordinates cultural and social activities with the NKU Student Group "Amigos," Latin America Awareness Group, Affirmative Action and Multicultural Affairs, International Student Affairs and other organizations. The office is also developing a mentor program for students and partnerships with Latino organizations in Kentucky and Ohio. The Office of Latino Student Affairs serves as a consultant to businesses, K-12 educators and public service agencies, as a bilingual resource for NKU, and coordinates the Latino Community Outreach Advisory Council.

### **LEARNING ASSISTANCE PROGRAM**

See "ACADEMIC SUPPORT (TUTORING) PROGRAMS" on page 144.

### **LIBRARY**

Steely Library  
859-572-5456  
[library.nku.edu](http://library.nku.edu)  
[refdept@nku.edu](mailto:refdept@nku.edu)

Hours/fall & spring: Monday-Thursday 8:00 am-midnight  
Friday 8:00 am-4:30 pm  
Saturday 11:00 am-5:00 pm  
Sunday 1:00 pm-midnight

Study lounge: Sunday-Thursday Open until midnight

Steely Library's faculty and staff are available to assist students in the use of its collections of books, periodicals, microforms, government documents, and electronic databases, many with full-text access. Services include access to the Internet, campus e-mail, research assistance, and interlibrary loan. Students may also use their ID and proof of current registration to borrow materials from area libraries which are members of the Greater Cincinnati Library Consortium (GCLC). Group study rooms and a quiet study area are available. Hours will vary during University holidays and between semesters.

### **OMBUDS SERVICE TEAM**

*Dean of Students Office*  
University Center 346  
Contact: Steve Meier 859-572-5771

### *Vice President for Student Affairs Office*

Lucas Administrative Center 838  
Contact: Dana Freer 859-572-5403

The Ombuds Service Team serves to help guide students through the University's policies and procedures for resolving problems. The Team meets with students, hears their concerns and counsels them on how they should proceed. They also serve as one of the first points of contact for sexual harassment complaints. The Team welcomes student comments and suggestions regarding all facets of the University. Students may call or stop by to see either of the Ombuds contacts.

### **ORIENTATION**

Lucas Administrative Center 400  
859-572-5870 or Toll-free at 800-637-9948  
[orientation@nku.edu](mailto:orientation@nku.edu)  
<http://www.nku.edu/~admitnku/Transitions/index.htm>

The Office of New Student Orientation coordinates the periodic TRANSITIONS programs for all new freshmen students. TRANSITIONS is Northern Kentucky University's one day program of orientation, academic advising and course registration. The Office of New Student Orientation is committed to helping freshmen students make a smooth transition to college and provides students with valuable information regarding university resources. Parents of freshmen are encouraged to attend; special sessions to address their concerns run concurrently with the students' program. During Transitions, students have the opportunity to tour campus, talk with current students, learn about campus / Greek life, intercollegiate athletics, the Learning Assistance Center, financial assistance, residential life, resources for students over age 25, student activities, and tutoring.

### **REGISTRAR**

Lucas Administrative Center 301  
859-572-5556  
Fax: 859-572-6094  
[registrar@nku.edu](mailto:registrar@nku.edu)  
[www.nku.edu/~registrar/](http://www.nku.edu/~registrar/)

The Registrar's Service Center assists students via registering for and dropping/adding of courses using Norse Express for Students; cross registration through Greater Cincinnati Consortium of Colleges and Universities; and processing requests to audit, pass/fail, or repeat courses, Declaration/Certification of Major, Minor, and Area of Concentration, Applications for Degree, Transcripts, Student Information Changes, and Enrollment Verification.

### **STUDENT AFFAIRS**

Office of the Vice President  
Lucas Administrative Center 836  
859-572-6447  
Fax: 859-572-1310  
[www.nku.edu/~vpsa/](http://www.nku.edu/~vpsa/)

The Division of Student Affairs provides an array of programs, services, activities, and facilities that promote academic achievement, student involvement, personal awareness, social and interpersonal development, leadership, and responsible citizenship. The Vice President for Student Affairs provides administrative leadership for the Division. The Division is organized into three units that encompass Intercollegiate Athletics, Student Development, and Student Services.

This office is an Ombudsman Service contact point for students who have problems, issues, or concerns that have not been addressed through other avenues. It is also the initial point of contact for students who need to report that they have been sexually harassed by a University employee or fellow student.

### **STUDENT INFORMATION**

Northern Kentucky University, consistent with the Family Educational Rights and Privacy Act of 1974, as amended, designates the following categories of student information as public or "Directory Information." (This information may be disclosed by the institution for any purpose):

1. Name, address, telephone number, dates of attendance, class.
2. Previous institution(s) attended, major field of study, awards, honors (includes Dean's list), and degree(s) conferred (including dates).
3. Past and present participation in officially recognized sports and activities, physical factors (height, weight of athletes), date and place of birth.

Currently enrolled students may request withholding disclosure of any category of information. NKU assumes failure by any student to specifically request the withholding of categories of "Directory Information" indicates individual approval for disclosure. For further information, write or visit the Office of the Registrar Service Center, Lucas Administrative Center 301, Nunn Drive, Northern Kentucky University, Highland Heights, KY 41099.

## STUDENT LIFE

University Center 10  
859-572-6514  
Fax: 859-572-5774  
studentlife@nku.edu  
www.nku.edu/~studentlife/

The Office of Student Life serves as the coordinating office for the Northern Kentucky Leadership Institute; Activities Programming Board; Student Organizations; Fraternities and Sororities; Norse Force; Norsin' Around; Norse Leadership Society; and "N3"- Norse News Network, a weekly electronic newsletter delivered to all NKU students. Student Life provides a variety of co-curricular events each year, including lectures, concerts, educational programs, and other opportunities for social interaction.

## STUDENT MEDIA

University Center 217  
859-572-5690

Student Media provides budgetary and advisory support to all student-run media, including WRFN, WNTV, *The Northerner*, *Licking River Review*, *Lost Cause Review* and *NKU Expressed*. Student Media serves the interest of all students by helping ensure the smooth operation of student-run, independent media, consistent with the guidelines established by the Student Media Handbook.

## STUDENT SUPPORT SERVICES

Business-Education-Psychology 209  
859-572-5138  
Fax: 859-572-5336  
sss@nku.edu  
www.nku.edu/~sss/

Student Support Services (SSS), a federal TRIO program funded through the US Department of Education, is designed to increase the academic performance, retention rates, and graduation rates of student participants. Annually, it serves over 230 students who demonstrate a need for academic support and meet program eligibility requirements (based on family income, first-generation college status, or disability). SSS offers academic advising, instructional classes, career/major counseling, personal support, technology access and training, academic support programs, Supplemental Instruction, financial aid counseling and assistance, mid-term progress reports, and social/cultural activities. Applications are available by contacting the office or visiting its website.

## TESTING SERVICES

University Center 320  
859-572-6373  
Fax: 859-572-5874  
www.nku.edu/~testing/

Testing Services provides academic and admission testing throughout the college experience. Admissions tests include the National and Residual ACT and computerized COMPASS (for non- traditional

students). Placement testing in Mathematics, Reading, and English is administered in connection with Transitions. Other tests offered are computerized CLEP (College Level Exam Placement), the Senior Assessment Survey, PRAXIS (Professional Assessments for Beginning Teachers), PPST (Pre.-Professional Skills Test), and LSAT (Law School Admissions Test).

## TRANSCRIPTS-OFFICIAL

Registration Service Center  
Lucas Administrative Center 301  
859-572-6429  
Fax: 859-572-6094

Transcripts of NKU coursework are available upon request without charge. Students must provide identification to obtain copies. Transcripts from institutions other than NKU which were submitted for admission purposes or credit evaluation will not be copied or returned to students. They must be obtained from the originating institution. For specific information regarding obtaining a copy of your transcript, you may call the transcript information line listed above. Students may access their grades and print unofficial transcripts via *Norse Express Web*. Immediate processing of transcript requests between May 7 through 21 will not be provided to currently enrolled students. Grade reports will not be mailed unless requested by the student via *Norse Express*. If requested, grade reports will be mailed within 7 working days of the grade submission.

## UNIVERSITY CENTER

Information Center  
UC 100A  
859-572-6103  
www.nku.edu/~uc/

The University Center houses a variety of support services that are available to students and members of the University Community. A listing of these services and a facility directory can be found on the University Center web page. Also included in the facility are several meeting rooms, ballroom, cafeteria, TV lounge/game room and the newly renovated Otto Budig Theater. Room reservations for these areas can be made by calling 859-572-5760. The Information Desk, located on the 1st floor plaza level, serves as the University lost and found.

## UNIVERSITY HOUSING

NC 101  
859-572-5676  
www.nku.edu/~housing/

University Housing provides residential services for students who decide to live on-campus during the school year. The facilities contain traditional residence hall rooms as well as apartment and suite-style living, lobby areas, information desks, computer labs, televisions, vending areas, loft/study areas, and space for student recreation. The Residential Hall association represents resident students to the Office of Residential Life and to the Student Government Association. It serves as a sponsor of Residential Village events and reviews and recommends Residential Life policy change.

## VETERAN'S SERVICES

Lucas Administrative Center 308  
859-572-6625  
Fax: 859-572-6094  
registrar@nku.edu  
http://www.nku.edu/~registrar/veteranservices.html

All degree programs at NKU are approved for students using the G. I. Bill. Students eligible for veterans educational benefits should contact the Veteran's Services Coordinator prior to registration.

# ACADEMIC REGULATIONS

## ALCOHOL AND DRUG ABUSE POLICIES AND EDUCATIONAL PROGRAMS

NKU respects the integrity and total development of its students and recognizes the educational importance of all co-curricular experiences in which students participate. It also joins with the Drug-Free Schools and Campuses Bill (34 CFR Part 86) in offering programming for students about alcohol and substance abuse.

NKU prohibits unlawful possession, use, or distribution of drugs and alcohol on its property or as part of its activities. A clear statement of unacceptable conduct and consequences related to substance abuse is found in NKU's student handbook, *Code of Student Rights and Responsibilities*, and is restated below.

Students may be accountable to civil authorities and the University for acts that constitute violations of law and of this 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, or possession for purposes of distribution, or use of any controlled substance or illegal drug, as defined by Kentucky Revised Statutes, Chapter 218A, on University premises or at University-sponsored activities manifested under 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; and aiding and abetting any conduct described above.

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

Recognizing that alcohol and drug abuse is a serious problem in our society, NKU offers a variety of educational and assistance programs to the student population. An alcohol/drug abuse awareness week is held twice annually. An Alcoholics Anonymous meeting is held weekly on campus. Residence hall programs on drug and alcohol abuse are held annually. Alcohol/drug training sessions are held annually for residence hall assistants. Information and literature on substance abuse are available in the Student Health Office, University Center 300. Students who may have alcohol or other substance-abuse problems can be assisted for confidential evaluation and referral to appropriate community agencies.

The Women's Center is a resource center for faculty, staff, and students. The office staff is available to assist with and conduct programming for university classes, residential hall activities, and campus-wide events. The focus of this office is to create a drug-free environment by raising awareness of drug and alcohol issues and promoting healthy life choices.

Early recognition, intervention, and treatment for substance abuse are necessary to avoid compromises in physical and mental health. Health risks associated with substance abuse include but are not limited to physical dependence, psychological dependence, tolerance, alterations in the immune system, digestive problems, liver complications, neuropsychological complications, nutritional deficiencies, certain cancers, cardiovascular complications, nasal septal deterioration, respiratory complications, an increased risk of contracting sexually transmitted diseases, placenta transfer resulting in low birth weight, mental retardation, congenital malformation, and neonatal addiction.

In addition, moral deterioration and deterioration of personal relationships, impaired learning, violence, injuries, accidents, drunk driving, acquaintance rape, and unwanted pregnancies may result. Without early intervention and treatment, death may occur.

For further information on substance abuse, phone the Counseling Office, University Center 320, at 859-572-6373.

## ADDING OR DROPPING A COURSE

The University *Schedule of Classes* lists the dates when a student may add a course or withdraw from a course after completing registration. Drop/add may be accomplished via Norse Express for Students, or in person at the Registrar Service Center, AC 301. Drop/add transactions are not official unless processed by one of these methods. The regulations below apply to regular courses in fall and spring semesters. They also apply to all short courses, especially summer offerings, in a time sequence proportional to the length of the session. When adding courses, see course-load policy for allowable limits.

### 1. Course Withdrawal Grade Policy

Students may withdraw from one or more courses only during the semester in which the course or courses are taken. The following procedures apply:

- a. During the first three weeks of the term, official course withdrawals will not be reflected on the student's transcript. An instructor may initiate a withdrawal for any student who does not attend classes during this three-week period.
- b. From the fourth week through the tenth week or equivalent, official course withdrawals will be assured a grade of *W* (withdrawal). The *W* will appear on the student's transcript but will not be computed in the grade point average (GPA).
- c. Course withdrawals after the tenth week or equivalent will not usually be allowed. In circumstances beyond the student's control, a *W* may be granted with approval of the instructor, the appropriate chairperson, and the student's dean whose college offers the course. In cases not approved, the student will receive the grade of *F* (failure).
- d. Students withdrawing completely from school after the tenth week need only the approval of the dean of the student's major on the late withdrawal form.
- e. The instructor may not issue a *W* as the final grade for students who did not withdraw prior to the tenth week or equivalent of classes or who are not covered by exceptions listed above.
- f. A student who for two consecutive semesters registers for 9 or more semester hours and completely withdraws each semester will not be permitted to register for courses at NKU unless he/she petitions the Registrar in writing.
- g. The above regulations apply to fall, spring, and summer semesters.
- h. The last dates to add or withdraw from a course will be printed in the *Schedule of Classes*.
- i. A student in the military reserves called into active status on an emergency basis who cannot complete course work for a given semester
  1. will receive a withdrawal in each course with full refund if call-up is within the first 12 weeks of the semester.
  2. 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, or
  3. will receive the grade earned to date in each course if call-up is in the 15th or 16th week of the semester.

The student should present his or her orders at the Registrar Service Center 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 a copy of the orders in the student's absence. If this deadline is not met, the student's grades would 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 *W* in all courses.

## ACADEMIC APPEALS

Appeals to academic regulations are defined in the *Code of Student Rights and Responsibilities*. See <http://www.nku.edu/~deanstudents/Rights-Contents.htm> for information and procedure.

## ACADEMIC TRANSCRIPT REQUEST

All requests for academic transcripts must be signed by the student and submitted to the Office of the Registrar. For specific information on requests for transcripts, please phone the transcript information line at 859-572-5556.

## ACADEMIC COMMON MARKET

The Academic Common Market allows out-of-state students to pay in-state tuition while studying selected academic programs that are not available in their home states. The list of programs included in the Academic Common Market is revised periodically to reflect the changing needs and offerings of participating states. The 15 states that participate in the Academic Common Market are Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia. For more information, contact the Academic Common Market Institutional Coordinator, Administrative Center (AC) 505, Northern Kentucky University, Highland Heights, KY 41099, 859-572-6578.

## CATALOG APPLICABILITY

### Catalog Applicability for Undergraduate Students

1. The curricular requirements stated in the catalog in effect when a student enters the University as a degree-seeking student, or in any subsequent catalog chosen, must be met. If a student chooses a subsequent catalog, this intention must be in writing to the Office of the Registrar, AC 301. The student must satisfy all institutional and program requirements for the desired degree under any subsequent catalog selected.
2. If a student's progress toward a degree is interrupted for four or more academic years from the last time he or she was regularly enrolled, all curricular requirements, both institutional and program, of the catalog in effect upon re-entry to the University must be met.
3. Except in unusual circumstances, the requirements of one catalog may be followed for no more than eight consecutive academic years from the time the student first enrolled. For all institutional and program requirements for a degree, the student will normally follow the catalog succeeding the one just expired unless the student designates in writing, to the Office of the Registrar, AC 301, a more recent catalog. Students should consult their academic adviser to determine their catalog of applicability.
4. Appeals to these regulations can be made to the appropriate academic dean.

## CHANGES IN ACADEMIC POLICIES/PROCEDURES

The University reserves the right to implement new policies/procedures deemed necessary to ensure compliance with those currently in effect.

## CLASS ATTENDANCE

Classroom participation is essential to the educational process in many disciplines. However, students may not be penalized with a lowered grade merely on the basis of non-attendance unless class participation is clearly essential to the educational goals of the course. If this is the case, students must be informed of the necessity to participate in classroom activities. This information must be given to them no later than the fifth day of the semester. In any case, students are responsible for familiarity with material disseminated in the class and are not released from this responsibility because they cease to attend. It is assumed that students will be aware of the calendar deadlines for officially withdrawing from a course. If students do not officially withdraw prior to this deadline, and

fail to successfully complete the required course work, a failing grade will be recorded.

## COURSE NUMBERING

Courses numbered 000 to 099 are orientation or developmental and may not be applied toward a student's classification or toward a degree. Course's numbered 100 to 199 are usually for freshmen; 200 to 299, usually for sophomores; 300 to 499, usually for juniors and seniors; 500 to 599, for juniors, seniors, and graduate students (unless specified elsewhere in this catalog); and 600 to 699, for graduate students only.

## COURSE PREREQUISITES AND COREQUISITES

A prerequisite is a requirement that must be satisfied before enrolling for a specific course. Students should not enroll in courses for which they lack the stated prerequisites. Students lacking the prerequisites may be withdrawn from these courses upon request of the instructor and/or academic department.

A corequisite is a course that must be taken in conjunction with another course. Students must enroll in corequisites during the same semester or summer session. A student enrolled in a course but not its corequisite will be withdrawn from that course upon request of the instructor and/or academic department.

## STIPULATED AND RESTRICTED ADMISSION STUDENTS COURSE TAKING POLICY

Students with any academic deficiency, ACT/SAT or Pre-College Curriculum, will be required to enroll each semester in at least one course that fulfills an academic deficiency until all academic deficiencies are successfully completed.

Students must successfully complete all academic deficiencies prior to completing 45 earned hours. Should students fail to complete all academic deficiencies by 45 earned hours, they will not be permitted to continue enrollment at NKU. Students may attend another college to take courses which meet their academic deficiencies and then later return to NKU to finish their degree.

## FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT OF 1974

To the student:

In accordance with federal law, you have the right to inspect and review any and all official University records, files, and data incorporated in your cumulative record. You have the opportunity for a hearing to challenge the contents of these records to insure that they are accurate and not in violation of any of your rights. You also have the opportunity to correct, amend, or supplement any such records.

The only information that may be given out about you is directory information as defined in the Act unless you have specifically waived your rights within this act. If you have any questions concerning your rights within this act, please contact the Office of the Registrar, Northern Kentucky University.

For more information, please phone 859-572-5556.

## GREATER CINCINNATI CONSORTIUM OF COLLEGES AND UNIVERSITIES (GCCCU)

General Information

Through an agreement with the Greater Cincinnati Consortium of Colleges and Universities, students at NKU may register for courses offered by other Consortium institutions. Course credit and/or grades will be posted on the transcript.

Half-time students at NKU may take up to 6 additional semester hours through the consortium. The cumulative total number of consortium semester hours is limited to 12.

Graduate students are allowed 9 semester hours of combined transfer and consortium credits. Each program director has the discretion to accept an additional 3 semester hours of consortium-only credit, bringing the

maximum possible non-NKU semester hours to 12. Any student denied the final consortium courses has the right of appeal through regular program and University channels.

Cross registration forms are available in the Office of the Registrar. Courses for credit toward an academic major must be approved by the chairperson of the major department.

Courses for general education credit must be approved by the College of Arts & Sciences.

Other than regular tuition charges at NKU, students will be required to pay course-related fees at the host institution. Catalogs and schedules of classes are available in the Office of the Registrar.

### Member Institutions

Member institutions of the Greater Cincinnati Consortium of Colleges and Universities include

Art Academy of Cincinnati  
Athenaeum of Ohio  
Chatfield College  
Cincinnati Bible College and Seminary  
Cincinnati State Technical and Community College  
College of Mt. St. Joseph  
Hebrew Union College/Jewish Institute of Religion  
Miami University  
Northern Kentucky University  
Southern State Community College  
Thomas More College  
University of Cincinnati  
Wilmington College  
Xavier University

Through an agreement between the Greater Cincinnati Consortium of Colleges and Universities and Southwestern Ohio Council for Higher Education, NKU students may register for courses offered by the latter in fall and spring semesters if the courses needed are not available at the GCCCU schools. The same regulations apply as for the Greater Cincinnati Consortium.

The Southwestern Ohio Council for Higher Education includes  
AFIT/RRD  
Antioch College  
Central State University  
Clark Technical College  
Edison State College  
Kettering Medical College  
Sinclair Community College  
Southern State College  
United Theological Seminary  
University of Dayton  
Urbana College  
Wilberforce University  
Wittenberg University  
Wright State University

### Guidelines:

1. Student enrollment between NKU and the consortium institution in fall or spring semester must be half-time (6 semester hours for undergraduate, 5 semester hours for graduate students); summer students must have been at least half-time during the preceding spring semester. Students must be degree-seeking and may enroll for no more than two courses at the host institution in one semester.
2. The course(s) requested must not be offered at Northern for one academic year, unless the student has officially applied for graduation with the Office of the Registrar.
3. Tuition commitments must have been met in full. Students enrolled less than full-time must pay for the additional credits taken through

the consortium at NKU's tuition rate.

4. Students must observe all regulations of the host institution.
5. Credit hours earned under this program are considered as residence credit.
6. Quarter hours are converted into semester hours on a two-thirds basis.
7. Graduate students must obtain permission in advance from their adviser before taking courses at other colleges or universities. Written permission is required before registering for a consortium course. The consortium does not apply to students enrolled in or to courses offered through the Graduate Center.
8. For further information phone the NKU Office of the Registrar, 859-572-5556, or refer to the most recent *Schedule of Classes*.

## TUITION RECIPROCITY

### Undergraduate

Northern Kentucky University, the University of Cincinnati, Cincinnati State Technical and Community College, and Southern State Community College have instituted an Undergraduate Reciprocity Agreement. This agreement extends *reciprocity* tuition rates to those residents of certain Ohio counties who meet the program/residency requirements. Since this agreement is subject to change on an annual basis, interested students should request current information from the Office of Admissions. As of the 2002-2003 academic year, students must meet the following eligibility criteria:

- be a resident of Adams, Brown, Butler, Clermont, Clinton, Fayette, Hamilton, Highland, or Warren counties;
- have earned an associate degree from a University of Cincinnati branch campus, Cincinnati State Technical and Community College, or from Southern State Community College;
- must be working toward a first bachelor's degree and not majoring in early childhood education, environmental science, criminal justice, or nursing.

Since this agreement is subject to change on an annual basis, interested students should request current information and application form from

Northern Kentucky University  
Office of Admissions  
Lucas Administrative Center  
Nunn Drive  
Highland Heights, KY 41099  
Telephone: 859-572-5220 or 1-800-637-9948

## ARTICULATION AGREEMENTS

Articulation, for the purposes of student transfer between campuses, refers specifically to "course articulation", e.g., the process of developing a formal, written agreement that identifies courses (or sequences of courses) on a "sending" campus that are comparable to, or acceptable in lieu of, specific course requirements at a "receiving" campus. Successful completion of an articulated course(s) assures the student and the faculty that the student has taken the appropriate course(s), received the necessary instruction and preparation, and that similar outcomes can be assured, enabling progression to the next level of instruction at the receiving institution. The articulation process is intended to ensure problem-free course and program transfer from one institution to another.

Students who wish to transfer should become familiar with the articulation agreements. Northern Kentucky University has established articulation agreements with universities and colleges in general education and in specific majors. For specific information, contact the Office of Admissions, 859-572-5220.



# ACADEMIC PROGRAMS

## DEGREES OFFERED BY NORTHERN KENTUCKY UNIVERSITY

Associate of Applied Science  
 Associate of Arts  
 Bachelor of Arts  
 Bachelor of Fine Arts  
 Bachelor of Music  
 Bachelor of Science  
 Bachelor of Science in Nursing  
 Bachelor of Social Work  
 Master of Accountancy  
 Master of Arts in Education  
 Master of Arts in Teaching  
 Master of Business Administration  
 Master of Public Administration  
 Master of Science in Computer Science  
 Master of Science in Information Systems  
 Master of Science in Nursing  
 Master of Science in Technology  
 Juris Doctor  
 Juris Doctor/Master of Business Administration

## ASSOCIATE DEGREES

Aviation Administration  
 Construction Technology  
 Human Services  
 Criminal Justice  
 Liberal Studies  
 Pre-Business Studies  
 \*Radiologic Technology  
 \*Respiratory Care

## MAJORS AND APPROPRIATE BACHELOR'S DEGREE(S)

\*Accounting—Bachelor of Science  
 Anthropology—Bachelor of Arts or Bachelor of Science  
 Applied Cultural Studies—Bachelor of Science  
 Art—Bachelor of Arts or Bachelor of Fine Arts  
 Athletic Training—Bachelor of Science  
 \*Biological Sciences—Bachelor of Arts or Bachelor of Science  
 \*Business Administration—Bachelor of Science  
 \*Business Education—Bachelor of Science  
 \*Business Education—(Non-Teaching Track)—Bachelor of Science  
 Chemistry—Bachelor of Arts, Bachelor of Science, or Bachelor of Arts (Biochemistry Track)  
 Computer and Electronics Engineering Technology—Bachelor of Science  
 Computer Information Technology—Bachelor of Science  
 Computer Science—Bachelor of Science  
 Construction Management—Bachelor of Science  
 Criminal Justice—Bachelor of Arts  
 Economics—Bachelor of Science  
 \*Elementary Education—Bachelor of Arts  
 English—Bachelor of Arts  
 \*Environmental Science—Bachelor of Science  
 \*Finance—Bachelor of Science  
 French—Bachelor of Arts  
 Geology—Bachelor of Arts or Bachelor of Science  
 Geography—Bachelor of Arts  
 Graphic Design—Bachelor of Arts  
 History—Bachelor of Arts  
 Industrial and Labor Relations—Bachelor of Science  
 Industrial Education—Bachelor of Science  
 \*Information Systems—Bachelor of Science

\*Interdisciplinary Early Childhood Education—Bachelor of Arts  
 International Studies—Bachelor of Arts  
 Journalism—Bachelor of Arts  
 Liberal Studies—Bachelor of Arts  
 \*Management—Bachelor of Science  
 \*Marketing—Bachelor of Science  
 Mathematics—Bachelor of Science  
 Mechanical Manufacturing Engineering Technology—Bachelor of Science  
 Mental Health/Human Services—Bachelor of Science  
 \*Middle Grades Education—Bachelor of Arts  
 \*Music—Bachelor of Arts or Bachelor of Music  
 \*Nursing—Bachelor of Science in Nursing  
 Organizational Leadership—Bachelor of Arts  
 Philosophy—Bachelor of Arts  
 \*Physical Education—Bachelor of Arts  
 \*Physical Education—(Non-teaching Track)—Bachelor of Arts  
 Physics—Bachelor of Arts or Bachelor of Science  
 Political Science—Bachelor of Arts or Bachelor of Science  
 Psychology—Bachelor of Arts or Bachelor of Science  
 Public Relations—Bachelor of Arts  
 Radio/Television—Bachelor of Arts  
 Social Studies (Teaching Certificate)—Bachelor of Arts  
 Social Work—Bachelor of Social Work  
 Sociology—Bachelor of Science  
 Spanish—Bachelor of Arts  
 \*Speech Communication—Bachelor of Arts  
 \*Sports Business—Bachelor of Science  
 Theatre Arts—Bachelor of Arts or Bachelor of Fine Arts

## MASTER DEGREES

NKU offers a variety of applied graduate programs designed to help students advance within their current careers or prepare to enter new careers. Listed below are the graduate programs available at the time this catalog was printed. New programs are being added on a regular basis. For information on current or upcoming programs, call the graduate office at 859-572-1555 or visit the graduate program web site at <http://grad-school.nku.edu>.

Master of Accountancy, Master of Applied Psychology in Industrial-Organizational Psychology, Master of Arts in Teaching, Master of Arts in Education, Master of Business Administration, Master of Science in Computer Science, Master of Public Administration, Master of Science in Information Systems, Master of Science in Nursing, and Master of Science in Technology

Post-Masters Nurse Practitioner's Certificate\*

## PROFESSIONAL DEGREE

### Degree of Juris Doctor

The program leading to the degree of Juris Doctor is described in the catalog of the *Salmon P. Chase College of Law of Northern Kentucky University*.

### Degree of Juris Doctor/Master of Business Administration

The program leading to the degree of Juris Doctor/Master of Business Administration is described in the catalog of the *Salmon P. Chase College of Law of Northern Kentucky University*.

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

Separate applications are required for nursing, radiologic technology, and respiratory care. Please contact the Office of Nursing and Health Professions for selective admissions application.

# ACADEMIC REQUIREMENTS

## GENERAL REQUIREMENTS

### 1. Bachelor's Degree

A student working toward a bachelor's degree at Northern Kentucky University must fulfill the following requirements:

- a. **Minimum of 128 semester hours**, the last 30 of which must be taken at Northern (i.e., in residence).
- b. **Minimum of 25% of the semester hours required for a degree must be taken at Northern** (i.e., in residence)
- c. **Developmental Coursework** (if required) must be satisfied. See "ADMISSION STATUS" on page 11.
- d. **General education requirements** (see "GENERAL EDUCATION REQUIREMENTS: BACHELOR'S DEGREE" on page 26). Please note that some transfer students may be credited with fulfillment of part of these requirements under provisions of the Kentucky General Education Transfer Policy (see "KENTUCKY GENERAL EDUCATION TRANSFER POLICY" on page 31).
- e. **Major requirements.**
- f. **Area of Concentration.** A student must complete (i) an area of concentration of at least 12 upper division semester hours in a discipline outside his/her major discipline or in an interdisciplinary program offered by NKU; or (ii) an academic minor, different from the student's major, offered by NKU; (iii) a second major offered by NKU; or (iv) a major exempted from the area of concentration requirement. Please see appropriate individual program requirements for exempted programs.
- g. **Grade point average (GPA) of at least 2.00** on all work attempted at Northern, at least 2.00 on all college work attempted (excluding developmental coursework), and at least 2.00 in the major—unless otherwise specified in the program requirements.
- h. **Forty-five semester hours of 300 level or above successfully completed coursework** are required of all bachelor's candidates. Even though freshman and sophomore level courses completed at other institutions may have course titles and/or content similar to certain upper division courses at Northern, the Office of the Registrar will make the determination of equivalencies for acceptance toward fulfillment of this requirement.
- i. Before completing the junior year, a student pursuing a bachelor's degree will **demonstrate competency in oral communication** through successful completion of Principles of Speech Communication (SPE 101).
- j. Demonstration of **competence in computer use** as determined by the student's major department.

### 2. Associate Degree

A student working toward an associate degree at Northern Kentucky University must fulfill the following requirements:

- a. **Minimum of 64 semester hours**, the last 20 of which must be taken at Northern.
- b. **Developmental Coursework** (if required) must be completed.
- c. **General education requirements** (see "GENERAL EDUCATION REQUIREMENTS: ASSOCIATE DEGREE" on page 31).
- d. **Major requirements.**
- e. **Grade point average (GPA) of at least 2.00 on all work attempted at NKU**, at least 2.00 on all college work attempted (excluding developmental course work), and at least 2.00 in the major—unless otherwise specified in program requirements.
- f. Before graduation, student will demonstrate **competency in oral communication** through satisfactory performance in a test administered by the speech faculty (test dates will be announced in the *Schedule of Classes* or by Contacting the Department of

Communications, LA 134, 859-572-5435) or by successful completion of Principles of Speech Communication (SPE 101).

## GENERAL EDUCATION PROGRAM RATIONALE

At the base of the general education program is a common core of foundation skills in critical thinking, mathematical reasoning, and written and oral communication, which are fundamental to success in further intellectual endeavor. The liberal arts core of the general education program aims to broaden intellectual horizons, deepen understanding of artistic, humanistic, and scientific methods, develop the mental flexibility and openness to change that allow adults to cope with complexity and meet unforeseen challenges in their careers and lives. The diversity core aims to broaden a student's knowledge and understanding of society's diverse social and cultural perspectives that are fundamental for living in a modern society. General education courses seek to further students' understanding of the contemporary world, of the ideals and aspirations which have motivated human thought and action throughout history, and of their society's place in a larger human context.

At the same time, the general education program encourages students to take personal responsibility for their lives by developing their own sense of values, pursuing their own goals, and developing the habit of lifelong learning, so that they may make valuable individual contributions to the political, social, and cultural enrichment of their society.

## GENERAL EDUCATION PROGRAM AREAS OF EMPHASIS

**Writing and Reading Skills:** Students will use writing and reading effectively as a means of learning, critical thinking, and communication.

**Oral Communication:** Students will demonstrate effective skills and techniques of public oral communication.

**Quantitative Skills and Scientific Understanding:** Students will apply quantitative skills and scientific understanding toward a range of issues and problems commonly encountered across the curriculum and throughout their lives.

**Critical Thinking and Problem-Solving Skills:** Students will develop a broad range of critical thinking and problem-solving skills in the scientific, mathematical, social, artistic, and personal domains.

**Collaboration with Others:** Students will work effectively and responsibly in collaboration with others.

**Computer and Information Literacy:** Students will employ computer skills that are relevant to their success in college and beyond. Students will gain access to critically evaluate, formulate, and use information effectively and ethically.

**Diversity:** Students will recognize and respect similarities and differences between their own and other peoples cultures, races, genders, abilities, religions, and ethnicities.

**Historical and Cultural Perspectives:** Students will comprehend the variety and interdependence of the world's cultural, economic, political, social, and ecological systems, and their change over time.

**Values Appreciation:** Students will comprehend the variety of situations of ethical import of both a personal and public nature in the contemporary world.

**Aesthetic Appreciation:** Students will demonstrate an understanding and appreciation of the creative process and artistic works.

## GENERAL EDUCATION REQUIREMENTS:

### BACHELOR'S DEGREE (Please refer to table on next page.)

#### NOTES ON GENERAL EDUCATION REQUIREMENTS

- a. Enrollment in certain general education courses is limited to students who have met prescribed academic qualifications (such as a level of performance on ACT or placement examinations) and/or who have completed specified prerequisite courses. Students should check their eligibility for particular general education

- courses by reviewing any “PREREQ” provisions in the descriptions of those courses. See Course Descriptions beginning on page 147.
- b. Because certain major programs require specific general education courses, students should review such requirements carefully in planning a general education curriculum.
- c. Some courses are listed under more than one general education category, but students may count such a course towards the fulfillment of only one general education category.

## GENERAL EDUCATION REQUIREMENTS: BACHELOR’S DEGREE

GENERAL EDUCATION FRAMEWORK AND SEMESTER HOURS NEEDED TO COMPLETE BACHELOR’S DEGREE PROGRAM REQUIREMENTS	
COMMON CORE (9-12 SEMESTER HOURS)	REQUIREMENTS
<p><b>WRITTEN AND ORAL COMMUNICATIONS</b>  <b>6 semester hours for most students</b>            Written Communication I (3 semester hours)            Oral Communication (3 semester hours)</p> <p><i>The first year writing course helps students make the transition to college by guiding them from writing that is based in personal experience and presented to familiar audiences, toward writing that is informed by other texts and targeted to wider public audiences. The course instructs students in reading for style as well as content, to identify and assess the effectiveness of a writer’s choices.</i></p> <p><i>The first year oral communication course provides students with the basic skills and knowledge in oral communication needed for success in college and thereafter as effective citizens and lifelong learners. The course is designed as an introductory course to enhance students’ critical reading, thinking, interpretation, and speaking skills. Emphasis on techniques, principles, and the practice of oral communication in a variety of formats, including public speaking.</i></p>	<p>Students must complete the following written and oral communication requirements <b>within the first 30 hours</b> of college-level work at NKU.</p> <p><i>Written</i> - Successfully complete one of the following options:            (1) ENG 101 College Writing            (2) ENG 151 Honors Freshman Composition (<i>Students successfully completing this course option will satisfy both the Written Communication I and Written Communication II requirement</i>)</p> <p><i>Oral</i> - Successfully complete SPE 101 Principles of Speech Communications</p> <p><b>Students not satisfying this requirement within the first 30 hours of college-level work at NKU will not be allowed to enroll in any 200-level general education courses.</b></p>
<p><b>MATHEMATICS</b>  <b>3 semester hours for most students</b></p> <p><i>In the mathematics course, students will engage in mathematical problem solving.</i></p>	<p>Students must complete the mathematics requirement <b>within the first 45 hours</b> of college-level work at NKU.</p> <p>Successfully complete one course from approved list of general education mathematics courses.</p> <p><b>Students not satisfying this requirement within the first 45 hours of college-level work at NKU will not be allowed to enroll in any 200-level general education courses except courses in the Written Communication II category.</b></p>
<p><b>WRITTEN COMMUNICATION II</b>  <b>3 semester hours for most students</b></p> <p><i>The advanced writing course teaches students to become more independent as writers. This course guides students toward research strategies that are more broad and sophisticated, and stylistic choices that are more varied and creative. Disciplines may require a specific general education course within this category to satisfy major requirements.</i></p>	<p>Students must complete the second level of the written communication requirement <b>before completing the first 60 hours</b> of college-level work at NKU.</p> <p>Student must successfully complete one course from the following:            ENG 291 Advanced Writing, EDU 291W Advanced Writing in the Education Profession, MUS 291W Advanced Writing in the Music Profession, PSC 291W Advanced Writing in Political Science, or PSY 291W Writing in Psychology. <i>ENG 151 Honors Freshman Composition also satisfies this requirement.</i></p> <p><b>Students not satisfying this requirement within the first 60 hours of college-level work at NKU will be required to meet with an academic adviser prior to enrolling in any additional general education courses.</b></p>
LIBERAL ARTS CORE (31 - 34 SEMESTER HOURS)	REQUIREMENTS
<p>The emphasis for the Liberal Arts Core is on experiences within the framework of many disciplines. Students will use the following foundational skills: critical thinking, problem solving, and research.</p>	<p>No more than two courses with the same prefix can be used to satisfy the Liberal Arts general education core requirement.</p> <p>Students must complete the Common Core General Education Requirements prior to enrolling in any upper-level general education courses.</p>
<p><b>BEHAVIORAL AND SOCIAL SCIENCES</b>  <b>9 semester hours for most students</b>            3 semester hours in behavioral sciences            3 semester hours in social sciences            3 semester hours in an additional behavioral sciences or social sciences course</p> <p><i>Behavioral and Social Science courses address understanding of human behavior, interactions, and environments within established social structures and forums.</i></p>	<p>Successfully complete three courses from approved general education course list for behavioral and social sciences. Students must satisfy the following requirements:            Successfully complete one course from approved list of general education behavioral sciences courses;            Successfully complete one course from approved list of general education social science courses; and            Successfully complete one additional course from approved list of general education social or behavioral sciences courses.</p>

**GENERAL EDUCATION FRAMEWORK AND SEMESTER HOURS NEEDED TO  
COMPLETE BACHELOR'S DEGREE PROGRAM REQUIREMENTS**

<p><b>FINE ARTS</b> <b>3 semester hours</b></p> <p><i>Fine Arts courses include oral, visual, written musical, spatial, or kinesthetic forms of expression and include components that emphasize student creativity, expression, and production. Students will be required to identify and analyze the impact of cultural and historical factors on the creation and reception of artistic works.</i></p>	<p>Successfully complete one course from approved general education course list for fine arts.</p>
<p><b>HISTORY</b> <b>3 semester hours</b></p> <p><i>History is concerned with understanding change and development over space and time. Students in history courses should obtain a fundamental grasp of the major eras, driving forces, formative movements, and ideas in the shaping of nations or regions in a global historical context.</i></p>	<p>Successfully complete one course from approved general education course list for history.</p>
<p><b>HUMANITIES</b> <b>6 to 8 semester hours for most students</b></p> <p><i>Humanities courses are concerned with seeing how we as human beings are connected, and hence the power of literature, arts, history, philosophy, religion, languages, and culture in transcending boundaries and overcoming divisions. Courses taken to fulfill this requirement will be selected from the following content areas: History, Literature, Fine Arts, Philosophy/Religious Studies or Foreign Languages.</i></p>	<p>Successfully complete two courses from approved general education course list for humanities with the following exception: only one course from History, Literature, or Fine Art may be selected to satisfy this requirement. Students taking more than two courses with the same prefix (ART, HIS, ENG) within the humanities category will receive credit for only two courses; the additional semester hours will count as electives.</p> <p>Students who choose Foreign Language courses to fulfill the Humanities category are required to take a two-course sequence.</p>
<p><b>LITERATURE</b> <b>3 semester hours</b></p> <p><i>Literature courses are concerned with understanding texts of all forms of written expression.</i></p>	<p>Successfully complete one course from approved general education course list for literature.</p>
<p><b>NATURAL SCIENCE</b> <b>7 - 8 semester hours for most students</b></p> <p><i>The two courses, together, will introduce the methods of inquiry associated with science, the basic principles used to explain natural phenomena and the connection between science and real-world problems.</i></p>	<p>Successfully complete two courses from approved general education course list for natural sciences; one must be a laboratory course.</p>
<p><b>DIVERSITY CORE (6 SEMESTER HOURS)</b></p>	<p><b>REQUIREMENTS</b></p>
<p><b>RACE AND GENDER PERSPECTIVE</b> <b>3 semester hours</b></p> <p><i>Explores race, gender, and cultural issues within the framework of a disciplinary perspective. Courses will advance a student's understanding of effective citizenship by addressing issues on a personal, local, national, or global level. Race and Gender courses make race and gender the central focus of the course. The courses concentrate on interrelationships between racial/ethnic groups, on the intersection of race/ethnicity and gender, and on the overlap of race/gender and cultural, political, economic, and social institutions. They incorporate historical understandings and contemporary issues such as the legacy of slavery and the evolution of gender roles, and their impact on current human experiences. The primary focus of the courses is how these issues manifest themselves in the United States.</i></p>	<p>Successfully complete one course from approved general education course list for the race and gender perspective.</p>
<p><b>NON-WESTERN PERSPECTIVE</b> <b>3 semester hours</b></p> <p><i>Explores economic, social/cultural, political, linguistic, ecological, race, gender, or religious issues within the framework of a disciplinary perspective. The major criterion is the type of culture, not the geographic location. Cultures that are significantly different from European and North American cultures fulfill the definition. Courses will advance a student's understanding of effective world citizenship by addressing issues on a personal, local, national, or global level.</i></p>	<p>Successfully complete one course from approved general education list for the non-Western perspective.</p>
<p align="center"><b>MINIMUM NUMBER OF SEMESTER HOURS REQUIRED TO COMPLETE GENERAL EDUCATION PROGRAM REQUIREMENTS FOR BACHELOR'S DEGREE TOTALS 46</b></p>	

**LIST OF APPROVED GENERAL EDUCATION COURSES  
BY CATEGORY****a. Behavioral Sciences**

## Anthropology

- ANT 100 Cultural Anthropology
- ANT 110 Introduction to Archaeology
- ANT 201 World Cultures
- ANT 230 North American Indians
- ANT 231 Modern American Indians
- ANT 240 Peoples of Africa
- ANT 245 Peoples of Latin America
- ANT 270 Native Australia's Oceania

## Psychology

- PSY 100 and PSY 100H Introduction to Psychology
- PSY 200 Psychology of Personal Adjustment
- PSY 201 Psychology of Race and Gender
- PSY 205 Psychology of Human Sexuality
- PSY 206 Human Sexuality Forum
- PSY 220 Lifespan Development

## Sociology

- SOC 100 Introductory Sociology
- SOC 205 Current Social Issues
- SOC 245 Latin American Societies

**b. Fine Arts**

## Art

- ART 100 Art Appreciation
- ART 101 Survey of Western Art I
- ART 102 Survey of Western Art II
- ART 103 Survey of Western Art III
- ART 104 Survey of Asian Art

## Music

- MUS 100 Music Appreciation
- MUS 107 Survey of African American Music
- MUS 108 History of Rock and Roll
- MUS 109 History of American Popular Music
- MUS 110 Appreciation of Jazz
- MUS 230 History of Music: Antiquity through Baroque
- MUS 231 History of Music: Classical to the Present

## Theatre

- TAR 100 Theatre Appreciation
- TAR 111 Creative Expression Through Acting
- TAR 165 Comparative Arts

**c. History**

## History

- HIS 100 History of Europe to 1713
- HIS 101 History of Europe, 1713 to the Present
- HIS 102 History of the United States through 1877
- HIS 103 History of the United States since 1877
- HIS 106 History of African Americans to 1877
- HIS 107 History of African Americans since 1877
- HIS 108 World History to 1500
- HIS 109 World History since 1500
- HIS 194 Honors Seminar

## Philosophy

- PHI 180 History of Classical and Medieval Philosophy
- PHI 185 History of Modern and Contemporary Philosophy

## Religious Studies

- REL 181 Survey of the Hebrew Bible
- REL 182 Survey of the New Testament
- REL 185 Survey of Christianity
- REL 186 Introduction to Judaism

**d. Humanities**

## Foreign Language

## Chinese

- CHI 101 Elementary Chinese I
- CHI 102 Elementary Chinese II
- CHI 201 Intermediate Chinese I
- CHI 202 Intermediate Chinese II

## French

- FRE 101 Elementary French I
- FRE 102 Elementary French II
- FRE 201 Intermediate French I
- FRE 202 Intermediate French II
- FRE 320 Survey of French Literature

## German

- GER 101 Elementary German I
- GER 102 Elementary German II
- GER 201 Intermediate German I
- GER 202 Intermediate German II
- GER 320 Survey of German Literature

## Italian

- ITA 101 Elementary Italian I
- ITA 102 Elementary Italian II
- ITA 201 Intermediate Italian I
- ITA 202 Intermediate Italian II

## Japanese

- JPN 101 Elementary Japanese I
- JPN 102 Elementary Japanese II
- JPN 201 Intermediate Japanese I
- JPN 202 Intermediate Japanese II

## Latin

- LAT 101 Elementary Latin I
- LAT 102 Elementary Latin II
- LAT 201 Intermediate Latin I
- LAT 202 Intermediate Latin II

## Russian

- RUS 101 Elementary Russian I
- RUS 102 Elementary Russian II

## Spanish

- SPI 101 Elementary Spanish I
- SPI 102 Elementary Spanish II
- SPI 201 Intermediate Spanish I
- SPI 202 Intermediate Spanish II
- SPI 320 Surveys of Peninsular Spanish Literature
- SPI 321 Survey of Spanish American Literature

## History

- HIS 100 History of Europe to 1713
- HIS 101 History of Europe, 1713 to the Present
- HIS 102 History of the United States through 1877
- HIS 103 History of the United States since 1877
- HIS 106 History of African Americans to 1877
- HIS 107 History of African Americans since 1877
- HIS 108 World History to 1500
- HIS 109 World History since 1500
- HIS 194 Honors Seminar

## Literature

- ENG 200 Introduction to Literature
- ENG 201 Ideas in Literature
- 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 208 Survey of American Literature I
- ENG 209 Survey of American Literature II

ENG 210 Survey of African-American Literature  
 ENG 211 Survey of Women's Literature I  
 ENG 212 Survey of Women's Literature II  
 ENG 265 Literature and the Human Experience  
 ENG 266 Folklore and Literature  
 ENG 300 American Women Poets  
 ENG 301 American Novel  
 ENG 302 Literature and Film  
 ENG 303 British Novel  
 ENG 305 American Women Writers  
 ENG 308 Shakespeare I  
 ENG 309 Shakespeare II  
 ENG 311 Tragedy  
 ENG 312 Comedy  
 ENG 314 Modern European Literature in Translation  
 ENG 315 The Bible as Literature  
 ENG 318 The Short Story  
 ENG 320 Satire

**Music**

MUS 100 Music Appreciation  
 MUS 107 Survey of African American Music  
 MUS 108 History of Rock and Roll  
 MUS 109 History of American Popular Music  
 MUS 110 Appreciation of Jazz  
 MUS 230 History of Music: Antiquity through Baroque  
 MUS 231 History of Music: Classical to the Present

**Philosophy**

PHI 150 Introduction to Philosophy  
 PHI 155 Introduction to Ethics  
 PHI 160 World Religions  
 PHI 165 Introduction to Logic  
 PHI 170 Philosophy and Sexuality  
 PHI 180 History of Classical and Medieval Philosophy  
 PHI 185 History of Modern and Contemporary Philosophy  
 PHI 201 Ideas in Philosophy  
 PHI 210 Ethics in Information Technology  
 PHI 220 Health Care Ethics  
 PHI 240 Philosophy and the Arts  
 PHI 250 Eastern Philosophy  
 PHI 330 Philosophy and Law  
 PHI 350 Philosophy of Religion

**Political Science**

PSC 110 History of Western Political Thought  
 PSC 111 History of American Political Thought

**Religious Studies**

REL 181 Survey of the Hebrew Bible  
 REL 182 Survey of the New Testament  
 REL 185 Survey of Christianity  
 REL 186 Introduction to Judaism  
 REL 201 Ideas in Religious Studies  
 REL 370 Religion and Science

**Theatre**

TAR 100 Theatre Appreciation  
 TAR 111 Creative Expression Through Acting  
 TAR 165 Comparative Arts

**e. Literature****Literature**

ENG 200 Introduction to Literature  
 ENG 201 Ideas in Literature  
 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 208 Survey of American Literature I  
 ENG 209 Survey of American Literature II

ENG 210 Survey of African-American Literature  
 ENG 211 Survey of Women's Literature I  
 ENG 212 Survey of Women's Literature II  
 ENG 265 Literature and the Human Experience  
 ENG 266 Folklore and Literature  
 ENG 300 American Women Poets  
 ENG 301 American Novel  
 ENG 302 Literature and Film  
 ENG 303 British Novel  
 ENG 305 American Women Writers  
 ENG 308 Shakespeare I  
 ENG 309 Shakespeare II  
 ENG 311 Tragedy  
 ENG 312 Comedy  
 ENG 314 Modern European Literature in Translation  
 ENG 315 The Bible as Literature  
 ENG 318 The Short Story  
 ENG 320 Satire

**French**

FRE 320 Survey of French Literature

**German**

GER 320 Survey of German Literature

**Spanish**

SPI 320 Surveys of Peninsular Spanish Literature  
 SPI 321 Survey of Spanish American Literature

**f. Mathematics**

MAT 110 Introductory Probability  
 MAT 111 Introductory Linear Mathematics  
 MAT 112 Calculus for Business Applications  
 MAT 113 Introduction to Probability and Statistics  
 MAT 115 Mathematics for Liberal Arts  
 MAT 118 Technical Mathematics  
 MAT 120 Calculus I  
 MAT 121 Calculus I A  
 MAT 122 Calculus I B  
 MAT 205 Introduction to Statistical Methods  
 MAT 212 Statistics for Business Applications

**g. Natural Sciences**

Laboratory courses may be paired with a lecture, the two to be taken concurrently (e.g., BIO 150 and 150L), or the laboratory is included in the course (e.g., BIO 120 or PHY 211).

**Astronomy**

AST 110 Solar System Astronomy with Laboratory  
 AST 115 Stars, Galaxies, and Cosmology with Laboratory

**Biology**

BIO 120 General Biology  
 BIO 121 Systems Biology  
 BIO 123 Human Ecology  
 BIO 125 Biological Perspective of Wellness  
 BIO 126 Human Nutrition  
 BIO 150, 150L, 150R Introduction to Biology I  
 BIO 151, 151L, 151R Introduction to Biology II  
 BIO 208, 208L Human Anatomy and Physiology I  
 BIO 209, 209L Human Anatomy and Physiology II

**Chemistry**

CHE 100, 100L Chemistry and Society  
 CHE 105 Discovering Chemistry w/Laboratory  
 CHE 115, 115L Physiological Chemistry  
 CHE 120, 120L General Chemistry I  
 CHE 121, 121L General Chemistry II

**Geology**

GLY 110 The Face of the Earth w/Laboratory

GLY 120 This Dangerous Earth  
 GLY 220 History of the Earth  
 GLY 230 Geology of National Parks  
 GLY 240 Geology of Natural Resources

#### Integrated Sciences

SCI 110 Integrative Natural Science I  
 SCI 111 Integrative Natural Science II

#### Physics

PHY 110 Introduction to Physics w/Lab  
 PHY 211 General Physics with Laboratory I  
 PHY 213 General Physics with Laboratory II  
 PHY 220 University Physics with Laboratory I  
 PHY 221 University Physics with Laboratory II

#### **h. Non-Western Perspective**

##### Afro-American Studies

AFR 100 Introduction to Afro-American Studies (will not additionally satisfy Race/Gender Perspective)

##### Anthropology

ANT 100 Cultural Anthropology  
 ANT 201 World Cultures  
 ANT 230 North American Indians  
 ANT 231 Modern American Indians  
 ANT 240 Peoples of Africa  
 ANT 245 Peoples of Latin America  
 ANT 270 Native Australia and Oceania

##### Art

ART 104 Survey of Asian Art

##### Geography

GEO 101 World Regional Geography  
 GEO 103 Geography of the Third World

##### Literature

ENG 216 Studies in Non-Western Literature

##### Philosophy

PHI 160 World Religions  
 PHI 250 Eastern Philosophy

##### Political Science

PSC 102 Comparative Politics  
 PSC 103 International Politics

##### Sociology

SOC 245 Latin American Studies

#### **i. Oral Communications**

Speech 101 Principles of Speech Communications

#### **j. Race/Gender Perspective**

##### Afro-American Studies

AFR 100 Introduction to Afro-American Studies (will not additionally satisfy Non-Western Perspective)

##### Education

EDU 316 Racism and Sexism in Educational Institutions

##### Geography

GEO 107 Diversity Mapped

##### History

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

##### Justice Studies

JUS 231 Race, Gender, and the Law

##### Literature

ENG 210 Survey of African-American Literature

##### Music

MUS 107 Survey of African-American Music

##### Political Science

PSC 215 Race, Gender, and Politics

##### Psychology

PSY 201 Psychology of Race and Gender

##### Radio /Television

RTV 105 Race, Gender, and the Mass Media

##### Religious Studies

REL 325 African-American Religious Experiences in America

##### Sociology

SOC 110 Introduction to Race and Gender  
 SOC 210 Analysis of Racism, Sexism in the U.S.

##### Theatre

TAR 102 Survey of Race and Gender in Dramatic Literature

##### Women's Studies

WMS 150 Introduction to Women's Studies  
 WMS 310 Women, Wages, and Work

#### **k. Social Sciences**

##### Afro-American Studies

AFR 100 Introduction to Afro-American Studies

##### Economics

ECO 200 Principles of Macroeconomics  
 ECO 201 Principles of Microeconomics  
 ECO 215 Contemporary Economic Issues

##### Geography

GEO 100 Elements of Geography  
 GEO 101 World Regional Geography  
 GEO 103 Geography of the Third World  
 GEO 107 Diversity Mapped

##### Justice Studies

JUS 101 Introduction to Criminal Justice

##### Political Science

PSC 100 American Politics  
 PSC 100H Honors American Politics  
 PSC 101 State and Local Politics  
 PSC 102 Comparative Politics  
 PSC 103 International Politics  
 PSC 110 History of Western Political Thought  
 PSC 111 History of American Political Thought  
 PSC 215 Race, Gender, and Politics

##### Radio/Television

RTV 205 Introduction to Popular Culture

##### Social Work

SWK 203 Social Welfare in Contemporary Society

#### **l. Written Communications**

ENG 101 College Writing

ENG 151 Honors Freshmen Composition

ENG 291 Advanced Writing

EDU 291W Advanced Writing in the Education Profession

MUS 291W Advanced Writing in the Music Profession

PSC 291W Advanced Writing in Political Science

PSY 291W Writing in Psychology

## GENERAL EDUCATION REQUIREMENTS: ASSOCIATE DEGREE

## GENERAL EDUCATION FRAMEWORK AND SEMESTER HOURS NEEDED TO COMPLETE ASSOCIATE'S DEGREE PROGRAM REQUIREMENTS

COMMON CORE (9 SEMESTER HOURS)	REQUIREMENTS
<p><b>WRITTEN AND ORAL COMMUNICATIONS</b>  <b>6 semester hours for most students</b>            Written Communication I (3 semester hours)            Oral Communication (3 semester hours)</p> <p><i>The first year writing course helps students make the transition to college by guiding them from writing that is based in personal experience and presented to familiar audiences, toward writing that is informed by other texts and targeted to wider public audiences. The course instructs students in reading for style as well as content, to identify and assess the effectiveness of a writer's choices.</i></p> <p><i>The first year oral communication course provides students the basic skills and knowledge in oral communication needed for success in college and thereafter as effective citizens and lifelong learners. Designed as an introductory course to enhance student's critical reading, thinking, interpretation, and speaking skills. Emphasis on techniques, principles, and the practice of oral communication in a variety of formats, including public speaking.</i></p>	<p>Students must complete the following written and oral communication requirements <b>within the first 30 hours</b> of college-level work at NKU.</p> <p><i>Written</i> - successfully complete the following:            (1) ENG 101 College Writing</p> <p><i>Oral</i> - Successfully complete SPE 101 Principles of Speech Communications</p>
<p><b>MATHEMATICS</b>  <b>3 semester hours for most students</b></p> <p><i>In the mathematics course, students will engage in mathematical problem solving.</i></p>	<p>Students must complete the mathematics requirement <b>within the first 45 hours</b> of college-level work at NKU.</p> <p>Successfully complete one course from approved general education course list for mathematics.</p>
LIBERAL ARTS CORE (9-10 SEMESTER HOURS)	REQUIREMENTS
<p>The emphasis for the Liberal Arts Core is on experiences within the framework of many disciplines. Students will use the following foundational skills: critical thinking, problem solving, and research. No more than two courses with the same prefix can be used to satisfy the Liberal Arts Core general education requirement.</p>	
<p><b>BEHAVIORAL AND SOCIAL SCIENCES</b>  <b>3 semester hours for most students</b></p> <p><i>Behavioral and Social Science courses address understanding of human behavior, interactions, and environments within established social structures and forums.</i></p>	<p>Successfully complete one course from approved general education course list for behavioral and social sciences.</p>
<p><b>HUMANITIES</b>  <b>3 semester hours for most students</b></p> <p><i>Humanities courses are concerned with seeing how we as human beings are connected, one to the other, and hence the power of literature, arts, history, philosophy, religion, languages, and culture in transcending boundaries and overcoming divisions. Courses taken to fulfill this requirement will be selected from the following content areas: History, Literature, Fine Arts, Philosophy/Religious Studies or Foreign Languages.</i></p>	<p>Successfully complete one course from approved general education course list for humanities.</p>
<p><b>NATURAL SCIENCE</b>  <b>3-4 semester hours for most students</b></p> <p>Will introduce the methods of inquiry associated with science, the basic principles used to explain natural phenomena and the connection between science and real-world problems.</p>	<p>Successfully complete one course from approved general education course list for natural sciences with or without laboratory component. See specific degree requirements for additional information on requirements.</p>
<p><b>MINIMUM NUMBER OF SEMESTER HOURS REQUIRED TO COMPLETE GENERAL EDUCATION PROGRAM REQUIREMENTS FOR ASSOCIATE'S DEGREE TOTALS 18</b></p>	

## KENTUCKY GENERAL EDUCATION TRANSFER POLICY

For students who reside in Kentucky, there is a statewide *General Education Transfer Policy*. The policy lets colleges and universities accept each other's general education requirements for transfer students. Course that meet General Education Transfer Policy requirements are identified by each institution.

The Kentucky Transfer Policy established two transfer components: the General Education Component and the Specialty Component. The 48 semester hour General Education Component provides a broad background of general education courses. The component is comprised of a 33

semester hour core component and a 15 semester hours block of unspecified general education courses.

**General Education Core Transfer Component (33 semester hours)**

The core component includes:

**1. Communication (9 semester hours)**

1. Written Communication — NKU Written Composition I see "WRITTEN AND ORAL COMMUNICATIONS" on page 26.  
 Oral Communication — NKU Oral Communication see "WRITTEN AND ORAL COMMUNICATIONS" on page 26.



## 2. Humanities (6 semester hours)

The disciplines represented in this category must be different from those in Behavioral/Social Sciences. Courses may be chosen from the following: Fine Arts, Literature, Foreign Language, History, or Philosophy/Religion courses in the List of Approved General Education Courses (see "HUMANITIES" on page 27).

## 3. Behavioral/Social Sciences (9 semester hours)

At least two disciplines must be represented and must be different from those in Humanities. Courses may be chosen from the List of Approved General Education Courses for Behavioral/Social Sciences (see "BEHAVIORAL AND SOCIAL SCIENCES" on page 26).

## 4. Natural Sciences (6 semester hours)

Courses may be chosen from the List of Approved General Education Courses for Natural Sciences (see "NATURAL SCIENCE" on page 27).

## 5. Mathematics (3 semester hours)

Courses may be chosen from the List of Approved General Education Courses for Mathematics (see "MATHEMATICS" on page 26).

### General Education Transfer Block (15 semester hours)

Kentucky transfer students may transfer an unspecified 15 semester hour block of general education courses to satisfy this component.

### General Education Transfer Certifications

#### Fully General Education Certified

A student transferring from a Kentucky institution will be accepted at NKU as "General Education Certified" when the/she has completed a general education program of 48 semester hours, including the 33-semester hour Core Transfer Component and the 15-semester hour Transfer Block; received an approved Associate of Arts or Associate of Science Transfer degree or earned 60 semester hours of undergraduate credit; and holds a cumulative grade point average of 2.0 or higher.

#### Core Component Certified

A student transferring from a Kentucky institution will be accepted at NKU as "Core Component Certified" when they complete the 33 semester hour Core Transfer Component. The student must also hold a cumulative grade point average of 2.0 or higher and will need to fulfill the remaining NKU general education requirements.

#### Category Certified

A student transferring from a Kentucky institution will be accepted at NKU as "Category Certified" when they he/she has completed one or more of the five categories in the Core Transfer Component. The student must hold a cumulative grade point average of 2.0 or higher and will need to fulfill the remaining general education requirements.

For more information regarding NKU transfer policies, see [http://www.nku.edu/~admitnku/transfer\\_services/home.htm](http://www.nku.edu/~admitnku/transfer_services/home.htm).

### Bachelor's Program Transfer Specialty Component Policy

The Bachelor's Program Transfer Specialty Component policy allows for the ease of transfer of course work within a student's major. Students who are "General Education Certified" under the Kentucky General Education Transfer policy (completed all categories, and have at least 48 semester hours in general education) are eligible for evaluation of credit within bachelor's program transfer frameworks. The Transfer Frameworks identifies at least 12 semester hours in addition to general education courses that may be taken at one Kentucky public institution and transferred to another public institution to satisfy major requirements. Students who are planning to transfer to another public Kentucky college or university should work closely with their adviser, as well as with the

institution to which they plan to transfer, in order to ensure the completion of all necessary requirements.

## GRADUATION REQUIREMENTS

### 1. Requirements for Graduation: a Checklist

- a. When a student anticipates successful completion of degree requirements, he/she **must file an Application for Degree Candidacy in the Office of the Registrar Service Center**. The approved Program Certification Form for each undergraduate applicant must be on file in the Office of the Registrar prior to filing the Application for Degree Candidacy. The dates by which the Application for Degree Candidacy must be in the Office of the Registrar Service Center are
 

for fall graduation	15 April
for spring graduation	15 October
for summer graduation	15 April

- b. The student pursuing a **bachelor's degree who has successfully completed 54 semester hours will file a Program Certification Form** for the major and the same form for either an area of concentration or a minor. A student in an **associate degree program must file a Program Certification Form after completion of 30 semester hours**. The certification form must be completed no later than during the semester preceding the one in which the student plans to graduate. The student will secure the form from the Office of the Registrar Service Center and will follow instructions given at that time. In some cases, students may be referred to their academic programs to obtain necessary forms.
- c. The student will **earn at least 128 semester hours for a bachelor's degree and at least 64 semester hours for an associate degree**. Also, all grades of *I* and *K* must be cleared before graduation requirements are complete.
- d. The student will **complete general education requirements appropriate for the degree** being sought (see "Catalog Applicability" elsewhere in this catalog).
- e. The student **must be recommended by the faculty**.
- f. The student will **satisfy all financial and administrative obligations** to the University.
- g. As part of Northern Kentucky University's on-going efforts to improve its program offerings, a student will be **required to participate in assessment activities** (see Senior Assessment section below). In addition to senior assessment, a student may be required to complete assessment requirements for a major/minor.

### 2. Graduation with Honors

- a. Bachelor's Degree
 

Cum Laude	3.50 - 3.7499
Magna Cum Laude	3.75 - 3.8999
Summa Cum Laude	3.90 - 4.00

In order for a student to graduate with bachelor's degree honors, he/she must earn a minimum of 64 semester hours in residence.

- b. Associate Degree
 

With Distinction	3.50 - 3.799
With High Distinction	3.80 - 4.00

In order for a student to graduate with associate degree honors, he/she must earn a minimum of 32 semester hours in residence.

- c. Honors appear in the Commencement Program based upon the grade point average (excluding developmental course work) at the conclusion of the previous semester. Honors will appear on the transcript based upon the grade point average (excluding developmental coursework) at the time of graduation.

### 3. Senior Assessment

- As a requirement for graduation with a bachelor's degree, all students who have completed at least 90 semester hours will be required to participate in senior assessment. It is anticipated that most students are expected to satisfy this requirement prior to completing 110 semester hours.
- After completing at least 90 semester hours, students are to meet the senior assessment requirement in the following semester. If a student does not participate in the assessment that semester, then the student is in "assessment default."
- A student in default will not be able to receive her or his diploma until the default is remedied. A student can remedy assessment default by participating in the appropriate assessment.
- No student will be expected or required to participate in more than one form of general education assessment. However, students may be required to participate in a separate assessment of their major field.

### 4. Second Bachelor's Degree

- A student wishing to receive two bachelor's degrees may meet requirements for them simultaneously or successively.
- Requirements for the second major will be those listed in the NKU catalog current at the time the second degree major is declared or certified.
- A student wishing to receive two degrees on the same date must
  - complete requirements for both degrees.
  - earn a minimum of 30 semester hours in residence beyond requirements for the first degree.
  - earn a minimum of 60 semester hours in residence at NKU.
- A student wishing to earn a second bachelor's degree after receiving the first must:
  - complete requirements for the second degree;
  - earn at least 12 semester hours additional to those he/she may already have in the major field offering the second degree;
  - earn a minimum of 30 semester hours in residence beyond requirements for the first degree;
  - earn a minimum of 64 semester hours in residence at NKU beyond the requirement for the first degree to be considered for graduation with honors.

### 5. Second Associate Degree

- A student who has not earned a bachelor's degree and wishes to receive two associate degrees may meet requirements for them simultaneously or successively.
- A student wishing to receive two associate degrees must
  - complete requirements for both degrees;
  - earn a minimum of 20 semester hours beyond those required for the first degree;
  - earn a minimum of 40 semester hours in residence at Northern.
- A student who has already earned a bachelor's degree and wishes to receive an associate degree must
  - complete requirements for the degree;
  - earn a minimum of 20 semester hours in residence at Northern;
  - earn at least 12 semester hours in the major;
  - earn a minimum of 32 semester hours in residence to be considered for graduation with honors.

### 6. Second Major

- A student who wishes to be certified in two or more major programs must meet requirements for each simultaneously.
- The degree conferred will be based upon the student's first major; all majors/minors and areas of concentration successfully completed will be indicated on the student's academic transcript.

### 7. Minor

- A student who wishes to have a minor certified must meet requirements at the time of degree awarding.
- Students earning associate degrees cannot earn a minor; only students at the bachelor's level may earn a minor.
- The minimum number of semester hours required for minors varies among departments and can be found in individual department descriptions.
- A GPA of at least 2.00 is required unless otherwise specified in the program requirements.

### “NON-TRADITIONAL” CREDIT

#### Credit by Examination

##### 1. Advanced Standing Examination

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

##### 2. College Level Examination Program (CLEP)

The CLEP, a national program of credit by examination administered by the College Entrance Examination Board, was established at Northern to provide individuals with an opportunity to earn credit by examination. CLEP tests may be taken at Northern or at any other national testing center during the third week of each month. Northern students may earn up to 45 semester hours through (a) General and/or (b) Subject examinations. The University is a recognized CLEP Testing Center, and testing applicable to other institutions is also conducted. A grade of pass (*P*) will be assigned for CLEP courses successfully completed.

###### a. General Examinations

Five tests are within the General Examination portion of CLEP: English composition, humanities, natural science, social science/history, and mathematics. Northern will award credit in three areas: humanities, natural science, and social science/history; up to 18 semester hours may be earned from the exams for each area. Six semester hours will be awarded for a minimum score of 50. Credit earned through these examinations is elective credit and does not satisfy general education requirements.

###### b. Subject Examinations

The following subject examinations equated below with specific courses offered at NKU are accepted by the University. (The University reserves the right to revise these listings in accord with recommendations from the Educational Testing Service.)

EXAMINATION	MINIMUM SCORE	SEMESTER HOURS	EQUIVALENT NKU COURSES
American History I	50	3	HIS 102
American History II	50	3	HIS 103
American Literature	50	6	ENG 208-209
Analyzing and Interpreting Literature	51	3	ENG 200
Calculus with Elementary Functions	50	5	MAT 120
College Algebra-Trigonometry	50	3	MAT 119

EXAMINATION	MINIMUM SCORE	SEMESTER HOURS	EQUIVALENT NKU COURSES
English Literature	50	6	ENG 202-203
General Biology (No lab credit awarded)	50	6	BIO 120-121
General Chemistry	50	6	CHE 120-121
Introductory Business Law	51	3	BUS 230
Introductory Psychology	50	3	PSY 100
Principles of Accounting	50 63	3 6	ACC 200 ACC 200-201
Principles of Management	50	3	MGT 205
Principles of Macroeconomics	50	3	ECO 200
Principles of Microeconomics	50	3	ECO 201
Principles of Marketing	50	3	MKT 305
Western Civilization I	50	3	HIS 100
Western Civilization II	50	3	HIS 101

CLEP credit is available in French, German, and Spanish. Students must meet with the foreign language coordinator to receive credit requirements.

Policies on CLEP vary depending upon the academic area; students are advised to consult their adviser prior to taking CLEP examinations. The Health, Counseling, and Testing Center administers CLEP and provides data about the program. With approval of the appropriate dean, a student at NKU may take the CLEP subject examination instead of repeating a course in which he/she received a *D* or *F*, an option that may be exercised up to four times.

### 3. 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 high school counselors. AP scores should be sent to the University's Office of the Registrar. Additional information on regulations and approved NKU programs for AP credit may be obtained from the Office of the Registrar. Examination scores range from 1-5. Subject areas in which a student may receive credit from Northern Kentucky University by earning acceptable scores are listed below.

Credit for those areas marked by an asterisk must be coordinated with the chair of the department concerned.

DISCIPLINE	ACCEPTABLE SCORE	COURSE	SEMESTER HOURS
Art, General	4 or more	ART 121 2D Vis. Studies	3
Art, Drawing	4 or more	ART 210 Drawing	3
History of Art	4, 5	ART 101 Survey I	3
		ART 102 Survey II	3
Biological Sciences	3	BIO 120 General Biology	4

DISCIPLINE	ACCEPTABLE SCORE	COURSE	SEMESTER HOURS
	4 or more	BIO 150, 150L Intro. to Biology I	5
Calculus AB*	3 or more	MAT 120	5
Calculus BC*	3 or more	MAT 120 Calculus I	5
		MAT 220 Calculus II	5
Chemistry	3	CHE 120, 120L General Chemistry	4
	4, 5	CHE 120, 120L General Chemistry I, CHE 121, 121L General Chemistry II	4 4
Computer Science A	3, 4, 5	CSC 260 Computer Programming I	3
Computer Science AB	4, 5	CSC 260, 262 Computer Program- ming I, II	6
English Language/ Composition	3 or more	ENG 101 College Writing	3
		ENG 291 Advanced College Writing	3
English* Literature/ Composition	3 or more	ENG 101 College Writing (It is recommended that students receiving credit for ENG 101 take ENG 151; ENG 291 may be substituted)	3
		ENG 200 Intro. to Literature	3
European History	3 or more	HIS 100 History of Europe to 1713	3
		HIS 101 History of Europe, 1713 to the Present	3
French	3 or more	FRE 101 Elementary French I	4
German	3 or more	GER 101 Elementary German I	4
Government and Politics - U.S.	3 or more	PSC 100 American Politics	3
		PSC 101 State and Local Politics	3
Government and Politics-Comp	3 or more	PSC 102 Comparative Politics	3
European History	3 or more	HIS 100 History of Europe to 1713	3
		HIS 101 History of Europe, 1713 to the Present	3
Latin: Virgil	3 or more	LAT 101 Elementary Latin I	3

DISCIPLINE	ACCEPTABLE SCORE	COURSE	SEMESTER HOURS
Macroeconomics	3 or more	ECO 200 Principles of Macroeconomics	3
Microeconomics	3 or more	ECO 201 Principles of Microeconomics	3
Music	3 or more	MUS 122 Theory I MUS 124 Aural Skills I	3  1
Physics B	3 or more	PHY 110 Intro. to Physics with lab	4
Physics C*	3	PHY 220 Univ. Physics w/Lab I <i>or</i> PHY 211 General Physics w/Lab I	5  5
	4, 5	PHY 211, 213 General Physics w/Lab I, II <i>or</i> PHY 220, 222 Univ. Physics w/Lab I, II	10
Psychology	3	PSY 100 Introduction to Psychology	3
Spanish	3 or more	SPI 101 Elementary Spanish I	4
Statistics	3 or more	MAT 212 Statistics for Business Application I	3
U.S. History	3 or more	HIS 102 History of U.S. through 1877	3
		HIS 103 History of U.S. since 1877	3

Transfer students who were awarded AP credit by their previous institutions are required to resubmit their scores for evaluation by NKU standards.

#### 4. International Baccalaureate (IB)

High school students completing this rigorous program may receive credit by earning the required score in a specific subject. An appropriate number of semester hours will be awarded, and a grade of pass (*P*) will be assigned for successful completion of approved courses. To earn credit, the student must request an official transcript issued by the New York office of the International Baccalaureate be sent to the University's 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 Northern Kentucky University by earning acceptable scores are listed below:

DISCIPLINE	ACCEPTABLE SCORE	COURSE	SEMESTER HOURS
Biology (Subsidiary level) (Higher level)	4	BIO 120	4
	5 or higher	BIO 150-150L	5
English (Higher level)	4 or higher	ENG 101, 291	6

French (Subsidiary level) (Higher level)	4 or higher	FRE 101	4
	4 or higher	FRE 101, 102	8
German (Subsidiary level) (Higher level)	4 or higher	GER 101	4
	4 or higher	GER 101, 102	8
History (Subsidiary level)  (Higher level)	4 or 5	HIS 100 (or HIS 101 if student has already received credit for HIS 100)	3
	6 or 7	HIS 100, 101	6
History - American (Subsidiary level)  (Higher level)	4 or 5	HIS 102 (or HIS 103 if student has already received credit for HIS 102)	3
	6 or 7	HIS 102, 103	6
Physics (Subsidiary level) (Higher level)	4	PHY 211	5
	5 or higher	PHY 211 and PHY 213, or PHY 220	5
Psychology (Subsidiary level) (Higher level)	4 or higher	PSY 100	3
	4 or higher	PSY 100	3
Mathematics (Higher level)	4 or higher	MAT 120, 220	10
Spanish (Subsidiary level) (Higher level)	4 or higher	SPI 101	4
	4 or higher	SPI 101, 102	8

#### OTHER NON-TRADITIONAL CREDIT

Additional types of nontraditional credit are available:

##### a. Portfolio Development (PD)

The portfolio is a formal written document that defines learning and requests credit for specific course or courses in the catalog. Students may request up to 32 semester hours toward a bachelor's degree and 16 semester hours towards an associate degree. Simply described, a portfolio takes the place of a standardized test in evaluating college-level learning students may have acquired through their personal, volunteer, or work experience. Credit is granted upon recommendation of the appropriate faculty and with the approval of the appropriate dean. A 2-semester hour mandatory course teaches the students how to prepare the portfolio. Call the Office of Credit Continuing Education at 859-572-5601 to make a reservation for one of the monthly portfolio information sessions, send questions by e-mail to [priorlearning@nku.edu](mailto:priorlearning@nku.edu), or visit their website at [http://www.nku.edu/~cont\\_ed/](http://www.nku.edu/~cont_ed/).

##### b. Military and Department of Defense (DOD)

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 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. Students should petition the Office of the Registrar for review of courses and present appropriate documentation of military course work.

##### c. Vocational (Articulation)

Credit may be awarded to an applicant entering Northern Kentucky University in the program area of specialty upon completion of a post-secondary vocational program in the Northern Kentucky Vocational Region. For more information, contact the Department of Technology.

##### d. National Occupational Competency Testing Institute (NOCTI)

Credit may be earned through standardized tests to assess competency in technical or trade areas of industrial education teachers. Contact the Department of Technology, 859-572-5761.

**e. American Council on Education (ACE) Non-Collegiate Sponsored Instruction**

Credit may be awarded based on educational programs offered by many large corporations or non academic 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 Office of the Registrar, AC 301, Nunn Drive, Northern Kentucky University, Highland Heights, KY 41099 or phone 859-572-5556 for more information.

**f. Correspondence Courses**

1. No more than 9 semester hours required for a degree may be earned by correspondence.
2. A student desiring to enroll in correspondence courses at another institution while he/she is a student at NKU must obtain prior permission from the appropriate academic dean if he/she wishes to transfer the earned credit to NKU. Correspondence courses in which a grade of *C* or higher is earned will be transcribed as hours earned or pass (*P*) credit only up to 9 semester hours.

**ACADEMIC STANDING FOR UNDERGRADUATES****a. Good Standing**

A student is in good standing when he/she has more than 16 quality hours with a cumulative grade point average (GPA) that meets or exceeds 2.00. A student with 0-15 quality hours is in good standing with a cumulative grade point average (GPA) that meets or exceeds 1.66.

**b. Academic Probation/Suspension**

A student who fails to meet the cumulative 2.00 GPA required for good standing is placed on academic probation for the next enrolled semester.

**A student on academic probation will be suspended unless:**

1. The student earns a 2.00 GPA or higher for the probationary semester (semester GPA). *or*
2. The student meets or exceeds the following cumulative GPA standards at the end of the probationary semester:

Cumulative GPA of:

- 0.00 for 0-15 quality hours
- 1.25 for 16-30 quality hours
- 1.50 for 31-45 quality hours
- 1.75 for 45-59 quality hours
- 2.00 for 60+ quality hours

Quality hours are semester hours attempted in courses numbered 100 or above at NKU. A student whose grade-point average is below the cumulative 2.00 GPA required for good standing, but above the cumulative GPA standards for suspension, will be continued on academic probation for the next semester enrolled.

A student on academic probation who has been previously suspended and who is suspended a second time will receive the penalty of a second suspension.

No student will be suspended prior to accumulating 15 quality hours or without being placed on probation for the preceding semester.

**Probation**

A student on academic probation is not allowed

1. to serve as an officer or committee member in any campus organization;
2. to participate in any University extracurricular activity or in the activity of any University organization if the participation involves expenditure of an appreciable amount of time;
3. to carry more than 13 semester hours during any fall or spring semester;

4. to carry more than 6 semester hours at one time during summer sessions or more than one course in intersession.

**Suspension**

1. A student suspended from Northern or another institution for the first time for academic reasons is required to remain out of school for at least two full semesters (the summer sessions taken together being considered as one semester).
2. After serving the period of suspension, a student may be reinstated or admitted to the University. To be reinstated or admitted, the student must meet with the appropriate associate dean to discuss academic standing and future direction. This meeting must occur by August 1 for fall semester, December 1 for spring semester, and May 1 for summer sessions. If the suspended student has remained out of school for more than four years, the student must complete and submit an application for readmission to the University once reinstatement has been approved.

**Second Suspension**

A student suspended a second time will not be reinstated to NKU except in unusual circumstances and then only on recommendation by the appropriate dean and approval by an ad hoc group, consisting of the appropriate associate/assistant dean from each of the undergraduate colleges plus the Director of the Academic Advising Resource Center. To petition for reinstatement after a second suspension, the student must meet with his/her appropriate associate/assistant dean or the Director of the Academic Advising Resource Center by the dates specified above and then must submit an appeal letter to the above described group. If reinstatement is approved, the student must then complete and submit an application for readmission to the University.

Similarly, students transferring to NKU, ineligible to return to their previous institution(s) because of academic deficiencies or if they have a cumulative G.P.A. of less than 2.0, will follow the same process described in the previous paragraph, identifying the appropriate associate/assistant dean or the Director of the Academic Advising Resource Center, based on their intended major.

**ACADEMIC BANKRUPTCY FOR UNDERGRADUATES****Prerequisite Conditions**

A student who has not been in attendance for a minimum of two consecutive academic years (24 months) may petition for academic bankruptcy of NKU coursework on a one-time basis only. Any bankrupted courses that the student passed at an acceptable level (*C* or higher) and that are among requirements for a major/minor or for general education may be applied, but without awarding of credit, toward those requirements. Such application is subject to written approval by the appropriate chair for major/minor requirements or by the dean of Arts and Sciences for general education requirements. Bankrupted courses, even though passed, do not apply to the minimum of 128 semester hours required for the bachelor's degree or to the minimum 64 semester hours required for the associate degree.

**Procedure**

The student should obtain and complete an Undergraduate Academic Bankruptcy Petition form from the Office of the Registrar, processing area; at this time, policy requirements will be reviewed and explained by a processing specialist.

**Bankruptcy**

Upon returning to NKU and successfully completing the first 12 semester hours of college level coursework attempted with grades of *C* or better, the Office of the Registrar will remove from the calculation of the grade point average all classes in all semester(s) (all summer sessions in one year will be counted as one semester), terms and sessions previously identified. A student's Northern Kentucky University transcript will indicate the term(s) bankrupted. The courses in the terms affected will be

removed from the calculation of the grade point average but will remain a part of the student's transcript at NKU.

Failure to earn at least a *C* in each college-level course of the first 12 semester hours upon returning to school will result in denial of the petition. Academic bankruptcy may be petitioned only once. An updated copy of the transcript will be furnished to the appropriate dean, advisor and the student. It is the student's responsibility to contact any agency providing financial assistance to determine the effects of the academic bankruptcy on past or future benefits.

## RELATED POLICIES

### Course Load

1. The following course loads apply for each semester/session:
  - a. The suggested undergraduate course load for fall and spring semesters is 16 semester hours. Except in special circumstances the maximum course load in fall or spring semester at NKU is 18 semester hours (including audit, residence, correspondence, off-campus, and consortium courses) or the amount specified in the curriculum for the particular semester, whichever is larger. Maximum course load for summer sessions is 15 semester hours.
  - b. A student may take only one intersession course each year.
  - c. A student may take up to 6 semester hours during each of the five-week summer sessions for a total of 12 semester hours.
  - d. A student may take up to 6 semester hours during the six-week summer session.
  - e. A student enrolled during the eight-week summer session or the six-week summer session may take up to 9 semester hours when enrollment is in combination with a five-week summer session.

NOTE: It is normal that students should expect to spend 5-6 hours per week in course-related work outside of class time in a 3 semester hour course. This means that students carrying 15 semester hours may need to spend a minimum of 25-30 hours per week in outside class work. This must be considered in making out student schedules.

2. A student who has attained a grade-point average of 3.00 or higher for a total of at least 15 semester hours for the preceding semester may be permitted by his/her dean to carry up to 21 semester hours.
3. A student with particular problems concerning course load should see the appropriate dean.
4. The minimum course load for a full-time undergraduate student at Northern is 12 semester hours in a fall or spring semester and 9 semester hours in summer.
5. A student on academic probation may not take more than 13 semester hours in a fall or spring semester or more than 6 semester hours in summer.

### Grading System

The grading system at Northern is based on the following descriptions:

- A* represents exceptionally high achievement as a result of aptitude, effort, and intellectual initiative.
- B* represents high achievement as a result of ability and effort.
- C* represents average achievement, the minimum expected of a college student.
- D* represents the minimum passing grade except for courses taken on a pass/fail basis. The grade of *D* may not be awarded in graduate courses.
- F* indicates failure in a course. Credit in a course where an *F* was earned can be obtained only by repeating the course successfully.
- I* means that part of the work in a course remains incomplete. It is given only at the student's request and where there is 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 by the instructor. In unusual circumstances the appropriate dean may grant an exten-

sion 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 and/or remedial. Students receiving *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.
- 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 grade point average.

### Auditing a Course

1. A student may enroll for an audit (*T*) grade when academic credit is not desired. The same registration procedures are followed and the same tuition/fees are charged as for credit courses. Audited courses do not apply to any degree or certificate programs.
2. Class attendance will be consistent with University policy. Other course requirements will vary depending upon the nature of the course and the individual instructor or program.
3. Any change from audit to credit or credit to audit must be done by the last day to register for a class. An Audit form must be completed and filed in the Office of the Registrar, AC 301 by the last day to register or enter a class. Refunds for withdrawals from audited courses are calculated according to NKU policy.

### Grade Change

1. If due to an error a grade change is required, it must be accomplished by midterm of the next full semester after the issuance of the incorrect grade.
2. For *I* 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 chairperson, and the appropriate dean must approve.
3. If the time limitation stated above 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.
4. Changes become official when received and recorded by the Office of the Registrar.

### Pass/Fail—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. To exercise the option to enroll in a course on a pass/fail basis, the student must complete a form obtainable at the Office of the Registrar. This can be done at the time of registration but not later than the last day to register or enter a class for that semester/term as listed in the appropriate *Schedule of Classes*.

3. Taking courses pass/fail under the student-initiated option is subject to the following restrictions:

The individual must be a bachelor's student who has attained junior standing (having earned 60 semester hours or more).

Courses taken pass/fail must be elective in nature and cannot be applicable to specific general education, major, or minor/area of concentration requirements.

Pass/fail courses may be applied toward upper-division course requirements.

No more than 12 semester hours toward graduation may be completed through the student initiated pass/fail.

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.

The grade of *P* will not be computed in the grade-point average but will be credited as semester hours earned and will count toward graduation under the restrictions previously mentioned; the grade of *F* will be computed in the student's grade-point average as hours attempted.

Students must declare their intention to take a course under the pass/fail option no later than the last day to register or enter a course for a specific semester or term as stated in *Schedule of Classes*.

The choice to receive a traditional letter grade or a pass/fail grade cannot be changed after the last day to register or enter a course except by withdrawal or by repeating the course.

4. Under the student initiated pass/fail policy, the instructor will not know who is taking the course for a traditional letter grade or pass/fail. At semester end, 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 Office of the Registrar.
5. Should a student change major or minor/area of concentration after having taken a course under the student-initiated pass/fail option, any discussion regarding acceptance of the course for major or minor/area of concentration requirements would be made on an individual basis by the appropriate department chair. If needed, and with the student's permission, the instructor's record of the original letter grade could be consulted in such a case.

### Grade Point Average (GPA)

1. The grade point average (GPA) is the ratio of the number of quality points earned to the number of semester hours attempted in courses numbered 100 and above.
2. An *A* counts 4 quality points for each semester hour earned; a *B*, 3 points; a *C*, 2 points; a *D*, 1 point; and an *F*, zero. Thus a student would earn 12 quality points for an *A* in a 3 semester hour course and 4 quality points for a *C* in a 2 semester hour course.
3. To compute the GPA, add all quality points and divide this sum by the number of semester hours attempted. The GPA for the courses above would be 16/5 or 3.2.
4. Grades of *I*, *K*, *N*, *P*, *T*, and *W* do not affect the GPA; a grade of *F* does affect it.

### President's Honors List

1. All undergraduates attempting at least 12 semester hours earning quality points (excluding developmental coursework) who achieve a grade point average of 4.00 at the completion of a semester's work will be appointed to the President's Honors List.
2. All undergraduates attempting at least 8 semester hours earning quality points (excluding developmental coursework) achieving a GPA of 3.60 or greater at completion of a semester's work will be appointed to the Dean's List.
3. All undergraduates attempting at least 3 semester hours earning quality points (excluding developmental course work) achiev-

ing a GPA of 3.60 or greater at completion of a semester's work will be appointed to the Scholar's List.

### Repeating/Retaking a Course

1. A student wishing to repeat a course must file an Option to Repeat form with the Office of the Registrar, AC 301.
2. Only students receiving a grade of *D* or *F* are permitted to repeat a course once for each of four courses. It is permissible to repeat a required course a second time, i.e., a major/minor or general education requirement, exercising one of the student's four options. In any event, the last grade prevails and the original grade is removed from the GPA computation.
3. The student must petition his/her dean, in writing, for any exceptions to the repeat policy. If more than four *D* or *F* grades are received, the student should always petition for an exception to the repeat policy before retaking courses.
4. If the four repeat options have been exercised, and a student is required to retake a course in which a *D* or *F* was received to proceed with her/his academic program, both entries will remain on the permanent record. Both grades will be calculated into the GPA and for fulfilling major requirements, if applicable. 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 student can petition his/her dean for more repeats
5. Courses in which a *C* or higher was earned will not be retaken nor will credit be earned unless it is a course such as independent study where the course content is different or is specifically referred to as repeatable in the course description. If it is determined in the degree audit process that a student has the same non-repeatable course both with *C* or better grades on his/her record, the grade for the first time the course was passed will be the course counted toward all institutional and program requirements (e.g., hours earned, GPA, honors, program, etc.). Upon written recommendation by the department chair, an exception to the repeat policy may be obtained for students who earned *C* or better grades. This exception applies to course work which places time restrictions on course applicability in a specific program. An example may be a nursing course taken more than five years ago. Such written requests must be submitted to the Office of the Registrar.
6. The repeat option may not 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 may not be reevaluated to eliminate these grades in the computation of the GPA even if the student declares a new catalog.
7. The repeat policy is applicable to Northern Kentucky University coursework only. It may not be invoked by petitioning the use of acceptable transfer work even if the transfer course is equivalent to a Northern Kentucky University course.
8. Discontinued courses may not 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 may be allowed. Under no circumstances may one course of different content substitute for another under the repeat policy.

### Enrollment in Developmental Studies Courses

Students will be permitted to enroll in developmental studies courses (090-level courses in English, mathematics, and reading) up to a maximum of three times per course. For this policy, enrollment is defined as having been officially registered for the course at any time during the semester.

## Declaration/Change of Major

The University finds it advantageous to permit students to declare a major at the time they register as freshmen. Under no circumstances, however, must this initial declaration be considered as binding. It is quite possible for freshmen students uncertain about their major to declare an “undecided” major. Students seeking the bachelor’s degree will be required to declare a major before completion of 50 semester hours earned. Transfer students entering with more than 50 earned semester hours will be required to declare a major by the end of their first semester of enrollment.

Students seeking the associate degree will be required to declare a major before completion of 25 semester hours earned. Transfer students entering with more than 25 earned semester hours will be required to declare a major by the end of their first semester of enrollment.

It is very important that the student keep the Office of the Registrar notified of decisions concerning his/her major. It is the student’s responsibility to file a Declaration/Change of Major form with the academic department and the Registrar.

## Student Classification

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

## POLICY ON TRANSFER OF UNDERGRADUATE CREDIT

### Transfer of Undergraduate Credit

- Only coursework from a regionally accredited institution for which the student earned a minimum GPA of 2.00 on a 4.00 scale will be considered for transfer credit acceptance.
- Courses will transfer as “credit” only. The cumulative grade point average at NKU will be based only on those courses attempted at NKU. Transferred semester hours are applied toward the total hours required for graduation from NKU.
- 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 category will be considered to have completed that category if all content requirements are fulfilled.
- In addition, a transfer student must:
  - Satisfy the requirements of his/her major program. A student may not transfer all the courses necessary for a major. It is recommended that at least half the work in a major be taken at NKU, but majors may set specific limits on the amount of transfer credit granted. The appropriate chairperson will make final determination requirements of a student’s major.
  - Meet the grade-point requirements of NKU for the present semester in college (e.g., a student who has enrolled in her/his first semester at NKU must achieve a minimum cumulative GPA of 2.00 to avoid probation). (See “Probation” and “Suspension” on page 36.) A student placed on probation /suspension at another institution must confer with NKU’s Director of Admissions prior to a decision concerning acceptance.
- Effective fall semester 1991 and for subsequent semesters, NKU will no longer accept course credits for transfer from institutions that are not regionally accredited unless a formal articulation agreement has been approved.
- Students from unaccredited institutions have the option to earn prior learning credit through NKU’s non-traditional credit opportunities of portfolio development, advance standing examination, and College Level Examination Program (CLEP) testing.

## Transfer of Credit from Professional or Graduate Schools to NKU’s Bachelor’s Programs

- 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. Such schools are usually medical schools, dental schools, law schools, schools of social work, and schools of veterinary medicine. To be excluded from this group are schools that grant a bachelor’s degree to students who transfer credits to them. Also excluded are professional schools not accredited by a regional accrediting association for institutions of higher education.
- To meet minimum conditions, the student must complete at least 90 semester hours of work at NKU, meet general education requirements of the University before he/she leaves, and satisfy requirements of her/his major.
- Courses taken at the graduate or professional school may be used to meet major requirements at the discretion of the student’s adviser and department chair with the approval of the Office of the Registrar and appropriate dean.
- Transfer of credit must be effected at the end of a student’s initial year of post-bachelor’s study.
- A student who receives early admission to a graduate or professional school and who meets the above conditions is urged to discuss with his/her chair the possibility of transferring credit from the school to NKU. A student permitted to transfer such credit must have an appropriate transcripts sent to Northern and must also complete application for the bachelor’s degree from Northern.
- Students are warned that in a few cases their early admission to graduate or professional school may permanently disbar them from licensure in certain states. It is the responsibility of the student to ascertain requirements of the state in which he/she plans to practice.

## Academic Advising

In recognition of the value of regular consultation with a knowledgeable University official, NKU makes academic advising available to all students through the various academic departments, the Academic Advising Resource Center (see “Advising Services” on page 143).

These services, highly recommended, are required by specific academic departments. Although the University reserves the right to evaluate the student’s course of study, to prescribe requirements as to programs, and to enforce prerequisites, corequisites, and similar course restrictions, responsibility for completing program requirements and selecting courses rests with the student.

## Experimental Courses

Experimental courses in a variety of subjects are offered each semester. All carry regular academic credit as electives. Many are crosslisted by cooperating departments and programs for elective credit toward the major in the respective disciplines.

## COOPERATIVE EDUCATION

Cooperative Education at Northern Kentucky University is an academic option that incorporates related work experience into the student’s program of study. This learning experience involves gainful employment, and academic credit is earned and applied toward associate and bachelor’s degrees. The employment experience is planned, supervised, and coordinated by employers, faculty coordinators, and the Career Development staff.



### Requirements

To be admitted to the Cooperative Education program, students must have an overall GPA of at least 2.20 (based on a 4.00 scale). This grade-point average must be retained throughout the student's academic experience involving cooperative education.

To qualify as candidates for the program, associate degree students must have completed 15 semester hours; bachelor's degree students, 30 semester hours. Students are required to participate in the co-op program for two semesters. Students must apply and be approved prior to registering for co-op credit. Interested students should contact Career Development, 859-572-5680.

### Patterns of Cooperative Employment

Two patterns of employment are available:

*Alternating*—Students will be employed full-time (minimum of 40 hours per week or equivalent) one semester and will be in school full-time the following semester. Students will normally engage in two cooperative education terms. While on an alternating work assignment, students will maintain full-time status for purposes of student benefits and activities.

*Parallel*—Students will be employed half-time (minimum of 20 hours per week or equivalent) and will be enrolled in school for a minimum of 6 semester hours of coursework in addition to Cooperative Education each semester. Bachelor's degree students will usually engage in

four Cooperative Education terms in the parallel mode; associate degree students, two terms.

### Academic Credit

Credit earned in Cooperative Education counts toward NKU graduation requirements for the associate or the bachelor's degree. Credit is not considered as "add-on" credit. Bachelor's degree students may apply a total of 12 semester hours toward the requirements; associate degree students, 6 semester hours. Cooperative Education is graded pass/fail.

*Cooperative Education credit does not replace any general education requirements.* The application of Cooperative Education credit toward the degree will be determined by the student and the academic advisor.

Academic loads may vary depending on special arrangements agreed to by a student's academic unit and the Career Development Center.

Cooperative Education courses have the prefix CEP.

### Tuition

Cooperative Education students pay the usual tuition fees (no special fees).



# THE COLLEGE OF ARTS AND SCIENCES

## DEPARTMENTS

Art; Biological Sciences; Center for Integrative Natural Science and Mathematics; Chemistry; History and Geography; Institute for Freedom Studies; Literature and Language; Mathematics and Computer Science; Music; Physics and Geology; Political Science and Criminal Justice; Psychology; Sociology, Anthropology, and Philosophy; Theatre and Dance; Liberal Studies; Interdisciplinary Studies

## CONTACTING THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences located in Steely Library 401 may be reached during business hours by phone at 859-572-5494, or by facsimile at 859-572-6185. Interested persons are invited to browse the college's website at <http://www.nku.edu/~artsience>.

[Pending Appointment], *dean*

Mr. Barry Andersen, *associate dean* andersen@nku.edu

Ms. Janis Cassiere, *assistant dean* cassiere@nku.edu

Ms. Beth Sweeney, *assistant dean for administration* sweeneyb@nku.edu

Ms. Brenda Faulkner, *secretary/receptionist* faulkneb@nku.edu

## PROGRAMS OFFERED BY THE COLLEGE OF ARTS AND SCIENCES

### ASSOCIATE DEGREES

Associate of Arts – Liberal Studies  
Associate of Applied Science  
Criminal Justice

### BACHELOR DEGREES

#### Bachelor of Arts

Anthropology	French	Music
Art	Geography	Philosophy
Biological Sciences	Geology	Political Science
Chemistry	History	Psychology
Criminal Justice	International Studies	Physics
English	Liberal Studies	Spanish
		Theatre

#### Bachelor of Science

Anthropology	Computer Information	Mathematics
Applied Cultural Studies	Technology	Physics
Biological Science	Environmental	Political Science
Chemistry	Science	Psychology
Computer Science	Geology	Sociology

#### Bachelor of Fine Arts

Art	Theatre
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#### Bachelor of Music

### SECONDARY EDUCATION CERTIFICATION MAJORS

Art	English	Music
Biological Science	French	Physics
Chemistry	German	Social Studies
Earth and Space Science	Mathematics	Spanish

### MINORS

Afro-American Studies	Health Care Studies	Political Science
Anthropology	History	Psychology
Applied Philosophy	International Studies	Public Administration
Applied Cultural Studies	Japanese Studies	

Art	Latin American & Caribbean Studies	Religious Studies
Biological Sciences	Legal Studies	Sociology
Chemistry	Mathematics	Spanish
Computer Science	Medieval Studies	Theatre
Criminal Justice	Military History	Women's Studies
Dance	Music	Women's Studies
English	Native American Studies	Workplace Writing
Environmental Studies	Physics	
French		
Geography		
Geology		

### CERTIFICATE

Piano Pedagogy

### GRADUATE PROGRAMS

(see graduate catalog for additional information)

**Master of Applied Psychology in I/O Psychology**

**Master of Computer Science**

**Master of Public Administration**

### MISSION AND GOALS FOR THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences comprises twelve academic departments offering instruction in fine arts, humanities, and behavioral, social, mathematical, and natural sciences. Several interdisciplinary programs, the Master of Computer Science, and the Master of Public Administration are also housed in this college. The faculty and staff are committed to a three-fold role in the University:

1. to provide all students with a liberal arts education through the University's general education program;
2. to serve the academic needs of students majoring and minoring in Arts and Sciences programs;
3. to render curricular support for students majoring in programs of the College of Business, College of Education, and the College of Professional Studies.

### ACCREDITATION/AFFILIATIONS

American Chemical Society  
National Association of Schools of Music

### COLLEGE-WIDE REQUIREMENTS

Each new student with a major in the College of Arts and Sciences must meet with an adviser. All students are encouraged to meet regularly with an adviser.

### COLLEGE-WIDE GRADUATION REQUIREMENTS

1. satisfactorily complete (GPA of at least 2.00) a minimum of 128 semester hours;
2. satisfy the requirements of the University's 45 upper-division semester hours;
3. satisfy the requirements of the student's academic major;
4. satisfy the requirements of the student's academic minor or area of concentration with exceptions outlined in specific major;
5. satisfy the University's general education requirements.

# Art Department

## FACULTY

Thomas McGovern, *chair*  
 Kimberly Allen-Kattus; Barry Andersen; Nicholas Bonner; Kevin Booher; Tobias Brauer; Ana England; Steven Finke; Barbara Houghton; Lisa Jameson; Andrea Knarr; David Knight, *gallery director*; Julie Mader-Meersman; Kevin Muentze

## CONTACTING THE DEPARTMENT

The Department of Art is located in FA 312 and may be reached during business hours by phone at 859-572-5421. Visit the department's website at <http://www.nku.edu/~art>.

Professor Thomas McGovern, *chair*                      [mcgovern@nku.edu](mailto:mcgovern@nku.edu)

## PROGRAMS OFFERED

### Bachelor of Art

Graphic Design  
 Studio Arts  
     Art Education Option  
     Art History Option  
     Applied Photography Option  
     Studio Option

### Bachelor of Fine Arts

Emphasis	
Applied Photography	Intermedia
Art History	Painting
Ceramics	Photography
Drawing	Printmaking
Graphic Design	Sculpture

### Minor

Art

## GENERAL EDUCATION COURSES OFFERED

ART 100 Art Appreciation  
 ART 101 Survey of Western Art I  
 ART 102 Survey of Western Art II  
 ART 103 Survey of Western Art III  
 ART 104 Survey of Asian Art

## SELECTIVE ADMISSION REQUIREMENTS

At the time of initial entrance into the department, all students are viewed as candidates for the BA. Admission to BFA candidacy is by portfolio review.

## ART MAJOR REQUIREMENTS

- Portfolio Review** - Upon completion of 60 semester hours, students majoring in Art who intend to apply for admission to the BFA degree option must register for ART 299: in that minimum 60 semester hours must be the core courses (ART 111, 121, and 122), one art history survey (ART 101, 102, 103, or 104), and two studio art courses. ART 299: Portfolio Review requires students who wish to apply for admission to the BFA to submit their work for review by the art faculty. Students whose intent is to continue as BA candidates are not required to register for ART 299: Portfolio Review. After an unsuccessful application to the BFA, a student may reapply only once and after the completion of 75 semester hours of University study. A student whose second application is not successful may continue on to complete the BA degree.

- To participate in the Portfolio Review, students must have an overall GPA of at least 2.00. Students admitted to the BFA must re-declare their major as a BFA with the Office of the Registrar.
- To graduate with the BFA from the department, students must achieve and maintain a minimum overall GPA of 2.00 and must have a minimum GPA of 3.00 in their major.
- All students majoring in art are required to take one 3-semester-hour general education course from music or theatre.
- The grade of *D* is not applicable toward the major in art. A student receiving a grade of *D* must repeat the course in order to obtain a grade of *C* or better. A course may be repeated only twice for this purpose.
- Senior BFA students who have applied for graduation are required to register for ART 497: Senior Exhibition which requires an exhibit and faculty critique of their work.

## Intermedia

The department offers an Intermedia option for students interested in a cross-disciplinary approach to the studio arts. This option draws upon already existing courses and/or courses that might be taught on an experimental basis in the department. With two advising faculty members from appropriate areas within the department, a student writes a contract to combine studio areas at the 300 level or above to form an Intermedia emphasis.

Please note: This area of emphasis is available only after an art major has made successful application for the BFA program.

## Transfer Students

Art students transferring to Northern and anticipating graduation from Northern must complete at least 15 semester hours of coursework in the department. Department curriculum requirements will be determined in consultation with such students in the first semester of their transfer. If their intention is to acquire the BFA degree, students transferring to Northern who have completed 75 or more semester hours of study, including 21 hours or more in art, must submit their portfolio for review by the art faculty. This should be done during the student's first semester with the department.

The department has policies concerning advanced standing, testing out, and portfolio review. Upon admission to the university, students should contact the art department chair and/or an advisor as soon as possible. Advising sheets are available in the department office.

## FACULTY'S MAIN OBJECTIVES

- To provide the training necessary to enable students to achieve the level of artist and designer.
- To prepare students to continue their educational experiences in a graduate institution.
- To train teachers of the visual arts.
- To serve the community and the Commonwealth by presenting visual arts to the public.
- To contribute to the broad educational background that is the mark of the cultured person.
- To help students at Northern through curriculum, art exhibitions, and experience in gallery work to acquire discriminating taste and soundness of judgment in matters pertaining to the arts.

## BACHELOR'S DEGREE PROGRAMS

### Bachelor of Arts Programs

#### Graphic Design

##### *Freshman Year Required Core Courses*

ART 111 Concepts	3
ART 123 Foundations Studio I	3
ART 124 Foundations Studio II	3
ART 210 Drawing I	3

##### *To be Taken After Core*

ART 103 Survey of Western Art III	3
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ART 225 Introduction to Graphic Design	3
ART 226 Introduction to Typography	3
ART 230 Painting I	3
ART 290 Basic Photography	3
ART 310 Intermediate Drawing	3
ART 321 History of Design	3
ART 224 Introduction to Computer Graphics for Design	3
ART 323 Intermediate Computer Graphics for Design	3
ART 325 Graphic Production	3
ART 326 Illustration	3
Elective chosen from courses numbered 200-level or above	3
Elective chosen from courses numbered 300-level or above	3
ART 497 Senior Exhibition	<u>0</u>
Total semester hours in program	51

**Studio Arts (Studio Option)***Freshman Year Required Core Courses*

ART 111 Concepts in Art	3
ART 123 Foundations Studio I	3
ART 124 Foundations Studio II	3
ART 210 Drawing I	3

*To be Taken After Freshman Year Core*

ART 101, 102, 103 Survey of Western Art I, II, III; ART 104 Survey of Asian Art (any 3 three)	9
Elective in upper-division art history	3
Studio concentration (18 hours): electives in this area must include at least 3 semester hours 2D arts; at least 6 semester hours in 3D arts:	
ART 497 Senior Exhibition	<u>0</u>

Total semester hours in program 42

**Studio Arts (Applied Photography Option)***Freshman Year Core Courses*

ART 111 Concepts in Art	3
ART 123 Foundations Studio I	3
ART 124 Foundations Studio II	3
ART 210 Drawing I	3

*To be Taken After Freshman Core*

ART 103 Survey of Western Art III	3
ART 290 Basic Photography	3
ART 299 Portfolio Review	0
ART 358 History of Photography	3
ART 390 Photography II	3
ART 391 Intermediate Photography	3-6
ART 392 Applied Photography I	3
ART 393 Color Photography	3
ART 395 Applied Photography II	3
ART 396 Photo-documentary	3-6
ART 397 Digital Photography	3
ART 490 Advanced Photography	3
Elective in art history	<u>3</u>

Total semester hours in program 54

**Studio Arts (Art History Option)***Freshman Year Core Courses*

ART 111 Concepts in Art	3
ART 123 Foundations Studio I	3
ART 124 Foundations Studio II	3

*To be Taken after Core Courses*

ART 101, 102, 103 Surveys of Western Art I, II, III	9
ART 104 Survey of Asian Art	3
Upper division art history electives	9

*Required Studio Courses*

Electives: 3 courses with a minimum of one in 2D studio and one in 3D studio	9
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*Other Requirements*

ART 499 Gallery Internship	3
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Foreign language: two semesters or high school equivalent	8
Electives: (chosen from religion, philosophy, anthropology, or history in consultation with adviser)	<u>6</u>
Total semester hours in program	56

**Studio Arts (Art Education Option)**

Students pursuing an art education/P-12 curriculum should review that portion of the undergraduate catalog relating to secondary education. Upon deciding to pursue the teacher education program, students must schedule an appointment with the coordinator of certification and advisement in the College of Education.

Students must meet art, education, and general education requirements.

*Freshman Year Requirement Core Courses*

ART 111 Concepts in Art	3
ART 123 Foundations Studio I	3
ART 124 Foundations Studio II	3
ART 210 Drawing I	3

*To be Taken After Core Courses*

ART 101, 102, 103 Survey of Western ART I, II, III or	
ART 104 Survey of Asian Art (any three)	9
ART 281 Concepts in Art Education	3
ART 282 Elementary Methods	3
ART 310 Intermediate Drawing	3
ART 230 Painting I	3
(may be applied to concentration or exploration hours)	
ART 382 Curriculum and Instruction for Secondary Students	3
Studio concentration: 12 hours (9 at upper-division)	12
Explorations: 12 hours (from studios not in studio concentration)	12
Upper-division art history	3
*ART 497 Senior Exhibit	<u>0</u>

Total semester hours in program 60

**Bachelor of Fine Arts (BFA) Programs**

Students admitted to the BFA programs are not required to fulfill a minor or area of concentration outside the major. Nonetheless, the department strongly encourages these students to take any elective hours outside of art to create breadth in their body of knowledge.

**Applied Photography Emphasis***Freshman Year Core Courses*

ART 111 Concepts in Art	3
ART 123 Foundations Studio I	3
ART 124 Foundations Studio II	3
ART 210 Drawing I	3

*To be Taken After Freshman Year Core*

ART 102 Survey of Western Art II	3
ART 103 Survey of Western Art III	3
ART 290 Basic Photography	3
ART 299 Portfolio Review	0
ART 358 History of Photography	3
ART 390 Photography II	3
ART 391 Intermediate Photography	3-6
ART 392 Applied Photography I	3
ART 393 Color Photography	3
ART 395 Applied Photography II	3
ART 396 Photo-Documentary	3-6
ART 397 Digital Photography I	3
ART 450 Advanced Studio Seminar	3
ART 490 Advanced Photography	6
Two-dimensional elective 200 level or above	3
Three-dimensional elective 200 level or above	3
Upper-division art history elective	3
2D elective taken before end of sophomore year	3
3D elective taken before end of sophomore year	3
Electives chosen from: ART 316, ART 493, BIO 350	3

ART 497 Senior Exhibition (optional)	<u>0</u>
Total semester hours in program	72

**Art History Emphasis***Freshman Year Required Core Courses*

ART 111 Concepts in Art	3
ART 123 Foundations Studio I	3
ART 124 Foundations Studio II	3

*To be Taken after Core Courses*

ART 101, 102, 103 Surveys of Western Art I, II, III	9
ART 104 Survey of Asian Art	3
ART 458 Art History Methodology and Criticism	3
Electives in upper-division art history	12

*Required Studio Electives*

ART 210 Drawing I	3
ART 230 Painting I	3
ART 262 Sculpture I	3

*Studio Electives:*

Choose two: ART 240, 272 or ART 290	6
ART 299 Portfolio Review	0

*Other Requirements*

ART 499 Gallery Internship	3
Foreign language: four semesters <i>or</i> high school equivalent	14
Electives: (chosen from anthropology, history, philosophy, religion in consultation with adviser)	9
Senior Project (equivalent to ART 497)	<u>0</u>
Total semester hours in program	77

**Ceramics Emphasis***Freshman Year Required Core Courses*

ART 111 Concepts in Art	3
ART 123 Foundations Studio I	3
ART 124 Foundations Studio II	3
ART 210 Drawing I	3

*To be Taken After Freshman Core*

ART 101, 102 103 Survey of Western Art I, II, III; or ART 104 Survey of Asian Art (any three)	9
ART 230 Painting I	3
ART 240 Ceramics I	3
ART 262 Sculpture I	3
ART 272 Introduction to Printmaking	3
ART 290 Basic Photography	3
ART 299 Portfolio Review	0
ART 340 Wheel Throwing	3
ART 341 Ceramic Sculpture	3
Additional 300-level ceramics	3
ART 440 Advanced Ceramics repeated for 6-12 hours)	6-12
ART 442 Ceramics Materials and Techniques	3
ART 450 Advanced Studio Seminar	3
Two upper-division art history courses	6
ART 497 Senior Exhibition	<u>0</u>
Total semester hours in program	63-69

**Drawing Emphasis***Freshman Year Required Core Courses*

ART 111 Concepts in Art	3
ART 123 Foundations Studio I	3
ART 124 Foundations Studio II	3
ART 210 Drawing I	3

*To be Taken After Freshman Core Courses*

Choose three: ART 101, 102, 103 Survey of Western Art I, II, III; or ART 104 Survey of Asian Art (any three)	9
ART 230 Painting I	3
ART 240 Ceramics I	3
ART 262 Sculpture I	3
ART 272 Introduction to Printmaking	3

ART 290 Basic Photography	3
ART 299 Portfolio Review	0
ART 310 Intermediate Drawing	3-6
ART 410 Advanced Drawing	9-12
Electives in art: (6 hours)	6
ART 450 Advanced Studio Seminar	3
Upper-division art history: (6 hours)	6
ART 497 Senior Exhibition	<u>0</u>
Total semester hours in program	63-69

**Graphic Design Emphasis***Freshman Year Required Core Courses*

ART 111 Concepts in Art	3
ART 123 Foundations Studio I	3
ART 124 Foundations Studio II	3
ART 210 Drawing I	3

*To be Taken After Freshman Core Courses*

ART 101, 102, 103 Survey of Western Art I, II, III; or ART 104 Survey of Asian Art (any three)	9
ART 224 Introduction to Computer Graphics for Design	3
ART 225 Introduction to Graphic Design	3
ART 226 Introduction to Typography	3
ART 230 Painting I	3
ART 290 Basic Photography	3
ART 299 Portfolio Review	0
ART 310 Intermediate Drawing	3
ART 321 History of Design	3
ART 323 Intermediate Computer Graphics for Design	3
ART 325 Graphics Production	3
ART 326 Illustration	3
ART 327 Advanced Typography	3
ART 421 Special Topics in Graphic Design	3
ART 425 Advanced Graphic Design I	6
ART 426 Advanced Graphic Design II	3
2D elective	3
3D elective	3
Open studio elective 200-level or above	3
ART 428 Senior Project in Graphic Design	3
ART 497 Senior Exhibition (taken final semester)	<u>0</u>
Total semester hours in program	78

**Intermedia Emphasis (by permission only)**

This area of emphasis is by permission only. A intermedia contract is available in the department and requires signatures from art faculty and the department chair. Intermedia is intended for students who wish to work across studio disciplines and must involve two or more studio areas.

*Freshman Year Core Courses*

ART 111 Concepts in Art	3
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ART 123 Foundations Studio I	3
ART 124 Foundations Studio II	3
ART 210 Drawing I	3
<i>To be Taken After Freshman Core Courses</i>	
ART 101, 102, 103 Survey of Western Art I, II, III; or ART 104 Survey of Asian Art	9
ART 230 Painting I	3
ART 240 Ceramics I	3
ART 262 Sculpture I	3
ART 272 Introduction to Printmaking	3
ART 290 Basic Photography	3
ART 299 Portfolio Review	0
ART 310 Intermediate Drawing	3
Electives: from 2 or 3 areas of emphases at 300-level or above	21-24
Upper-division art history: (6 hours)	6
ART 450 Advanced Studio	3
ART 497 Senior Exhibition	<u>0</u>
Total semester hours in program	69-72

**Painting Emphasis***Freshman Year Core Courses*

ART 111 Concepts in Art	3
ART 123 Foundations Studio I	3
ART 124 Foundations Studio II	3

*To be Taken After Freshman Core Courses*

ART 101, 102, 103 Survey of Western Art I, II, III; or ART 104 Survey of Asian Art	9
ART 210 Drawing I	3
ART 230 Painting I	3
ART 240 Ceramics I	3
ART 262 Sculpture I	3
ART 272 Introduction to Printmaking	3
ART 290 Basic Photography	3
ART 299 Portfolio Review	0
ART 310 Intermediate Drawing	3
ART 330 Painting II	3-6
ART 333 Materials and Techniques in Painting	3-6
ART 430 Painting III	6-9
ART 450 Advanced Studio seminar	3
Upper-division Studio elective	3
Upper-division art history	6
ART 497 Senior Exhibition	<u>0</u>
Total semester hours in program	60-69

**Photography Emphasis***Freshman Year Required Courses*

ART 111 Concepts in Art	
ART 123 Foundations Studio I	3
ART 124 Foundations Studio II	3
ART 210 Drawing I	3

*To be Taken After Freshman Core Courses*

ART 101, 102, 103 Survey of Western Art I, II, III; or ART 104 Survey of Asian Art (any three)	9
ART 230 Painting I	3
ART 240 Ceramics I	
ART 262 Sculpture I	3
ART 272 Introduction to Printmaking	3
ART 290 Basic Photography	3
ART 299 Portfolio Review	0
ART 358 History of Photography	3
ART 390 Photography II	3
ART 391 Intermediate Photography	3-6
ART 392 Applied Photography I	3
ART 393 Color Photography	3
ART 396 Photo Doc	3

ART 397 Digital Photo	3-6
ART 450 Advanced Studio seminar	3
ART 490 Advanced Photography	3
Elective from: ART 316, 493	3
Upper-division art history elective	3
ART 497 Senior Exhibition	<u>0</u>
Total semester hours in program	72

**Printmaking Emphasis***Foundation Core*

ART 111 Concepts in Art	3
ART 123 Foundations Studio I	3
ART 124 Foundations Studio II	3
ART 210 Drawing I	3

*To be Taken After Foundation Core Courses*

ART 101, 102, 103 Survey of Western Art I, II, III or ART 104 Survey of Asian Art (any three)	9
ART 230 Painting I	3
ART 240 Ceramics I	3
ART 262 Sculpture I	3
ART 272 Introduction to Printmaking	3
ART 290 Basic Photography	3
ART 299 Portfolio Review	0
Any 300-level Studio	3
ART 373 Intermediate Printmaking	3
ART 374 Techniques in Printmaking	3
ART 450 Advanced Studio Seminar	3
ART 473 Advanced Printmaking	6
Any 300 or above Printmaking elective	6
Upper-division art history electives	6
ART 497 Senior Exhibition	<u>0</u>
Total semester hours in program	66

**Sculpture Emphasis***Freshman Year Core Courses*

ART 111 Concepts in Art	3
ART 123 Foundations Studio I	3
ART 124 Foundations Studio II	3

*To be Taken After Freshman Core Courses*

ART 101, 102, 103 Survey of Western Art I, II, III; or ART 104 Survey of Asian Art	9
ART 210 Drawing I	3
ART 230 Painting I	3
ART 240 Ceramics I	3
ART 262 Sculpture I	3
ART 272 Introduction to Printmaking	3
ART 290 Basic Photography	3
ART 299 Portfolio Review	0
ART 341 Ceramic Sculpture	3
ART 362 Special Topics in Sculpture: Concepts and Media	9
ART 450 Advanced Studio seminar	3
ART 460 Sculpture: Advanced Study	6-12
Upper-division art history courses	6
ART 497 Senior Exhibition	<u>0</u>
Total semester hours in program	63-69

**The Minor in Art**

ART 101, 102, 103 Survey of Western Art I, II, III; ART 104 Survey of Asian Art (any two courses)	6
ART 123 Foundations Studio I	3
ART 124 Foundations Studio II	3
Electives chosen from art history, ceramics, drawing, painting photography, printmaking, sculpture	<u>15</u>
Total semester hours in program	27

# Biological Sciences Department

## FACULTY

Debra K. Pearce, *chair*

Charles A. Acosta, Hazel A. Barton, Richard L. Boyce, Gregory A. Dahlem, Debby S. Dempsey, Richard D. Durtsche, Rebecca L. Evans, Larry A. Giesmann, Jon M. Hastings, Marian Steinitz Kannan, Dennis J. Lye, Nicole T. Minor, Elinor E. Rambo, Thomas C. Rambo, Raymond E. Richmond, Patrick J. Schultheis, Thomas M. Sproat, Maggie Whitson

## CONTACTING THE DEPARTMENT

The Department of Biological Sciences is located in SC 204D and may be reached during business hours by phone at 859-572-5110. Visit the department's website at <http://www.nku.edu/~biosci>.

Debra K. Pearce, *chair*      [pearce@nku.edu](mailto:pearce@nku.edu)

## PROGRAMS OFFERED

### Majors

General Biology  
Teacher Education in Biology  
Environmental Science (Interdisciplinary)

### Minors

General Biology  
Environmental Studies

The department provides advising in the following additional areas: pre-dentistry, pre-medicine, pre-veterinary medicine, pre-optometry, pre-pharmacy, pre-physical therapy, pre-physician assistant, pre-forestry, and pre-wildlife management.

## GENERAL EDUCATION COURSES OFFERED

BIO 120 General Biology  
BIO 121 Systems Biology  
BIO 123 Human Ecology  
BIO 125 Biological Perspective of Wellness  
BIO 126 Human Nutrition  
BIO 150, 150L, 150R Introduction to Biology I  
BIO 151, 151L, 151R Introduction to Biology II  
BIO 160 Plants and Human Cultures  
BIO 208, 208L Human Anatomy and Physiology I  
BIO 209, 209L Human Anatomy and Physiology II

## PRE-MAJOR AND SELECTIVE ADMISSION REQUIREMENTS

### Pre-Major

Freshman students who have been admitted to the University may declare as pre-majors in the Department of Biological Sciences by meeting either of the two following requirements.

- (1) Students who come with ACT scores (or comparable SAT Scores) that enable them to enter the University without having to take a developmental course or courses may declare as pre-biology majors. A student with one or more identified deficiencies on the ACT may also qualify for pre-biology status after passing the appropriate placement exam(s).
- (2) Students may qualify for acceptance as a pre-biology major after they complete (with a minimum grade of *C*) any developmental courses required as a result of low ACT scores.

Once a student has been accepted as a pre-major in the Department, he or she will be assigned a departmental adviser. Prior to that time, she or he will be advised by an academic adviser in the College of Arts and Sciences Advising Center.

A student who has been accepted as a pre-major in the Department of Biological Sciences may enroll in courses in introductory biology (BIO 150 & 151) and general chemistry (CHE 120 & 121). Once these courses, along with a course in mathematics (MAT 120 or 205), have been completed with a grade of *C* or higher, a student may be admitted as a biology major. Unless special permission is given by the course instructor and approved by the chair, a pre-biology major who has not been admitted as a biology major will not be allowed to enroll in 200-level or higher level biology courses (with the exception of BIO 202, 208, 209, and 272).

Transfer students who enter Northern with completed coursework in biology, chemistry, and mathematics (minimum grade of *C* required) that is evaluated as equivalent to that mentioned above may apply for admission as a biology major. Students without equivalent courses in biology, chemistry, and mathematics and with no admission deficiencies may apply for admission as a pre-biology major. Ideally, this determination will be made prior to a student's first semester of enrollment. If this is not accomplished in a timely manner, the student will be admitted as a pre-major in biology until an evaluation of transfer work can be completed. This assumes that the transfer student has completed any necessary developmental work as discussed above.

The plan stated above applies to those students pursuing degrees in general biology, teacher education in biology, environmental science, and to those interested in any of the pre-professional areas offered by the Department. Since the first year curriculum for all of these programs is essentially the same, the requirements for admission stated above apply to all programs in the Department.

### Transfer Students

Transfer students obtaining a major in biological sciences must complete 20 of the required 39 semester hours in biological sciences at NKU. Transfer students who have completed a year of major-level college prior to arrival at Northern are encouraged to enroll in BIO 152-153 (Biology Orientation I and II) at their earliest opportunity. These are 1-semester-hour courses designed to provide an orientation to the discipline of biology as well as to the department and its faculty.

## DEPARTMENT POLICIES

Students must obtain approval of their curricula in consultation with an adviser in the department.

Six semester hours of cooperative education credit may be applied toward the 39 semester hours required for the major in biological sciences. Applicability of cooperative education credit to fulfill area requirements (A.7 below) will be determined on an individual basis. Arrangements to use cooperative education credit for the major must be made among the student, the student's adviser, and the cooperative education coordinator in biological sciences prior to registration for such credit.

The degree of Bachelor of Science, major in biological sciences, is conferred upon students completing: (a) requirements for a major in biological sciences, and (b) other NKU requirements for the degree.

The degree of Bachelor of Arts, major in biological sciences, is conferred upon students completing, in addition to requirements for the Bachelor of Science, the following: (a) at least 8 semester hours in a modern foreign language, (b) at least 3 semester hours in philosophy, and (c) at least 3 semester hours in fine arts.

NOTE: These additional courses may also be used to satisfy, in part, the general education requirements.

### Undergraduate Research

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. To prepare for this, students should complete BIO 240 (Information Resources in Biological Sciences) as soon as possible following the completion of BIO 150-151. This course helps students develop the skills they will need to effectively research the literature available on a topic. BIO 340 (Principles of Research) should then be taken as soon as possible following comple-

tion of BIO 240. This course is designed to familiarize students with modern scientific methodology, experimental design, development of research proposals, and presentation of biological information. Upon completion of BIO 340, students are encouraged to enroll in BIO 399 (Techniques of the Biological Sciences). Working with a faculty member in BIO 399, students will learn techniques they can use in BIO 492 (Directed Research). In some instances, students may bypass BIO 399 and go directly to BIO 492.

### Assessment Testing

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. This requirement applies to general biology majors as well as students majoring in teacher education in biology and will be met by registering for BIO 491 Comprehensive Examination during the senior year. Students who fail the exam will not be allowed to graduate until the exam is passed.

### FACULTY'S PRIMARY OBJECTIVES

1. To help students develop exact, critical, and independent thought.
2. To increase students' perception, understanding, and appreciation of themselves and of their environment.
3. To create student awareness of and interest in the role of the biological sciences in meeting societal and economic needs.
4. To emphasize to students the importance of interdisciplinary science experiences and proficiency.
5. To provide for students the biological sciences background necessary for entrance into a career or into graduate and professional schools.
6. To make fully available to residents of northern Kentucky and greater Cincinnati the resources of the faculty.
7. To maintain excellence of the faculty through continuing professional activity.

### BACHELOR'S DEGREE PROGRAMS

#### General Biology

The general biology program is designed to give students a strong background in biological sciences preparatory to a biologically oriented career or to graduate work. Student interest in botany, aquatic biology, microbiology, medical technology, zoology, or other facets of biology—or in any combination of these—can be met by taking, as “electives” in the curriculum suggested below, courses in these disciplines; details of such emphases should be worked out in consultation with an adviser.

#### Requirements for a major in general biology are as follows:

##### A. At least 39 semester hours of courses in biological sciences or biochemistry (CHE 482, 482L, 483) (minimum acceptable grade: C), including:

1. BIO 150-150L-150R, 151-151L-151R Introduction to Biology I and II
2. BIO 240 Information Resources in Biological Sciences
3. BIO 352-352L Genetics
4. BIO 340 Principles of Research
5. At least one of the following four courses (the course selected cannot also be used to fulfill an area requirement in A.7 below):
  - BIO 360 Biology of the Cell
  - BIO 400 Molecular Biology
  - BIO 426-426L Mammalian Anatomy and Physiology II
  - BIO 446-446L Plant Physiology
6. At least one of the following four courses (the course selected cannot also be used to fulfill an area requirement in A.7 below):
  - BIO 300-300L Comparative Vertebrate Anatomy
  - BIO 304 General Ecology
  - BIO 358 Evolution of Organisms

#### BIO 409 Biogeography

7. At least one course from two of the following three areas with a minimum of 3 semester hours from each selected area (a course from the remaining area is strongly recommended); a course used to fulfill one area cannot also be used to fulfill another area:
  - a. Animal Biology: BIO 300, 301, 303, 305, 320, 381, 404, 407, 421, 425, 440
  - b. Plant Biology: BIO 211, 308, 309, 310, 311, 312, 416, 445, 446
  - c. Field biology: BIO 129, 131, 306, 309, 312, 330, 404, 407, 416, 421, 422, 460, 465
8. BIO 491 Comprehensive Examination.

#### B. The following courses in supporting disciplines (minimum acceptable grade: C):

CHE 120-120L, 121-121L General Chemistry I and II 8

##### Option I

CHE 310-310L, 311-311L Organic Chemistry I and II 8

or

##### Option II

CHE 310-310L Organic Chemistry I 4

Plus one additional upper-division course of at least 3 semester hours in chemistry, geology, or physics to be selected from the following:

CHE 340-340L Analytical Chemistry 5

CHE 440 Environmental Chemistry 3

GLY 302-302L Historical Geology 4

GLY 315-315L Structural Geology 4

GLY 330 Geomorphology 4

GLY 402-402L Invertebrate Paleontology 4

PHY 304-304L Electronics and Circuit Analysis 4

PHY 315 Introduction to Astrophysics 3

*Option 2 is not open to students with interests in pre-dentistry, pre-medicine, pre-optometry, pre-veterinary medicine, pre-pharmacy, or with plans for graduate school in areas such as biochemistry, physiology, microbiology, molecular biology, and others. It requires approval of student's adviser and department chair. Approval must be obtained during the semester that CHE 310 is being taken or before, not during program certification.*

MAT 120 Calculus I (or MAT 205 Introduction to Statistical 5(3) Methods)

PHY 211, 213 General Physics with Laboratory I and II or 10

PHY 220, 222 University Physics with Laboratory I and II 10

**C. General Education Stipulation.** Student will satisfy the humanities requirement of the General Education Requirements (see “HUMANITIES” on page 27) by taking a sequence of two courses in the same Foreign Language.”

#### General Biology Suggested Semester-by-Semester Curriculum Plan

The following is a suggested semester-by-semester curriculum plan for a four-year program of study in general biology. However, the faculty understands that the demands of work, family, and numerous other factors may make it necessary for some students to take five years or even longer to complete a degree.

1st semester    2nd semester

*Freshman Year*

BIO 150-150L-150R, 151-151L-151R



Introduction to Biology I and II CHE 120-120L, 121-121L General Chemistry I and II	5	5
ENG 101 College Writing	3	
General education electives	3	6
<b>Total</b>	<b>15</b>	<b>15</b>

*Sophomore Year*

BIO 240 Information Resources In Biological Sciences		2
BIO 352-352L Genetics	4	
Electives in biological sciences	3-4	3-5
ENG 291 Advanced College Writing	3	
CHE 310-310L, CHE 311-311L Organic Chemistry I and II	4	4
MAT 120 Calculus I (or MAT 205 Introduction to Statistical Methods)		5(3)
General education elective		3
<b>Total</b>	<b>14-15</b>	<b>15-19</b>

*Junior Year*

BIO 340 Principles of Research	2	
Elective in biological sciences	6-7	4-5
PHY 211, 213 General Physics with Laboratory I and II	5	5
General education electives	3	6
<b>Total</b>	<b>16-17</b>	<b>15-16</b>

*Senior Year*

Electives in biological sciences	3-4	3-4
Electives	12	12
<b>Total</b>	<b>15-16</b>	<b>15-16</b>

**Teacher Education in Biology**

The teacher education program in biology is designed to give future biology teachers a broad overview of the biological sciences. This has been assured by the wide range of biological science courses required by the program. The additional requirement of related courses such as chemistry and physics will provide students with the background necessary for teaching in these areas, if the need should arise.

The program below meets all requirements of the State Department of Education and NKU for certification in biology. Because of the need to meet both professional and general education requirements, there is little flexibility in this program. One should note that the departmental requirements for this program differ from those established for the major in general biology.

Transfer students pursuing a degree in teacher education in biology must meet the minimum transfer requirements stated earlier in this section. Students with a degree in another discipline who wish to become biology teachers may do so by completing only certification requirements.

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 coordinator of certification and advisement in the College of Education.

1st semester    2nd semester

*Freshman Year*

BIO150-150L-150R, 151-151L-151R		
Introduction to Biology I and II	5	5
CHE 120-120L, 121-121L General Chemistry I and II	4	4
ENG 101 College Writing	3	
MAT 205 Introduction to Statistical Methods (or MAT 120 Calculus I)		3-5

PHE 200 Concepts of Lifetime Fitness		2
PSY 100 Introduction to Psychology	3	
Elective in physical education (activity)		1
<b>Total</b>	<b>15</b>	<b>15-17</b>

*Sophomore Year*

BIO 240 Information Resources In Biological Sciences		2
BIO 301-301L Invertebrate Zoology or BIO 302-302L General Microbiology)	4	
BIO 304 General Ecology	3	
BIO 306 Ecology Laboratory	2	
BIO 352-352L Genetics		4
Elective in Biological Sciences (botany: BIO 211-211L, 308-308L, 310-310L, or 445-445L)		4
ENG 291 Advanced College Writing	3	
General education elective	6	8
<b>Total</b>	<b>18</b>	<b>18</b>

*Junior Year*

BIO 208-208L, 209-209L Human Anatomy and Physiology I and II	4	4
BIO 303-303L Vertebrate Zoology or BIO 302-302L General Microbiology	4	
EDU 300 Human Growth and Development		3
EDU 305 Introduction to Education		2
EDU 311 Admission Practicum for Secondary Grades		2
EDU 313 Computer Applications for Teachers		1
EDS 360 Students with Exceptionalities In the Schools	2	
PHY 211, 213 General Physics with Laboratory I and II	5	5
General education electives	3	
<b>Total</b>	<b>18</b>	<b>17</b>

*Senior Year*

EDU 315 Educational Assessment	2	
EDU 324 Fundamentals of Secondary Education	3	
EDU 330 Teaching Science in the Secondary School	3	
EDU 393 Secondary Practicum	2	
EDU 496 Student Teaching in Secondary School		12
General education electives	6	
<b>Total</b>	<b>16</b>	<b>12</b>

**Environmental Science**

The Bachelor of Science in Environmental Science is an interdisciplinary degree offered in collaboration with the Department of Chemistry and the Department of Physics and Geology. It is designed to provide students breadth in the scientific disciplines associated with environmental issues. For program details, please see "Interdisciplinary Studies," "Bachelor of Science in Environmental Science" on page 84 of this catalog.

**The Minor in Biological Sciences**

Requirements for a minor in biological sciences are as follows:

- A. At least 23 semester hours in biological sciences (minimum acceptable grade: C), including:
  1. BIO 150-150L-150R, 151-151L-151R Introduction to Biology I and II

2. BIO 240 Information Resources in Biological Sciences
3. At least one course from each of the following three groups:
- BIO 211-211L General Botany 4  
BIO 308-308L Plant Systematics 4  
BIO 310-310L Plant Morphology 4  
BIO 446-446L Plant Physiology 5  
BIO 416 Field Botany 3-4
  - BIO 300-300L Comparative Vertebrate Anatomy 5  
BIO 301-301L Invertebrate Zoology 4  
BIO 303-303L Vertebrate Zoology 4  
BIO 440-440L Animal Behavior 4  
BIO 426-426L Mammalian Anatomy and Phys. II 4
  - BIO 302-302L General Microbiology 4  
BIO 304 General Ecology 3  
BIO 352-352L Genetics 4  
BIO 360 Biology of the Cell 3
- B. At least two semesters of college chemistry (CHE 120-120L, 121-121L) and one semester of college mathematics (MAT 119 or above).

**Environmental Studies:** For program details, see page 87 under “Interdisciplinary Studies” of this catalog.

## PRE-PROFESSIONAL CURRICULA

### Pre-Dentistry and Pre-Medicine

In preparation for admission to dental or medical schools, it is advisable to obtain a broad background in natural sciences, social sciences, and humanities. Students should consult bulletins from schools of their choice for specific entrance requirements. The usual minimum requirements for admission to dental or medical schools are listed page 139 of this catalog under “Pre-Professional Programs.”

Dental and medical schools give preference to applicants with the bachelor’s degree. In exceptional cases, however, such schools may accept students after completion of the junior year. Under certain conditions, credit earned during the first year at dental or medical school may be accepted by Northern to fulfill its requirements for the fourth year of undergraduate studies leading to the bachelor’s degree. Students considering such a three-year program at Northern should, in consultation with an adviser, plan curricula that satisfy the requirements set forth under “Transfer of Credit from Professional or Graduate Schools to NKU’s Bachelor’s Programs” on page 39 of this catalog.

Since most students will complete a degree in general biology enroute to the completion of requirements for acceptance into medical or dental school, the previously mentioned curriculum plan for a general biology degree should be followed. Faculty advisers strongly recommend that pre-medical and pre-dental students include BIO 302 General Microbiology, BIO 360 Cell Biology, and BIO 482 Biochemistry I among the courses taken to meet degree requirements.

In their junior year, students must register with Northern’s Pre-Medical Review Board to indicate intended application to medical or dental school. Information on the Board may be obtained from students’ advisers.

### Pre-Veterinary Medicine

Although Kentucky does not have a school of veterinary medicine, a limited number of Kentucky residents are selected to enter training in veterinary medicine at Auburn University (Auburn, Alabama) and Tuskegee Institute (Tuskegee, Alabama). These students are exempt from out-of-state tuition.

Most students require at least three years to complete the courses required for admission to veterinary schools. Such a three-year curriculum is presented below. Under certain conditions, credit earned during the first year of veterinary school may be transferred back to Northern to meet the University’s graduation requirements for the bachelor’s degree. Stu-

dents considering a three-year pre-veterinary program at Northern should, in consultation with an adviser, plan curricula that satisfy the requirements set forth under “Transfer of Credit from Professional or Graduate Schools to NKU’s Bachelor’s Programs” on page 39 of this catalog.

Because more students apply to veterinary schools than are accepted, it is strongly recommended that all pre-vet students plan their curricula in such a way that the addition of a year of coursework will satisfy Northern’s requirements for the bachelor’s degree in general biology. A suggested senior year in the curriculum outlined below would consist, each semester, of 9 semester hours of electives in biological sciences and 9 semester hours of other electives.

	1st semester	2nd semester
<i>Freshman Year</i>		
BIO150-150L-150R, 151-151L-151R		
Introduction to Biology I and II	5	5
CHE 120-120L, 121-121L General Chemistry I and II	4	4
ENG 101 College Writing	3	
HIS 100 History of Europe to 1713	3	
HIS 101 History of Europe, 1713 to the Present		3
ENG 206 Western World Literature I		3
Total	15	15
<i>Sophomore Year</i>		
BIO 240 Information Resources In Biological Sciences		2
BIO 272 Medical and Biological Terminology	3	
BIO 302-302L General Microbiology		4
BIO 352-352L Genetics	4	
CHE 310-310L, 311-311L Organic Chemistry I and II	4	4
ENG 207 Western World Literature II		3
ENG 291 Advanced College Writing		3
MAT 119 Pre-Calculus Mathematics	3	
Total	14	16
<i>Junior Year</i>		
BIO 396 Practicum: Veterinary Medicine	2	2
CHE 482 Biochemistry I	3	
PHI 155 Ethics (or PHI 165 Logic)	3	
PHY 211, 213 General Physics I and II	5	5
Electives in biological sciences		3-5
Electives in fine arts		3
Electives in social sciences	3	3
Total	16	16-18

### Pre-Optometry

Students intending to enter the field of optometry should consult with the pre-optometry adviser in planning their curricula. In general, the pre-medicine curriculum (general biology degree plan) with two semesters of calculus is a useful model.

Residents of Kentucky are provided spaces at Indiana University School of Optometry (Bloomington), Southern College of Optometry (Memphis, Tennessee), and the University of Alabama at Birmingham School of Optometry. These students are exempt from out-of-state tuition.

### Pre-Pharmacy

Students planning a career in pharmacy may follow a pre-pharmacy curriculum at NKU for two years and then transfer to a school of pharmacy for the three years of professional training.

In preparation for admission to pharmacy schools, students should be familiar with specific entrance requirements as outlined in the most recent

bulletins from the schools of their choice. The courses listed below can be considered as a core curriculum required by most pharmacy schools. However, individual colleges of pharmacy may require special prerequisite courses. For this reason, students must work closely with their advisers.

Students not admitted to a pharmacy school after the sophomore year may, by completing two additional years at Northern, satisfy NKU requirements for graduation with the bachelor's degree in general biology. They must work closely with their advisors in planning these years.

1st semester 2nd semester

#### Freshman Year

BIO150-150L-150R,151-151L-151R		
Introduction to Biology I and II	5	5
CHE 120-120L, 121-121L General Chemistry I and II	4	4
ECO 201 Principles of Microeconomics		3
ENG 101 College Writing	3	
MAT 120 Calculus I	5	
SPE 101 Principles of Speech Communication		3
Elective		3
<b>Total</b>	<b>17</b>	<b>18</b>

#### Sophomore Year

BIO 302-302L General Microbiology	4	
CHE 310-310L, 311-311L Organic Chemistry I and II	4	4
ENG 291 Advanced College Writing	3	
MAT 205 Introduction to Statistical Methods		3
PHY 211, 213 General Physics I and II	5	5
Electives		5
<b>Total</b>	<b>16</b>	<b>17</b>

### Pre-Physical Therapy

Students planning a career in physical therapy may complete their pre-professional coursework at Northern. They may then apply for admission to and, if accepted, transfer to an institution offering a degree in physical therapy.

At the earliest opportunity, students should schedule an appointment with a faculty adviser to discuss minimum requirements for admission to schools of physical therapy. Students should also consult the catalogs of any schools they plan to apply to.

Students are accepted into physical therapy programs at the University of Kentucky and Bellarmine University without a bachelor's degree. Those completing these programs receive the degree of Bachelor of Health Science the Degree of Master of Science in Physical Therapy. For up-to-date information, students should check current catalogs or websites. For UK the website is <http://www.mc.uky.edu/PT> and the website for Bellarmine is <http://www.bellarmino.edu/>.

If a student is not accepted into a physical therapy school or decides to change major, semester hours earned in this program may be applied toward a bachelor's degree at NKU.

1st semester 2nd semester

#### Freshman Year

BIO150-150L-150R,151-151L-151R		
Introduction to Biology I and II	5	5
CHE 120-120L, 121-121L General Chemistry I and II	4	4
ENG 101 College Writing	3	
MAT 120 Calculus I	5	
MAT 205 Introduction to Statistical Methods		3
PSY 100 Introduction to Psychology		3

General education elective in humanities/fine arts		3
<b>Total</b>	<b>17</b>	<b>18</b>
<i>Sophomore Year</i>		
BIO 272 Medical and Biological Terminology	3	
BIO 300-300L Comparative Vertebrate Anatomy	5	
ENG 291 Advanced College Writing		3
PHY 211, 213 General Physics I and II	5	5
General Education electives in history	3	3
General education elective in humanities/fine arts		3
Developmental psychology		3
<b>Total</b>	<b>16</b>	<b>17</b>

Students must make certain that they complete all required pre-professional courses as well as the general education requirements for any university to which they plan to apply.

In addition to the required courses listed here, certification in first aid and in CPR is required. Students are encouraged to take some coursework in summer to reduce the heavy course load in fall and spring semesters.

For some, it may be more realistic to plan on three years at NKU instead of two.

### Pre-Physician Assistant

Students planning a career as a physician assistant may complete pre-professional coursework at Northern while earning a bachelors degree in the biological sciences. Physician assistant programs are generally masters degree programs that require a bachelors degree prior to entry. For example, the University of Kentucky offers a Master of Science in Physician Assistant Studies. Admission to the program requires: 1) a bachelors degree from an accredited college with a minimum GPA of 3.0 on a 4.0 scale; 2) a combined score of 1200 on the GRE; and 3) a minimum grade of C on pre-requisite courses. Prerequisite courses include the following

- BIO 150 & 151 Introduction to Biology I and II
- BIO 272 Medical and Biological Terminology
- BIO 302 General Microbiology
- BIO 425 & 426 Mammalian Anatomy & Physiology I & II
- CHE 120 & 121 General Chemistry I & II
- CHE 310 & 311 Organic Chemistry I & II
- PSY 100 Introduction to Psychology
- PSY 220 Lifespan Development or
- PSY 320 Psychology of Adult Development
- ANT 100 Cultural Anthropology or
- SOC 100 Introductory Sociology

Students interested in completing prerequisite requirements for a physician assistant program should follow the curriculum plan presented earlier for the degree in general biology. Courses listed above that are not a part of the biology degree may be taken as partial fulfillment of general education requirements. At the earliest opportunity, students should schedule an appointment with a faculty adviser to discuss their interest in becoming a physician assistant. For up-to-date information about the UK program, students should check their website at <http://www.mc.uky.edu/PA>. Students interested in physician assistant programs at other universities should consult the catalogs or websites of those institutions.

### Pre-Forestry

Students interested in forestry may take their first two years of coursework at Northern and then finish work for the bachelor's degree in forestry at a forestry school. If, at the end of the sophomore year, such students do not go on to forestry school the earned credits may be applied toward a bachelor's degree at Northern. In addition to preprofessional requirements, students will have to complete general education require-

ments of the school they attend. Pre-professional requirements for forestry school at the University of Kentucky include the following:

- MAT 111 Introductory Linear Mathematics
- MAT 119 Pre-Calculus Mathematics
- MAT 121 Calculus IA
- MAT 205 Introduction to Statistical Methods
- CHE 120 & 121 Introduction to General Chemistry I & II
- BIO 150 & 151 Introduction to Biology I & II
- PHY 211 General Physics I
- ECO 201 Principles of Microeconomics
- AEC Economics of Food & 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 adviser and consult the catalogs or websites of any forestry

schools that they plan to consider. The University of Kentucky website is <http://www.ca.uky.edu/agcollege/teaching/sas/programs/for/overview.htm>. The curriculum plan for general biology, presented earlier, may be used as a guide for planning the first year of coursework.

### Pre-Wildlife Management

Students interested in wildlife management may complete their first two years of coursework at Northern and then finish work for the bachelor's degree in wildlife management at a university offering such a degree. The first two years of the curriculum plan presented earlier for general biology may be used as a guide for courses to be taken while at Northern. However, at the earliest opportunity, students should consult the catalog or website (for Eastern Kentucky University students should refer to <http://www.biology.eku.edu/FREDERIC/wild.htm>) of the wildlife management program they plan to attend and work with an NKU adviser to make certain that minimum requirements for admission are met. If at the end of the sophomore year, such students do not go on to another school, the earned credits may be applied toward a bachelor's degree at Northern.

## The Center for Integrated Natural Science and Mathematics (CINSAM)

Phillip Schmidt, *director*

The mission of CINSAM is to enhance the teaching, learning, and applying of science and mathematics at NKU and in the schools of the northern Kentucky region through interdisciplinary collaboration.

The Council on Postsecondary Education (CPE) established the Center in 1999 as the *Program of Distinction* at Northern Kentucky University.

Goals for the Center are:

- Prepare teachers for science and mathematics by offering integrative science and mathematics coursework for prospective teachers at all levels and by developing programs of outreach and continuing education for current teachers.
- Prepare students who are capable of handling complex interdisciplinary problems by working with faculty and departments to develop interdisciplinary science and mathematics coursework, by enabling students to collaborate with faculty on research projects, and by facilitating externship opportunities for students with local business and industry.
- Equip the general citizenry to understand science and mathematics by offering opportunities for student of our schools to interact

with faculty and students of the University and by developing learning opportunities that are accessible to the wider community.

For additional information, visit CINSAM's website at [www.cinsam.org](http://www.cinsam.org).



## Chemistry Department

### FACULTY

Diana McGill, *chair*

Gwen Fields, Jean Gade, W. Vernon Hicks, Jr., Robert J. Kempton, Vinay Kumar, James H. Niewahner, William R. Oliver, Laura L. Padolik, K.C. Russell, Keith Walters

### CONTACTING THE DEPARTMENT

The Department of Chemistry is located in SC 204F and may be reached during business hours by phone at 859-572-5409. Visit the department's website at <http://www.nku.edu/~chemistry>.

Diana McGill, *chair*

[mcgill@nku.edu](mailto:mcgill@nku.edu)

### PROGRAMS OFFERED

A major in chemistry can lead to a variety of careers, including chemical research and development, medicine, pharmacy, teaching, law, business, and interdisciplinary sciences such as biochemistry, molecular biology, pharmacology, toxicology, geochemistry, computer science, chemical physics, and chemical engineering. The faculty of Chemistry offers a modern curriculum leading to a Bachelor of Science approved by the American Chemical Society. A Bachelor of Arts can also be earned as can a minor in chemistry. Students interested in biochemistry may earn the BS (Biochemistry track).

Pre-professional students (pre-medical, pre-dental, pre-veterinary, and pre-pharmacy) may also choose chemistry as their major. The BS (Biochemistry track) is particularly suited for pre-professional students.

### GENERAL EDUCATION COURSES OFFERED

CHE 100, 100L Chemistry and Society

CHE 105 Discovering Chemistry with Laboratory  
 CHE 115, 115L Physiological Chemistry  
 CHE 120, 120L General Chemistry I  
 CHE 121, 121L General Chemistry II

### PRE-MAJOR AND SELECTIVE ADMISSION REQUIREMENTS

None

### BACHELOR'S DEGREE PROGRAMS

A major in chemistry may be obtained with either a Bachelor of Science or a Bachelor of Arts. Students who aspire to careers as professional chemists are advised to obtain the Bachelor of Science. Students majoring in chemistry are urged to take at least one year of a foreign language (preferably German) and at least one course in computer science (e.g., CSC 260 or above). Students majoring in chemistry are also urged to participate in independent research (CHE 492).

#### Bachelor of Science

This degree program meets requirements for American Chemical Society certification. The Bachelor of Science, major in chemistry, requires 45 semester hours of chemistry (excluding CHE 100, 110, and 115). These must include:

CHE 120-121 General Chemistry I and II  
 CHE 120L-121L General Chemistry Laboratory I and II  
 CHE 310-311 Organic Chemistry I and II  
 CHE 310L-311L Organic Chemistry Laboratory I and II  
 CHE 320-320L Inorganic Chemistry with Laboratory  
 CHE 340-340L Analytical Chemistry with Laboratory  
 CHE 350-350L Instrumental Analysis with Laboratory  
 CHE 360-361 Physical Chemistry I and II  
 CHE 362L Physical Chemistry Laboratory  
 CHE 400 Chemistry Seminar  
 CHE 482 Biochemistry I

At least 3 additional semester hours of chemistry courses numbered above 400.

MAT 120 and 220 (Calculus I and II) or equivalent and PHY 220 and 222 (University Physics) are also required.

A student completing the Bachelor of Science in chemistry is not required to complete a minor or an area of concentration.

#### Bachelor of Science (Biochemistry Track)

The Bachelor of Science, major in chemistry (biochemistry track), requires the following courses in biology and chemistry:

CHE 120-121 General Chemistry I and II  
 CHE 120L-121L General Chemistry Laboratory I and II  
 CHE 310-311 Organic Chemistry I and II  
 CHE 310L-311L Organic Chemistry Laboratory I and II  
 CHE 340-340L Analytical Chemistry with Laboratory  
 CHE 360-361 Physical Chemistry I and II  
 CHE 362L Physical Chemistry Laboratory  
 CHE/BIO 482-483 Biochemistry I and II  
 CHE/BIO 482L Biochemistry Laboratory  
 CHE 400 Chemistry Seminar  
 BIO 150-150L-150R, 151-151L-151R Introduction to Biology I and II

MAT 120 and 220 (Calculus I and II) or equivalent and PHY 211 and 213 (General Physics) or PHY 220, and 222 (University Physics) are also required.

At least three of the following six courses:

BIO 302-302L General Microbiology  
 BIO 352-352L Genetics  
 BIO 360 Biology of the Cell  
 BIO 400-400L Molecular Biology of the Gene  
 BIO 430 Immunology  
 CHE 350-350L Instrumental Analysis with Laboratory

A student completing this major is not required to complete a minor or an area of concentration.

### Bachelor of Arts

The Bachelor of Arts, major in chemistry, requires 34 semester hours of chemistry (excluding CHE 100, 110, and 115). These must include

CHE 120-121 General Chemistry I and II  
 CHE 120L-121L General Chemistry Laboratory I and II  
 CHE 310-311 Organic Chemistry I and II  
 CHE 310L-311L Organic Chemistry Laboratory I and II  
 CHE 340-340L Analytical Chemistry with Laboratory  
 CHE 360-361 Physical Chemistry I and II  
 CHE 362L Physical Chemistry Laboratory  
 CHE 400 Chemistry Seminar  
 MAT 120 and 220 (Calculus I and II) and PHY 211 and 213, General Physics) or PHY 220, and 222 (University Physics) are also required.

### The Minor in Chemistry

A minor in chemistry requires eight hours of general chemistry plus an additional 12 semester hours of chemistry beyond general chemistry.

### PRE-PROFESSIONAL PROGRAMS

The following pre-professional programs are offered by the Faculty of Chemistry: pre-dentistry and pre-medicine, pre-pharmacy, and pre-veterinary medicine.

To ensure proper planning, students must obtain approval of their programs through consultation with an adviser (a member of the chemistry faculty).

The following sample curricula are offered as guidelines.

#### Pre-Dentistry and Pre-Medicine

In preparation for admission to dental or medical schools, it is advisable to obtain a broad background in natural sciences, social studies, and humanities. Students should consult bulletins from dental and medical schools of their choice for specific entrance requirements. The usual minimum requirements for admission to dental or medical schools are listed elsewhere in this catalog.

In the fall of their junior year, students must register with Northern's Pre-Medical and Pre-Dental Review Board to indicate intended application to these professional schools.

The sample curriculum below lists general requirements and leads to the Bachelor of Arts, major in chemistry

	1st semester	2nd semester
<i>Freshman Year</i>		
CHE 120-120L, 121-121L, General Chemistry I and II	4	4
BIO 150-150L-150R Introduction to Biology I and II	5	5
ENG 101 College Writing	3	
SPE 101 Prin of Speech Communications		3
General education electives	3-6	3-6
<b>Total</b>	<b>15-18</b>	<b>15-18</b>
<i>Sophomore Year</i>		
CHE 310-310L, 311-311L Organic Chemistry I and II	4	4
MAT 120-220 Calculus I and II	5	5
General education electives	3	6
ENG 291 Advanced Writing	3	
<b>Total</b>	<b>15</b>	<b>15</b>
<i>Junior Year</i>		
CHE 340-340L Analytical Chemistry	4	

CHE 350-350L Instrumental Analysis		4	
CHE 482 Biochemistry	3		
CHE 483 Biochemistry II		3	
PHY 211, 213 General Physics I and II	5	5	
Electives	3-6	3-6	
	<b>Total</b>	<b>15-18</b>	<b>15-18</b>

**Senior Year**

CHE 360-361 Physical Chemistry I and II	3	3	
CHE 362 Physical Chemistry Laboratory		2	
CHE 400 Seminar	1		
Electives	12	9	
	<b>Total</b>	<b>16</b>	<b>14</b>

**Pre-Pharmacy**

The usual pre-pharmacy curriculum involves two or three years of work at NKU. If students do not gain admission to pharmacy school, they may then graduate with a bachelor's degree at Northern by completing the requirements for a chemistry major. Individual colleges of pharmacy may require different prerequisite courses than those listed in this sample curriculum. Students are responsible for familiarizing themselves with requirements of their schools of interest.

	1st semester	2nd semester
<i>Freshman Year</i>		
CHE 120-120L, 121-121L, General Chemistry I and II	4	4
BIO 150-150L-150R Introduction to Biology I and II	5	5
ENG 101 College Writing	3	
SPE 101 Prin of Speech Communication		3
MAT 120 Calculus I	5	
Electives		3-6
	<b>Total</b>	<b>17</b>

**Sophomore Year**

CHE 310-310L, 311-311L Organic Chemistry I and II	4	4
PHY 211, 213 General Physics I and II	5	5
BIO 302-302L General Microbiology		4

ENG 291 Advanced Writing	3	
MAT 205 Statistics		3
Elective	3-6	
	<b>Total</b>	<b>15-18</b>

**Pre-Veterinary Medicine**

Although Kentucky does not have a school of veterinary medicine, a limited number of students who are residents of Kentucky are selected to enter training in veterinary medicine at Auburn University, Auburn, Alabama, and Tuskegee Institute, Tuskegee, Alabama. The students are exempt from out-of-state tuition. Students generally need to maintain a grade-point average (GPA) of at least 3.20 to be competitive for admission.

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 year of coursework will satisfy Northern's requirements for the bachelor's degree. A suggested first year of coursework is shown below. To design a four-year curriculum that fulfills the pre-veterinary requirements and those for the BA degree in chemistry, interested students should consult with a chemistry adviser.

	1st semester	2nd semester
<i>Freshman Year</i>		
CHE 120-120L, 121-121L, General Chemistry I and II	4	4
BIO 150-150L-150R Introduction to Biology I and II	5	5
ENG 101 College Writing	3	
SPE 101 Prin of Speech Communication		3
Electives	3	3
	<b>Total</b>	<b>15</b>

**TEACHER EDUCATION IN THE PHYSICAL SCIENCES**

The Bachelor of Arts, major in chemistry, is approved for certification to teach chemistry in Kentucky at the secondary level. Upon deciding to pursue the teacher education program, students must meet with the director of administrative services in the College of Education.



# History and Geography Department

## FACULTY

Jeffrey C. Williams, *chair*

Leon E. Boothe, Lawrence R. Borne, Tripta Desai, William J. Hansen, Eric R. Jackson, John J. Metz, Debra Meyers, David Payne, James Ramage, Jonathan T. Reynolds, W. Michael Ryan, Robert C. Vitz, Michael Washington, Macel Wheeler, Robert W. Wilcox

## CONTACTING THE DEPARTMENT

The Department of History and Geography is located in LA 415 and may be reached during business hours by phone at 859-572-5461. Visit the department's website at <http://www.nku.edu/~hisgeo>.

Jeffrey C. Williams, *chair*                      williamsj@nku.edu

## PROGRAMS OFFERED

### Majors

History  
Geography  
Area of Concentration in Social Studies for Secondary Education

### Minors

History  
Military History  
Geography

## GENERAL EDUCATION COURSES OFFERED

HIS 100 History of Europe to 1713  
HIS 101 History of Europe, 1713 to the Present  
HIS 102 History of the United States through 1877  
HIS 103 History of the United States since 1877  
HIS 106 History of African Americans to 1877  
HIS 107 History of African Americans since 1877  
HIS 108 World History to 1500  
HIS 109 World History since 1500  
HIS 194 Honors Seminar  
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  
GEO 100 Elements of Geography  
GEO 101 World Regional Geography  
GEO 102 Geography of the World's "Developed" Regions  
GEO 103 Geography of the Third World  
GEO 107 Diversity Mapped

## PRE-MAJOR AND SELECTIVE ADMISSION REQUIREMENTS

None

## HISTORY AND GEOGRAPHY

The faculty of History and Geography encompasses two major academic disciplines, each of which is an integral part of the general education curriculum and each of which offers students opportunities for academic specialization. The disciplines also contribute to the following programs within the University: women's studies, international studies, Latin American studies, Afro-American studies, and teacher education.

While it is expected that students will acquire the special skills and techniques of each discipline, the basic emphasis should be on a broad, imaginative, humanistic approach to the study of people and their institutions.

## HISTORY

The major in history, leading to the degree of Bachelor of Arts, is 39 semester hours, the minor 21 semester hours. The faculty also offers a minor in military history, details of which are given below. Prerequisites for the major and minor are few, the general requirements broad. The faculty does not necessarily endorse the building-block concept of courses; generally, it embraces the idea of history as a "way of thinking" and assumes the best prerequisite for any course is the bright, imaginative student.

### Bachelor's Degree Programs

Students must complete (a) survey courses either HIS 100-101 or HIS 108-109 and either HIS 102-103 or HIS 106-107; (b) HIS 385 Art and Method of History; and (c) at least one upper-division course in each of the following areas: United States history, European history, non-western history, and race and/or gender history. All remaining history courses (12 semester hours) must be upper-division. No grade below *C* may be applied to the major. Students majoring in history must have a grade-point average of at least 2.50 in courses counted towards in the major in order to be certified for graduation.

Students who successfully complete HIS 194 (Honors Seminar) need complete only two additional survey courses, but they must take an additional upper-division course to complete the requisite 39 semester hours for the major.

The history major of 39 semester hours may also serve as the nucleus for an Area of Concentration leading to teacher certification. Students pursuing teacher certification must schedule an appointment with the coordinator of certification and advisement in the College of Education at the beginning of their sophomore year since requirements vary. See under "The Area of Concentration in Social Studies for Secondary Education Students" below for specific course requirements.

All students majoring in history are required to participate in outcomes assessment. This involves keeping a portfolio of written work completed in history courses at NKU.

### Minors in History

#### History

Requirements for the minor in history are as follows: (a) students must complete one of the survey sequences (HIS 100-101, HIS 102-103, HIS 106-107 or 108-109); and (b) complete 15 additional semester hours in history (200-level or above).

#### Military History

The minor in military history offers a comprehensive range of courses in modern military history to students who are interested in the problem of war. It consists of 21 semester hours taken from the following:

#### Required courses (6 semester hours)

Two courses from the following list.	6
HIS 323 United States Military History (3)	
HIS 365 European Military History: Ancient World to Renaissance (3)	
HIS 366 European Military History: Renaissance to the Modern World (3)	

#### Modern Wars (9 semester hours)

Three courses from the following list, each of which provides study of a significant modern conflict	9
HIS 311 The War for Independence and the Constitution 1763-1789 (3)	
HIS 409 The French Revolution (3)	
HIS 417 The Civil War and Reconstruction, 1860-1877 (3)	
HIS 475 The First World War (3)	
HIS 476 The Second World War (3)	
HIS 565 The Vietnam War (3)	

*Thematic courses (6 semester hours)*

Two courses from the following list, each of which takes a thematic approach to the larger problems of war and human development.

HIS 322 History of Naval Warfare (3)	6
HIS 423 Diplomacy and Foreign Policy of the United States (3)	
HIS 473 Battles and Behavior I (3)	
HIS 474 Battles and Behavior II (3)	
Total	21

NOTE: Students who complete the military history minor will be considered to have completed the general education requirement in history and need not take the 100-level survey courses. This provision applies to the minor only.

**GEOGRAPHY**

Geography as a social science seeks to understand the impact that people have made upon their environment and to provide an explanation for the spatial distribution of phenomena relating to people.

Offerings in geography include: (1) systematic courses, which examine in some detail spatial characteristics of human society; (2) regional courses, which seek to provide an understanding of characteristics of the world's regions while at the same time introducing basic geographic concepts; and (3) courses in geographic techniques, especially mapping.

**Faculty's Primary Objectives**

1. To contribute courses supporting a major and a minor in geography as well as satisfying part of the general education requirements.
2. To provide a base of support for future professional training, such as a graduate degree in geography or urban and regional planning.
3. To contribute to the undergraduate experience by developing geography as a complement to existing programs in the liberal arts.
4. To support interdisciplinary programs (e.g., International Studies).
5. To contribute to the liberal arts background for students who plan careers in education or business.

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 faculty and from the department chair.

**Bachelor's Degree Programs**

The major in geography, leading to the degree of Bachelor of Arts, consists of 30 semester hours in geography including

1. Elements of Geography (GEO 100) and Physical Geography (GEO 108).
2. at least 15 semester hours at the 300 level or above.

Students majoring in geography are encouraged to take courses in other disciplines related to their area of geographic interest (e.g., courses in economics for those interested in economic geography, courses in anthropology for those interested in cultural geography, etc.).

**Minor in Geography**

A minor in geography consists of 21 semester hours.

1. GEO 100.
2. Of the required 21 semester hours, at least 12 must be in geography at the 200-level or above.
3. Of the required 21 semester hours, at least 9 must be in systematic (topical) geography courses. Systematic courses are those other than GEO 100 and regional courses (GEO 101, 102, 103, 402, 403, 406, 407, 409, 410, 502, 507).

**THE AREA OF CONCENTRATION IN SOCIAL STUDIES FOR EDUCATION STUDENTS**

1. European or U.S. history sequence (HIS 100-101 or HIS 102-103)	6
Art and Method of History (HIS 385)	3
An upper-division non-western history course	3
An upper-division U.S. history course	3
An upper-division course in western (but not U.S.) history	3
One additional upper-division history course	3
2. Three semester hours in each of the following six areas: anthropology, economics, geography, political science, psychology, and sociology.	
<i>Anthropology</i>	3
ANT 100 Cultural Anthropology (3)	
ANT 110 Introduction to Archaeology (3)	
ANT 201 World Cultures (3)	
ANT 202 Introduction to Physical Anthropology (3)	
ANT 230 North American Indians (3)	
ANT 202L Introduction to Physical Anthropology Laboratory (1)	
<i>Economics</i>	3
ECO 200 Principles of Macroeconomics (3)	
ECO 201 Principles of Microeconomics (3)	
<i>Geography</i>	3
GEO 100 Elements of Geography (3)	
GEO 101 World Regional Geography (3)	
<i>Political Science</i>	3
PSC 100 American Politics (3)	
PSC 102 Comparative Politics (3)	
PSC 103 International Politics (3)	
<i>Psychology</i>	3
PSY 311 Biopsychology (or PSY 337 Animal Learning) (3)	
PSY 300 Personality Theory (or PSY 333 Abnormal Psychology) (3)	
PSY 340 Social Psychology (or PSY 344 Industrial/Organizational Psychology) (3)	
<i>Sociology</i>	3
SOC 100 Introduction to Sociology (3)	
SOC 205 Current Social Issues (3)	
3. Students must take 6 additional semester hours in each of three of these six areas: political science, economics, sociology, geography, anthropology, or psychology. At least 3 of these 6 additional hours must be upper-division courses. If psychology is selected, one course must be taken from each of two areas not chosen in 2. above. Only those areas in which a minimum of 9 semester hours has been completed will be designated on the teaching certificate. An overall GPA of 2.50 is required in Social Studies area.	<u>18</u>
Total	57 (58)

A minimum of 6 semester hours of U.S. history is required for the area of concentration in social studies.

Students completing this area of concentration are encouraged to obtain, in addition, a major in history by taking two further 100-level courses (HIS 100-101 or HIS 102-103 or HIS 106-107 or 108-109) and three further upper-division courses.

Students pursuing a social studies/secondary education curriculum should review that portion of the University catalog relating to education and health/physical education. Upon deciding to pursue the teacher education program, students must schedule an appointment with the coordinator of certification and advisement in the College of Education. Students completing the area in social studies are required to complete Teaching Social Studies in the Secondary School (EDU 331).





	JPN 201 Intermediate Japanese I
	JPN 202 Intermediate Japanese II
Latin	
	LAT 101 Elementary Latin I
	LAT 102 Elementary Latin II
	LAT 201 Intermediate Latin I
	LAT 202 Intermediate Latin II
Russian	
	RUS 101 Elementary Russian I
	RUS 102 Elementary Russian II
Spanish	
	SPI 101 Elementary Spanish I
	SPI 102 Elementary Spanish II
	SPI 201 Intermediate Spanish I
	SPI 202 Intermediate Spanish I

## PRE-MAJOR AND SELECTIVE ADMISSION REQUIREMENTS

None

## DEPARTMENT POLICIES

### Foreign Language Requirement for the Major in English

All students majoring in English are required to complete successfully at least 6 semester hours in a single foreign language (Chinese, French, German, Italian, Japanese, Latin, Russian, or Spanish). Students with previous experience in a foreign language must consult the foreign language coordinator to determine the appropriate courses to fulfill this requirement.

### Composition Courses

Before enrolling in composition courses, all students who do not have an English score of 18 or above on the current ACT or a comparable score on the enhanced ACT will take a test to be evaluated by the Faculty of Literature and Language. The writing test is voluntary for all other students.

1. For those judged unprepared for writing at the university level, the sequence of courses is ENG 090 (ENG 110 and/or ENG 111 for international students), ENG 101, and ENG 291.
2. Those whose writing is superior or whose English ACT score is 24 or higher on the current ACT or a comparable score on the enhanced ACT may qualify to enroll in Honors Freshman Composition (ENG 151) by passing the honors placement test or by petitioning the chair of Literature and Language for permission to enroll. Placement tests are available in the Health, Counseling, and Testing Center, University Center 366.
3. All other students will take ENG 101 and ENG 291.

### The Writing Center

The Writing Center (BEP 230) offers free tutorial assistance in writing to all NKU students. Students enrolled in Writing Workshop (ENG 090) attend the center one hour a week for 10 weeks as a part of their coursework. Other students may come to the center for individual help with writing assignments required in their courses. Students using the Center are assisted by instructors from the Center and by trained student tutors.

The center is open from 8:30 a.m. to 4:30 p.m. Monday through Friday, and evenings by appointment.

### Assessment

All graduating seniors with majors in English, French, or Spanish, or with minors with teaching certification in French, Spanish, or German, are required to turn in a portfolio at the time their program is certified for graduation. Guidelines for the portfolio can be found in the English Major and Foreign Language Major brochures. Performance on this assessment tool will have no bearing on a student's GPA or ability to graduate but will

be used by the department for internal evaluation of programs and services. Students who do not turn in a portfolio will not be allowed to graduate.

### Grade Policy

No course in which a grade below a *C* is earned can be used to fulfill the major course requirements in English, French, or Spanish.

## LITERATURE AND LANGUAGE

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.

The major in English with emphasis on literature and writing, though still based on the study of literature, allows students to specialize as well in creative, technical, or business writing.

Through training in research, communication, comprehension, and analysis, the major in English helps prepare students for careers in many professional areas, including business, law, government, public relations, and teaching.

The major in French and the major in Spanish, while requiring both literary and cultural study, allow students to emphasize literature or culture through the choice of electives and interdisciplinary courses.

The major in English, French, or Spanish with secondary certification is offered for students who wish to be certified for teaching on the high school or junior high school level.

In addition to offering its major and minor programs, the Faculty of Literature and Language serves the general student population by teaching how to write effectively and to read critically, by offering elective courses in literature, and by providing a basis for oral and written competence in Chinese, French, German, Italian, Japanese, Russian, and Spanish, as well as reading competence in Latin. The skills developed in writing, language, and literature courses aid students in pursuing careers that involve communication, interpretation, and understanding of human behavior, as well as in developing an appreciation for good writing and literary artistry.

## ENGLISH

### Bachelor's Degree Programs

The degree of Bachelor of Arts is conferred upon students completing the major in English.

The major in English consists of 39 semester hours, including 15 in the core courses, plus completion of one of the two curriculum options and the foreign language requirement.

The major in English with secondary teaching certification consists of 45 semester hours, including 15 in the core courses, plus completion of additional course requirements specified below and the foreign language requirement.

### Core Course Component for all Students Majoring in English

ENG 202-203 ( <i>or</i> ENG 206-207, which may be substituted for ENG 202-203 in Literature and Writing option)	6
ENG 308 <i>or</i> 309 Shakespeare I <i>or</i> II	3
American Literature	6
Total	15

### Literature Option

ENG 206 Western World Literature I	3
ENG 350 Literary Criticism	3
British Literature, 400-level courses (at least 3 semester hours must be in pre-1750 literature, i.e., ENG 401-450)	9
American Literature (pre-1900 literature, i.e., ENG 208 <i>or</i> ENG 351)	3
Electives, 300 level or above (may include ENG 207 Western World Literature II)	6
Total	24

**Literature and Writing Option**

British Literature, 400-level courses (at least 3 semester hours must be in pre-1750 literature, i.e., ENG 401-450)	6
Writing courses, ENG 231 or above (excluding ENG 291, may include an extensive writing project offered under ENG 490 Special Project in Writing, maximum 6 semester hours)	12
Electives, 300 level or above	6
<b>Total</b>	<b>24</b>

**The Major in English with Secondary Certification**

ENG 200 Introduction to Literature ( <i>or</i> equivalent)	3
ENG 381 Introduction to Linguistics or ENG 382 History of the English Language	3
ENG 385, 387 Teaching of English I and II	6
British Literature before 1750 (select from British literature courses, ENG 401-450)	3
British Literature after 1750 (select from British literature courses, ENG 451-499)	3
World Literature (ENG 206-207 <i>or</i> a course in literature of a non-English-speaking country)	3
Electives in English	9
<b>Total</b>	<b>30</b>

Students pursuing a major in English with secondary certification should review that 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 coordinator of certification and advisement in the College of Education and with a secondary education adviser in English in the Department of Literature and Language.

Students seeking certification to teach English must also take Reading in the Junior and Senior High Schools (EDU 530).

**The Area of Concentration for Secondary Certification in English**

To meet secondary certification requirements for an Area of Concentration in English, students will take the courses outlined above for the major in English with secondary certification and also take 12 semester hours distributed among all three of the following: communication, speech, and theatre arts.

**The Minors in English**  
**English**

The minor in English consists of at least 21 semester hours, excluding ENG 101 and ENG 291, as follows:

ENG 202-203 Survey of British Literature I and II	6
Electives in English (at least 9 semester hours must be in 300-400-level courses)	15
<b>Total</b>	<b>21</b>

**English with Secondary Teaching Certification**

The minor in English with secondary teaching certification consists of at least 27 semester hours, excluding ENG 101 and ENG 291, as follows:

ENG 202-203 Survey of British Literature I and II	6
ENG 381 Introduction to Linguistics <i>or</i> ENG 382 History of the English Language	3
ENG 385, 387 Teaching of English I and II	6
Electives in English (at least 6 semester hours must be in 300-400 level courses)	12
<b>Total</b>	<b>27</b>

Students seeking certification to teach English must also take Reading in the Junior and Senior High Schools (EDU 530).

**Creative Writing**

The minor in Creative writing consists of at least 21 semester hours, not including ENG 101 *or* ENG 291, as follows:

ENG 231 Introduction to Creative Writing, ENG 332 Fiction Writing, and ENG 334 Poetry Writing.

Electives chosen from:

ENG 340 Business Writing, ENG 345 Legal Writing, ENG 347 Technical Writing, ENG 355 Women's Autobiographical Writing, ENG 358 Writing in Creative Genres, ENG 331 Persuasive Writing, ENG 431 Screenwriting, ENG 497 Project: Writing, JOU 130 Newswriting I, JOU 340 Feature Writing, JOU 346 Copy Editing, and any other writing courses numbered ENG 300 or above.

**Workplace Writing**

The Workplace Writing minor consists of at least 21 semester hours, not including ENG 101 or ENG 291, as follows:

ENG 348 Workplace Editing, ENG 349 Workplace Writing for the Web, either IFS 105 Introduction to Business Computing or CSC 150 Computer Concepts and Applications or JOU 321 Desktop Publishing, either ENG 340 Business Writing or ENG 347 Technical Writing, and ENG 497 Special Project in Writing: Portfolio development.

Electives chosen from:

ENG 371 Traditional Grammar, ENG 231 Introduction to Creative Writing, ENG 345 Legal Writing, ENG 359 Writing in Workplace Genres, ENG 340 Business Writing or ENG 347 Technical Writing (whichever not taken to fulfill the above requirement), ENG 391 Persuasive Writing, ENG 431 Screenwriting, and ENG 497 Special Projects in Writing.

**English Minor for Business Students**

One 200-level literature course	3
ENG 340 Business Writing	3
ENG 490 Special Project in Writing <i>or</i> ENG 291 Advanced Writing	3
Electives chosen from either four literature courses (300-400 level) or two literature courses (300-400 level) and two foreign language courses	12
<b>Total</b>	<b>21</b>

**FOREIGN LANGUAGES**

The foreign languages offered at NKU are Chinese, French, German, Italian, Japanese, Latin, Russian, and Spanish. Study of foreign languages is undertaken by students who seek a broader knowledge of cultures and literatures other than their own, who wish to prepare for specific careers or professions that demand competence in a foreign language, and who seek to enter graduate or professional schools that require reading ability in a foreign language.

**Bachelor's Degree Programs**

The degree of Bachelor of Arts is conferred upon students completing the major in French (36 semester hours).

*Core Courses in French*

FRE 201-202 Intermediate French I and II	6
FRE 304 French Composition and Conversation	3

*Culture Study*

Select from FRE 250 Business French, FRE 310 French Culture and Society Today, FRE 311 French Cultural History, FRE 480 Topics in French Culture, FRE 520 Readings in French (culture topic) 9

*Literary Study*

Select from FRE 320 Survey of French Literature, FRE 322 French Drama, FRE 323 French Prose Fiction, FRE 481 Topics in French Literature, FRE 520 Readings in French (literary topic) 9

*Interdisciplinary Course Component*

Select from ENG 206 Western World Literature I, ENG 207 Western World Literature II, ENG 314 Modern European Literature in Translation, ENG 381 Introduction to Linguistics, GEO 402 Geography of Europe, HIS 409 The French Revolution, PSC 330 Politics of Europe 3  
*Electives in French above the 202 level* 6  
 Total 36

Select from SPI 250 Business Spanish, SPI 310 Spanish Culture and Civilization, SPI 311 Spanish-American Culture and Civilization, SPI 480 Topics in Spanish and Spanish-American Culture, SPI 520 Readings in Spanish (culture topic) 9

*Literary Study*

Select from SPI 320 Survey of Peninsular Spanish Literature, SPI 321 Survey of Spanish-American Literature, SPI 322 Hispanic Drama, SPI 323 Hispanic Prose Fiction, SPI 481 Topics in Spanish and Spanish-American Literature, SPI 520 Readings in Spanish (literary topic) 9

*Interdisciplinary Course Component*

Select from ENG 206 Western World Literature I, ENG 207 Western World Literature II, ENG 314 Modern European Literature in Translation, ENG 381 Introduction to Linguistics, HIS 325 Early Latin American History, HIS 326 Recent Latin American History, GEO 402 Geography of Europe, GEO 406 Geography of Latin America, PSC 330 Politics of Europe, PSC 335 Latin American Politics, SOC 245 Latin American Societies 3  
*Electives in Spanish above the 202 level* 6  
 Total 36

**Spanish with Teaching Certification**

Students pursuing a major in Spanish with secondary certification (39 semester hours) should review that 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 coordinator of certification and advisement in the College of Education and with the secondary education adviser in foreign languages in the Department of Literature and Language.

In addition to the curriculum above for the major in Spanish, students seeking the bachelor's degree in Spanish with teaching certification must take SPI 350 (Methods of Teaching Spanish).

**The Minors in Foreign Languages**

**French, German, Spanish**

The minor in a modern foreign language consists of 21 semester hours in French, or German, or Spanish, distributed as follows:

<i>Intermediate-level language study</i>	
FRE 201-202; or GER 201-202; or SPI 201-202	6
<i>Composition and conversation course</i>	
FRE 304; or GER 304; or SPI 304	3
<i>Culture study</i>	
FRE 250, 310, 311, 480; or GER 250, 310, 311, 480; or SPI 250, 310, 311, 480	3
<i>Literary study</i>	
FRE 320, 322, 323, 481; or GER 320, 322, 323, 481; or SPI 320, 321, 322, 323, 481	3
<i>Electives in culture or literary study</i>	
In addition to culture and literature courses listed above, may include FRE 280; or GER 280; or SPI 280	6
Total	21

**French, German, or Spanish with Teaching Certification**

Two intermediate courses (201-202)	6
Composition and conversation course (304)	3
One course focusing on culture study (FRE 250, 310, 311, 480; GER 250, 310, 311, 480; SPI 250, 310, 311, 480)	3
One course focusing on literary study (FRE 320, 322, 323, 481; GER 320, 322, 323, 481; SPI 320, 321, 322, 323, 481)	3
One teaching methods course (FRE 350; GER 350; SPI 350)	3
Two elective courses above the 202 level	6
Total	24

The faculty will determine appropriate placement and awarding of credit for students with previous language experience.



**French with Teaching Certification**

Students pursuing a major in French with secondary certification (39 semester hours) should review that 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 coordinator of certification and advisement in the College of Education and with the secondary education adviser in foreign languages in the Department of Literature and Language.

In addition to the curriculum above for the major in French, students seeking the bachelor's degree in French with teaching certification must take FRE 350 (Methods of Teaching French).

**Spanish**

The degree of Bachelor of Arts is conferred upon students completing the major in Spanish (36 semester hours).

*Core Courses in Spanish*

SPI 201-202 Intermediate Spanish I and II 6  
 SPI 304 Spanish Composition and Conversation 3

*Culture Study*

# Mathematics and Computer Science Department

## FACULTY

Kirsten Fleming, *chair*

David B. Agard, Mary Baggett, Chris Christensen, Daniel J. Curtin, Frank H. Dietrich II, Gina M. Foletta, Richard K. Fox, Charles E. Frank, Donald H. Galli, James W. Hauser, Thomas J. Kearns, Kevin G. Kirby, Michael A. Klembara, Donald K. Krug, Hee-Jeong Lim, Andrew E. Long, Gail Mackin, Philip W. McCartney, Carl E. Miller, Gary L. Newell, Stephen E. Newman, John S. Rankin, David R. Schenck, Philip H. Schmidt, Linda J. Sheffield, Gail W. Wells, Steven V. Wilkinson

## CONTACTING THE DEPARTMENT

The Department of Mathematics and Computer Science is located in AST 305 and may be reached during business hours by phone at 859-572-5377. Visit the department's website at <http://www.nku.edu/~math>.

Kirsten Fleming, *chair*

[math@nku.edu](mailto:math@nku.edu)

## PROGRAMS OFFERED

### Bachelor's Majors

Mathematics  
Computer Science  
Computer Information Technology

### Minors

Mathematics  
Computer Science

## Master of Science in Computer Science

## GENERAL EDUCATION COURSES OFFERED

MAT 110 Introductory Probability  
MAT 111 Introductory Linear Mathematics  
MAT 112 Calculus for Business Applications  
MAT 113 Introduction to Probability and Statistics  
MAT 115 Mathematics for Liberal Arts  
MAT 118 Technical Mathematics  
MAT 120 Calculus I  
MAT 121 Calculus IA  
MAT 122 Calculus IB  
MAT 205 Introduction to Statistical Methods  
MAT 212 Statistics for Business Applications

## PRE-MAJOR AND SELECTIVE ADMISSION REQUIREMENTS

Students who plan to undertake studies in a mathematical or physical science, engineering, or any program requiring calculus (MAT 120) will need a background in mathematics equivalent to four years of high school work: Algebra I and II, geometry, trigonometry, and other fourth-year topics. Mathematics courses for other programs require at least Algebra I and Algebra II. Moreover, high school mathematics grades less than *B* do not normally indicate mastery adequate for college mathematics courses; as a result, high school courses for which a grade lower than *B* was received should not be considered part of the student's background.

Deficiencies in a student's mathematical background, resulting either from no prior acquaintance with certain subjects or from insufficient mastery of them, can be remedied in MAH 095, 097, 099, and MAT 109 and 119. MAH 095 and MAH 099 correspond to Algebra I and II respectively. MAH 097 corresponds to high school geometry. MAT 109 will prepare students for MAT 112 and 119. MAT 119 is a pre-calculus course.

Students should select the appropriate first mathematics course in consultation with an adviser. Placement testing to aid in the decision can be arranged by the Testing and Disability Services. Students must be careful to check the prerequisites for MAT courses. In particular, a pre-requisite of "MAH 099 or placement" means that mastery of two years of high school algebra will be assumed.

The Faculty of Mathematics and Computer Science offers courses in traditional mathematics, computer science, statistics, and operations research. Students who wish to pursue a program of study in any of these areas should consult a member of the faculty. Students interested in computing should also be aware of the Information Systems programs in the College of Business.

## Transfer Students

Transfer students must take at least 6 semester hours toward a minor at NKU.

## Combination of Majors or Minors

A double major in mathematics and computer science consists of satisfying the degree requirements for each major plus 6 additional semester hours chosen from courses applicable to either major.

A student majoring in computer science may count only courses with a MAT prefix toward a minor in mathematics.

A student majoring in mathematics may count only CSC courses toward a minor in computer science.

## MATHEMATICS

### Bachelor's Degree Programs

A major in mathematics, leading to the degree of Bachelor of Science, consists of MAT 120, 220, 224, 225, 250, 320, CSC 260, 260L, and 12 additional semester hours of mathematics or computer science courses numbered above MAT 225, excluding MAT 305. (NOTE: students pursuing teacher certification in secondary mathematics may include MAT 305). The 12 additional semester hours may not include more than 3 with a CSC prefix and must include one of the following sets of courses:

1. Three 400-level mathematics courses
2. MAT 360, 380, and 385
3. Three of MAT 325, 330, 360, and 430
4. Three of MAT 314, and one of 315, 340, and 341
5. MAT 300, MAT 340, and either 310 or 410

A grade of *D* is not applicable to the major. Programs of study leading to graduate work in mathematics, to secondary education certification, or to employment in business, industry, or government can be chosen in consultation with the student's adviser. The following tracks are suggested:

1. For students planning graduate work in mathematics: two courses from MAT 410, 420, and 430; MAT 415 or 421; and courses chosen from MAT 310, 325, 340, and 341.
2. For students with a minor or a second major in computer science: MAT 325, 340, 341, 360, 380, and 385.
3. For students interested in engineering or physical science: MAT 325, 330, 430, and courses chosen from 340, 341, and 360.
4. For students interested in probability and statistics: MAT 312, 314, 315, 340, 341, and 375.
5. For students in secondary education or students wishing to sample mathematics: MAT 300, either 310 or 410, and one course chosen from any additional mathematics course numbered above 300 (excluding MAT 305, 394, 399, 494, 499) or CSC 262 (NOTE: students pursuing teacher certification in secondary mathematics may include MAT 305).
6. For students interested in careers as actuaries: MAT 250, 314, 340, 341, and 360 and a minor in finance.

Students majoring in mathematics are strongly urged to obtain a minor (or a second major) in a related area. Such a minor enhances career opportunities and furthers understanding of the application of mathematics.

### The Minor in Mathematics

A minor in mathematics consists of 21 semester hours of mathematics and computer science courses (110 or above) including at least 15 semester hours with the MAT prefix. A student majoring in computer science may count only courses with a MAT prefix toward a minor in mathematics. A grade-point average of at least 2.00 in all mathematics and computer science courses is required. Students interested in a mathematics minor should contact a member of the faculty. The following courses are suggested:

1. For students majoring in business or in behavioral or social sciences: MAT 110, 111, 205 or 212, and 314 and courses chosen from 112, 119, 120, 213, 312, 315, 375; CSC 150, 170, and 260. For students with a good mathematics background, a better program would be MAT 120, 220, 225, 250, 340, 341; CSC 260.
2. For students majoring in a physical science: MAT 120, 220, 225, 325, and CSC 260 and courses chosen from MAT 250, 320, 330, 340, 341, 360, and 430.
3. For students majoring in biological sciences: MAT 120, 220, and 325 and courses chosen from 119, 205, 250, 312, 314, 315, 340, 341, 375; CSC 150, 170, and 260.

Transfer students must take at least 6 semester hours toward the minor at NKU.

### Teacher Certification in Mathematics

Students pursuing a mathematics/secondary education curriculum should review that part 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 coordinator of certification and advisement in the College of Education.

Certification to teach mathematics at the secondary level requires the following courses for certification of a major in mathematics:

1. MAT 120, 220, 224, 225, 250, 300, 320, and 340; CSC 260, 260L.
2. Either MAT 310 or 410.
3. Any additional mathematics course numbered above 300 (excluding MAT 394, 399, 494, 499) or CSC 262.

Certification to teach mathematics in grades 5-9 requires either 1 or 2 below.

1. The following courses:
  - a. MAT 140 and 141.
  - b. MAT 240.
  - c. One of CSC 150, 160, 170, or both 260 and 260L.
  - d. MAT 110 and 205.
  - e. MAT 120 or two of 109, 111, 112, 115, 119, 121, 122 (but not both 111 and 115).
2. A secondary-level mathematics major and both of MAT 140 and 240.

An area of academic emphasis in mathematics for certification in grades P-5 requires the following courses:

1. MAT 140 and 141.
2. MAT 240.
3. One of CSC 150, 160, 170, or both of 260 and 260L.
4. MAT 110 and 205.
5. One of MAT 109, 112, 115 119, 120, 121, 122.

Any substitutions in these programs must be approved by the mathematics and computer science chair.

### COMPUTER SCIENCE

Computer science is an applied science that investigates the structure and transformation of information. Computer scientists develop algo-

rithms to solve problems in a wide range of areas, from network security to computer graphics and artificial intelligence. A key application of computer science is in software engineering, which is concerned with the design and analysis of complex real-world systems and their representation in terms of computer code. Software development plays a role in many computer science courses, although the focus of the major extends far beyond programming. The study of computer science cultivates a mix of creative talent and technological expertise. While some NKU computer science majors pursue advanced degrees after graduation, most are employed in positions such as software analyst, systems architect, or software engineer.

### Bachelor's Degree Program

A major in computer science, leading to the degree of Bachelor of Science, requires the following courses:

1. MAT 120, 222, (or 220), 250, 385; CSC 260, 260L, 262, 362, 364, 402, 440, 460, and 485.
2. Two 400-level CSC courses not included in requirement 1. One 300-level or 400-level CSC course not included in requirement 1. MAT 360 may also count as one of these three courses.

A grade of *D* is not applicable to the major. Students majoring in computer science are urged to obtain a minor (or a second major) in a related area. Such a minor enhances career opportunities and furthers appreciation of computer applications. Students interested in graduate study in computer science are advised to take a mathematics minor including MAT 224, 225, and 360.

### The Minor in Computer Science

A minor in computer science consists of 22 semester hours of mathematics and computer science courses (MAT 119 or higher) including CSC 260, 260L, 262, either 362 or 364, and at least 6 more hours with the CSC prefix. A student majoring in mathematics may count only courses with a CSC prefix toward a minor in computer science. A grade-point average of at least 2.00 in all mathematics and computer science courses is required. Transfer students must take at least 6 semester hours toward a minor at NKU.

### Endorsement for Teachers of Computer Science

Endorsement to teach computer science at the secondary level requires

1. Prerequisites for admission: Undergraduate students must have been admitted to the secondary education major. Post-bachelor students must have secondary certification.
2. Required courses:
  - a. MAT 112, 120, or 121.
  - b. MAT 205, 212, or 250.
  - c. CSC 150.
  - d. All of CSC 260, 260L, 262, 362, 364

Any substitution in this program must be approved by the mathematics and computer science chair.

### COMPUTER INFORMATION TECHNOLOGY

#### Bachelor's Degree Program

The computer information technology major is designed to provide students with a broad background in information technology as found in a wide spectrum of organizations, including government, health care, business, and education. The "hands-on" curriculum explores a variety of areas that fall outside the realm of traditional academic computing disciplines in order to prepare a new breed of technology experts who can support, troubleshoot, maintain, repair, and supply training for the growing general application of software and hardware technologies. Graduates of this program will be prepared for employment in a variety of positions dealing with the support and administration of hardware and software technologies used in networks, systems, security and the Web.

A major in computer information technology, leading to the degree of Bachelor of Science, requires the following courses:

1. *Support Courses*  
MAT 185, 205, or 212; PHI 210; ENG 347
2. *Core Courses*  
CSC 150, 260, 260L, 262; IF 110, 300; IET 161, 310, 340; CIT 140, 370, 496.

3. *Specialization Tracks*

Students will select one of the following three specialization tracks to complete their degree requirements.

- a. *Hardware Technology Track*

The Hardware Technology track is intended to allow students to obtain knowledge and skills in the areas of system and network hardware. The track requires the following courses:

IET 345, 367, 448; CSC 362; one CIT 300- or 400-level elective.

- b. *Web Development Technology Track*

The Web Development Technology track is designed to produce graduates who have a broad yet detailed understanding of issues pertaining to the development of effective, interactive web-based environments. The track requires the following courses:

ART 221; IET 342; CSC 301, 350; one CIT 300- or 400-level elective.

- c. *Network and System Administration and Security*

The Network and System Administration and Security track is designed to provide the student with a solid understanding of the software; hardware and applications involved in the administration of networks, systems and computer security. The track requires the following courses:

CSC 350, 382; IET 345, 448; CIT 470.

A grade of *D* is not applicable to the major.

Students majoring in computer information technology are urged to obtain a minor in a related academic discipline (e.g. computer science or computer electronics engineering technology) but may not declare a minor in Business. For computer information technology majors, only CSC courses can count toward a minor in computer science; only MAT courses can count toward a minor in mathematics.

## Music Department

### FACULTY

Paul Kreider, *chair*

Diana R. Belland, James Bunte, David Cole, Richard Cowan, Eric DeForest, Betty Douglas, David L. Dunevant, W. Jonathan Gresham, Gayle Sheard Grout, Carolyn Z. Hagner, Gary Johnston, Brant Karrick, Nina Key, Rebecca Abram Kreider, Scott Lang, Randy K. Pennington, Ralph Russell, Kurt Sander, Toni Sheffer, Charles K. Wells

### Corbett String Quartet

Javier Arias-Flores, Marcia Littlely de Arias, Michael Klotz, Misha Vitensen

### Neyer Professor of Music

Sergei Polusmiak

### CONTACTING THE DEPARTMENT OF MUSIC

The Department of Music located in FA 253 may be reached during business hours by phone at 859-572-6399. Interested persons are invited to browse the department's website at <http://music.nku.edu>.

Paul Kreider, *chair*

[kreiderp@nku.edu](mailto:kreiderp@nku.edu)

### PROGRAMS OFFERED

#### Bachelor of Music in Performance

Instrumental	Piano Pedagogy Emphasis
Keyboard	Voice
Piano Accompanying Emphasis	

#### Bachelor of Music in Music Education

Choral/Vocal  
Instrumental  
Piano/Choral

#### Bachelor of Arts

#### Certificate

Piano Pedagogy

### GENERAL EDUCATION COURSES OFFERED

MUS 100 Music Appreciation  
MUS 107 Survey of African American Music

MUS 108 History of Rock and Roll  
MUS 109 History of American Popular Music  
MUS 110 Appreciation of Jazz  
MUS 230 History of Music: Antiquity through Baroque  
MUS 231 History of Music: Classical to the Present

### PRE-MAJOR AND SELECTIVE ADMISSION REQUIREMENTS

#### Placement Requirements for All Music Degrees

Freshmen and transfer students are required to take examinations in music theory, ear training, piano, and applied performance for placement purposes. Transfer students must also take a music history examination if deemed appropriate by the department chair.

#### Admission Requirements for All Music Degrees

Freshmen at Northern Kentucky University are admitted to the Department of Music simply as students majoring in music; that is, they are not admitted initially as majoring in performance, music education, composition, etc. While it is entirely appropriate for freshmen to have aspirations, hopes, or preferences for one major or another, admission to a specialization is deferred until the following requirements are in place:

#### Time Frame

1. Students may petition to major during the sophomore year.
2. Transfer students have a general deadline of 15 December of the entering year to petition.
3. Transfer students planning to enter with junior standing or above must be admitted to a major prior to admittance.

#### Recommendations

1. The student may be admitted to the major unconditionally.
2. The student may be rejected from the major with the provision that he/she may reapply upon demonstration of improvement in designated areas.
3. The student may be rejected unconditionally.

To apply for admission to any music degree program, the student must have

1. earned a minimum of 24 semester hours;
2. earned a minimum grade-point average of 2.50 in music courses;
3. completed Music Theory I and II with a grade of *C* or better in each course;
4. completed Aural Skills I and II with a grade of *C* or better in each course;

5. completed Class Piano I and II or equivalent with a grade of *C* or better in each course;
6. passed the Freshman Proficiency Jury in applied music.

To receive admission to any music degree program the student must have

1. earned a minimum of 48 semester hours;
2. earned a minimum grade-point average of 2.50 in music courses;
3. completed Music Theory III and IV with a grade of *C* or better in each course;
4. completed Aural Skills III and IV with a grade of *C* or better in each course;
5. completed Class Piano III and IV or (or MUS 290) with a grade of *C* or better in each course;
6. passed the Sophomore Comprehensive in applied music;
7. received a written recommendation from applied music instructor;
8. received approval from an interview with a faculty panel.

## DEPARTMENT POLICIES

1. Students who have been unsuccessful in their petition for a major are permitted to petition again for a different major or to petition again for the same major at a later time.
2. Students who have been denied a major or have not completed the requirements are permitted to register for basic-studies courses in music and/or general education but not for courses in the major specialization.

## Academic Standards

Candidates for degrees in music are required to receive a grade of *C* or better in all music courses applied toward certification of 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 a jury before a panel of faculty members at the end of each semester. At this time their grade for that semester and the approval or disapproval to register for the next higher level of study will be decided.

All freshmen students majoring in music will be admitted as provisional majors. At the end of the first year (two semesters of applied study) students must pass a Freshman Proficiency Jury as part of the admission process to major declaration. At the end of four semesters of applied study, students must pass the Sophomore Comprehensive to successfully enter a major. (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 must petition to retake the examination. The Sophomore Comprehensive 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, and string instruments, organ, piano, voice, classical guitar, harp, and harpsichord. Private lessons are provided weekly for one-half or for one hour. Students studying privately may earn 1 or 2 semester hours. The number of semester hours is determined by the length of the lesson (1/2 hour = 1 semester hour; 1 hour = 2 semester hours). Students will be assigned to applied-lesson instructors by the music chair or a designee. Request for a specific instructor will be honored when possible.

Fees:

Applied music and composition:  
1/2 hr. lesson per week \$150.00

1 hr. lesson per week \$300.00

## Performance Organizations

Membership in performance organizations is open to all qualified NKU students. Ensembles include Northern Chorale, Chamber Choir, Vocal Jazz, University Concert Band, Symphonic Winds, Brass Choir, Jazz Ensemble, Pep Band, University Community Orchestra, Chamber Orchestra, Percussion Ensemble and Steel Drum Bank. Opportunities for performance in chamber ensembles and Opera Workshop are also available. Interested students should call the music office to arrange an audition.

Ensemble requirements pertaining to curricula for music majors are satisfied only by Symphonic Winds, University Concert Band, Northern Chorale, Chamber Choir, Chamber Orchestra, and University/Community Orchestra.

## Recital Attendance

All students majoring in music, unless excused by the chair, must register each semester for Recital Review (MUS 196). Requirements for this course are satisfied by certified attendance at recitals approved and required by the course syllabus; grading is pass/fail. Students must pass this course each semester in which they are full-time students prior to graduation. MUS 196 may be waived during a semester of a student teaching placement.

## Recital Performance

All students majoring in music must perform on weekly recital programs as directed by their applied music instructor. Students majoring in music performance must perform two major recitals, a junior (half) recital and a senior (full) recital. Students majoring in music education perform a junior recital prior to graduation. Students preparing junior and senior recitals must pass a recital jury audition at least one month prior to public performance. Guidelines for the preparation and scheduling of recitals are available from the music office.

## Piano Proficiency

Students found to be deficient through the placement test must enroll in group piano course or private applied piano instruction. Enrollment in these courses will continue until a student is able to pass the proficiency test (MUS 290). Students are expected to take the proficiency examination no later than the end of their sophomore year. Additional piano study beyond that required for the proficiency is highly recommended for music majors in all degree programs.

## Scholarships

Music scholarships are awarded to students who have made outstanding accomplishments or evidence significant potential. Please 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 adviser from the music faculty. Students are urged to work in consultation with the adviser in order to insure 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.

## DEPARTMENT'S MISSION

The mission of the Department of Music is to provide quality instruction to students choosing to pursue a major or minor in music. For



those in other disciplines, the department offers courses and performing opportunities that will enhance one's cultural development. In addition, through a variety of musical programs and workshops, the department contributes to the cultural development of the University and the community-at-large.

### FACULTY'S PRIMARY OBJECTIVES

1. To provide quality instruction and training necessary to enable students to achieve artistic skill and understanding.
2. To strive for excellence in performance.
3. To prepare music students for their roles as professionals in the field of music.
4. To provide the academic and performance background necessary for admission to graduate school.
5. To enhance the cultural climate of the academic community, northern Kentucky, and the Commonwealth through the presentation of public music performance and through special instructional programs.
6. To help students acquire an understanding and appreciation of the interaction of music with the various humanistic disciplines.
7. To maintain faculty excellence by continued professional activity and involvement.
8. To provide diverse performing opportunities.

### BACHELOR'S DEGREE PROGRAMS

Programs leading to the following degrees are offered: Bachelor of Music and Bachelor of Arts.

#### Bachelor of Music in Performance

##### *Instrumental*

MUS 122, 123, 222, 223 Theory I, II, III, IV	12
MUS 124, 125, 224, 225 Aural Skills I, II, III, IV	4
MUS 290 Piano Proficiency	0
MUS 130 Introduction to Music Literature	2
MUS 196 Recital Review	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 325 Form and Analysis	3
MUS 337 History of Music III: Mid 19th and 20th Centuries	3
MUS 352 Conducting I	2
MUS 397 Junior Recital	0
MUS 399 Independent Study: Repertoire/Pedagogy	3
MUS 497 Senior Recital	
Applied major instrument (one contact hour per lesson)	16
Large Ensembles	8
Small Ensembles	6
Electives in music	<u>12</u>
Total	77

##### *Keyboard*

MUS 122, 123, 222, 223 Theory I, II, III, IV	12
MUS 124, 125, 224, 225 Aural Skills I, II, III, IV	4
MUS 290 Piano Proficiency	0
MUS 130 Introduction to Music Literature	2
MUS 196 Recital Review	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 311 Piano Accompanying and Chamber Music	4
MUS 325 Form and Analysis	3
MUS 331 Keyboard Literature I	2
MUS 337 History of Music III: Mid 19th and 20th Centuries	3
MUS 352 Conducting I	2
MUS 397 Junior Recital	0
MUS 447 Seminar in Piano Pedagogy	3
MUS 497 Senior Recital	0
Applied Piano (one contact hour per lesson)	16

Ensembles (must have advisor's approval)	4
Electives in music	<u>12</u>
Total	73

##### *Piano Accompanying Emphasis*

MUS 105, 305 Ensemble Accompanying (one to three semester hours per semester depending upon ensemble assignment)	13
MUS 122, 123, 222, 223 Theory I, II, III, IV	12
MUS 124, 125, 224, 225 Aural Skills I, II, III, IV	4
MUS 130 Introduction to Music Literature	2
MUS 196 Recital Review	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 311 Piano Accompanying and Chamber Music	4
MUS 325 Form and Analysis	3
MUS 337 History of Music III: Mid 19th and 20th Centuries	3
MUS 352 Conducting I	2
MUS 397 Junior Recital	0
MUS 497 Senior Recital	0
Applied Piano (one contact hour per lesson)	16
Applied piano accompanying (one half-hour private instruction weekly)	8
Electives in music	<u>9</u>
Total	82

##### *Piano Pedagogy Emphasis*

MUS 122, 123, 222, 223, Theory I, II, III, IV	12
MUS 124, 125, 224, 225, Aural Skills I, II, III, IV	4
MUS 130 Introduction to Music Literature	2
MUS 196 Recital Review	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 325 Form and Analysis	3
MUS 331, 332 Keyboard Literature I, II	4
MUS 337 History of Music III: Mid 19th and 20th Centuries	3
MUS 345, 346 Keyboard Skills I, II	2
MUS 352 Conducting I	2
Applied Piano (MUS 185, 285, 385, 485)	16
Ensembles	7
MUS 311 Piano Accompanying and Chamber Music	2
MUS 348, 349, 448, 449 Piano Pedagogy I, II, III, IV	12
MUS 397 Junior Recital	0
MUS 497 Senior Recital	0
Electives in music	<u>6</u>
Total	79

##### *Voice*

Two years of foreign language, selected in consultation with an applied voice instructor, are required. One year may be applied toward the general education requirement in humanities/fine arts.

MUS 301 or MUS 302 Northern Chorale or Chamber Choir	6
MUS 304 Opera Workshop (or MUS 310 Chamber Music Ensembles [Vocal])	3
MUS 122, 123, 222, 223 Theory I, II, III, IV	12
MUS 124, 125, 224, 225 Aural Skills I, II, III, IV	4
MUS 130 Introduction to Music Literature	2
MUS 144-145 Lyric Diction I and II	6
MUS 196 Recital Review	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 325 Form and Analysis	3
MUS 290 Piano Proficiency	0
MUS 333 Vocal Literature	3
MUS 337 History of Music III: Mid 19th and 20th Centuries	3
MUS 352 Conducting I	2
MUS 397 Junior Recital	0
MUS 446 Seminar in Vocal Pedagogy	3
MUS 497 Senior Recital	0
Applied Voice (one contact hour per lesson)	16
Applied piano (4 semesters)	4

Electives in music	6
Total	79

### Bachelor of Music in Music Education

Students pursuing a Bachelor of Music with teacher certification should review that portion of the University catalog relating to education and health/physical education (see listing under College of Education). Upon approval to pursue the music teacher education program, students must schedule an appointment with the coordinator of certification and advisement in the College of Education. Music students will follow the guidelines for certification listed under Secondary Education 8–12.

Candidates for certification must meet 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 certification requirements of that state. Each student should work in close consultation with an adviser in order to meet all non-music requirements.

#### Choral/Vocal

MUS 122, 123, 222, 223 Theory I, II, III, IV	12
MUS 124, 125, 224, 225 Aural Skills I, II, III, IV	4
MUS 130 Introduction to Music Literature	2
MUS 144 Lyric Diction I	3
MUS 196 Recital Review	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 309 Introduction to Music Education	3
MUS 312 Computer Applications for Musicians	1
MUS 325 Form and Analysis	3
MUS 337 History of Music III: Mid 19th and 20th Centuries	3
MUS 340 General and Vocal Music in the Elementary School	3
MUS 342 General and Choral Music in the Secondary School	3
MUS 352 Conducting I	2
MUS 353 Conducting II	3
MUS 397 Junior Recital	0
Applied Voice (two semesters of 300 level or above)	14
Applied methods and materials (MUS 146)	1
Elective in music history or literature (300 level or above, choral or vocal literature recommended).	3
Ensembles	7
Total	73

#### Instrumental

MUS 122, 123, 222, 223, Theory I, II, III, IV	12
MUS 124, 125, 224, 225, Aural Skills I, II, III, IV	4
MUS 130 Introduction to Music Literature	2
MUS 196 Recital Review	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 309 Introduction to Music Education	3
MUS 312 Computer Applications for Musicians	1
MUS 325 Form and Analysis	3
MUS 337 History of Music III: Mid 19th and 20th Centuries	3
MUS 340 General and Vocal Music in the Elementary School	3
MUS 341 Instrumental Music in the Public Schools	3
MUS 343 Marching Band Methods	3
MUS 352 Conducting I	2
MUS 353 Conducting II	3
MUS 397 Junior Recital	0
Applied music (major instrument; two semesters of 300 level or above)	14
Applied methods and materials (MUS 146, 241, 243, 245, 247)	5
Large Ensembles	7
Small Ensembles	6
Total	80

#### Piano/Choral

MUS 122, 123, 222, 223 Theory I, II, III, IV	12
MUS 124, 125, 224, 225 Aural Skills I, II, III, IV	4
MUS 130 Introduction to Music Literature	2

MUS 144 Lyric Diction I	3
MUS 196 Recital Review	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 309 Introduction to Music Education	3
MUS 312 Computer Applications for Musicians	1
MUS 311 Piano Accompanying and Chamber Music	4
MUS 325 Form and Analysis	3
MUS 337 History of Music III: Mid 19th and 20th Centuries	3
MUS 340 General and Vocal Music in the Elementary School	3
MUS 342 General and Choral Music in the Secondary School	3
MUS 345 Keyboard Skills I	1
MUS 346 Keyboard Skills II	1
MUS 352 Conducting I	2
MUS 353 Conducting II	3
MUS 397 Junior Recital	0
Applied Piano (two semesters of 300 level or above)	14
Applied methods and materials (MUS 146)	1
Secondary applied voice (MUS 187, 287)	4
Elective in music literature or piano pedagogy (300 level or above)	3
Ensembles	7
Total	83

### Bachelor of Arts

MUS 122, 123, 222, 223 Theory I, II, III, IV	2
MUS 124, 125, 224, 225 Aural Skills I, II, III, IV	4
MUS 130 Introduction to Music Literature	2
MUS 196 Recital Review	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 325 Form and Analysis	3
MUS 337 History of Music III: Mid 19th and 20th Centuries	3
Applied music (major instrument; must pass Sophomore Comprehensive)	8
Electives in music (must have advisor's approval)	12
Ensembles	6
Total	56

### The Minor in Music

MUS 122, 123 Theory I and II	6
MUS 124, 125 Aural Skills I and II	2
Electives in music history or literature	6
Two semesters of applied music	2
Two semesters of ensembles	2
Electives in music (must have adviser's approval)	8
Total	26

### Certificate in Piano Pedagogy

The Certificate in Piano Pedagogy is a 34-semester-hour certificate. It addresses the need of musicians in the northern Kentucky/greater Cincinnati metropolitan community who are currently involved in teaching piano and who wish to enhance and improve their skills. The purpose of the program is (1) to train pianists who desire further training in piano and related skills but who lack the means for completing a degree in piano and (2) to provide training in skills of piano teaching to those who hold degrees in piano or other areas and who wish to raise the quality of their work to a more effective and professional level.

Semester hours earned on the certificate may be applied toward a music degree.

MUS 122, 123 Theory I, II	6
MUS 124, 125 Aural Skills I, II	2
MUS 311 Piano Accompanying and Chamber Music	2
MUS 331 or 332 Keyboard Literature I or II	2
MUS 345, 346 Keyboard Skills I, II	2
MUS 348, 349, 448, 449 Piano Pedagogy I-IV	12
Applied piano (one contact hour per week for four semesters)	8
Total	34

# Physics and Geology Department

## FACULTY

Charles E. Hawkins, *chair*  
 C. Dale Elifrits, *director of pre-engineering and outreach*  
 John D. Rockaway, *director of geology*  
 Janet Bertog, Samuel Boateng, Wayne J. Bresser, Sharmanthie Fernando,  
 John E. Filaseta, Raymond C. McNeil, Scott L. Nutter, Karl J. Vogler

## CONTACTING THE DEPARTMENT

The Department of Physics and Geology is located in SC 204H and may be reached during business hours by phone at 859-572-5309. Visit the department's website at <http://physics.nku.edu/>.

Dr. Charles E. Hawkins, *chair*      hawkins@nku.edu

## PROGRAMS OFFERED

### Majors

Geology  
 Physics  
 Dual-Degree Program (Pre-Engineering)  
 Teacher Education in Earth and Space Science  
 Teacher Education in Physics

### Minors

Geology  
 Physics

## GENERAL EDUCATION COURSES OFFERED

AST 110 The Solar System  
 AST 115 Stars, Galaxies, and Cosmology  
 GLY 110 The Face of the Earth with Lab  
 GLY 120 This Dangerous Earth  
 GLY 220 History of the Earth  
 GLY 230 geology of the National Parks  
 GLY 240 Geology of Natural Resources  
 PHY 110 Introduction to Physics with Lab  
 PHY 211 General Physics with Laboratory I  
 PHY 213 General Physics with Laboratory II  
 PHY 220 University Physics with Laboratory I  
 PHY 222 University Physics with Laboratory II

## PRE-MAJOR AND SELECTIVE ADMISSION REQUIREMENTS

None

## ASTRONOMY, GEOLOGY, AND PHYSICS

Astronomy, geology, and physics are the disciplines represented in the Department of Physics and Geology. The bachelor's degree may be earned with a major or a minor in geology or physics. Selected graduate courses, intended primarily for K-12 teachers, are also offered in astronomy, geology, and physics. Courses that satisfy the general education requirement in natural sciences are offered in all these disciplines.

## FACULTY'S PRIMARY OBJECTIVES

The faculty of Physics and Geology emphasizes strong classroom teaching and individual attention in the laboratory. Goals are as follows:

1. To offer a rigorous major for students planning careers in geology, physics, or related fields.
2. To increase the scientific literacy of those students not planning careers in astronomy, geology, or physics.
3. To provide undergraduate and graduate education for the certification of teachers.
4. To provide independent study opportunities for interested students.

5. To meet the needs of teachers, biologists, and others requiring knowledge of astronomy, geology, and physics.
6. To offer pre-professional study for students interested in engineering.

## ASTRONOMY

The study of astronomy is an excellent means with which to present scientific procedure to non-science students. As one of the oldest sciences, astronomy has a rich history; yet modern astronomy carries with it the excitement of discovery and confrontation with the unknown. As a discipline, astronomy relies heavily on the contributions of other sciences, especially the physical sciences. Although neither a major nor a minor is currently offered in astronomy, courses in astronomy may be used to satisfy the general education requirement in natural sciences. In addition, astronomy courses numbered 301 and above may be applied toward the degree of Bachelor of Arts with a major in physics or toward a minor in physics.

## GEOLOGY

### Bachelor's Degree Programs

The degree of Bachelor of Science with a major in geology is designed to give students a strong background in the geological sciences prior to beginning a career in one of the geology-related professions or continuing on to graduate work. The degree of Bachelor of Arts with a major in geology is most appropriate for persons seeking dual majors who wish to have a background in geology to complement another major.

### Bachelor of Science

The Bachelor of Science in geology requires 40 semester hours of geology courses; a grade of *C* or higher must be earned in all courses counting toward the major. Additional requirements for the major include CHE 120-120L, 121-121L, PHY 211, 213, and MAT 121, 122. Students interested in the application of geology in environmental studies may take courses emphasizing hydrogeology. 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 towards professional registration.

The courses necessary for a major in Geology are as follows:

#### A. Required Courses

Geology 110 The Face of the Earth with Laboratory  
 Geology 220 History of the Earth  
 Geology 303 Mineralogy with Laboratory  
 Geology 315 Structural Geology with Laboratory  
 Geology 330 Geomorphology  
 Geology 394 Seminar  
 Geology 405 Petrology with laboratory  
 Geology 420 Stratigraphy with Laboratory  
 Geology 450 Hydrogeology

#### B. One course from the following three courses

Geology 120 This Dangerous Earth  
 Geology 230 Geology of the National Parks  
 Geology 240 Geology of Natural Resources

#### C. Two courses from the following six courses

Geology 405 Optical Mineralogy with Laboratory  
 Geology 340 Environmental Geoscience  
 Geology 402 Invertebrate Paleontology with Laboratory  
 Geology 455 Ground Water Resources  
 Geology 416 Geologic Field Methods  
 Geology 496 Externship

## Bachelor of Arts

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

### The Minor in Geology

A minor in geology consists of 21 hours, of which at least 12 must be at the 300 level or above. A minor in geology, emphasizing courses in environmental geology and hydrogeology is particularly appropriate for students majoring in Environmental Science.

## PHYSICS

### Bachelor's Degree Programs

The degree of Bachelor of Science with a major 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 of Bachelor of Arts, 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.

### Bachelor of Science

The Bachelor of Science in physics requires 37 semester hours in physics (excluding PHY 110, 211, and 213). The BS candidate must successfully complete

PHY 220 University Physics with Laboratory I  
 PHY 222 University Physics with Laboratory I  
 PHY 308 Modern Physics Ideas with Laboratory  
 PHY 310 Dynamics  
 PHY 360 Thermal Physics  
 PHY 361 Modern Physics  
 PHY 410 Electromagnetic Theory  
 PHY 460 Quantum Mechanics

At least 2 semester hours of Advanced Physics laboratory (PHY 300) and a minimum of 5 additional semester hours from courses numbered above PHY 300 are required. Recommended are Physical Optics (PHY 320) and Mathematical Physics (PHY/MAT 330). Two semester hours of Special Projects in Physics (PHY 397) or Undergraduate Research in Physics (PHY 492) may be substituted for 2 semester hours of Advanced Physics Laboratory (PHY 300).

### Bachelor of Arts

The degree of Bachelor of Arts in physics requires 31 semester hours of physics and astronomy. The BA candidate must successfully complete

PHY 220 University Physics with Laboratory I  
 PHY 222 University Physics with Laboratory II  
 PHY 308 Modern Physics Ideas with Laboratory  
 PHY 310 Dynamics  
 PHY 360 Thermal Physics  
 PHY 361 Modern Physics

A minimum of 8 additional semester hours of physics courses numbered above PHY 300 must be included. Recommended courses are Statics (PHY 305), Physical Optics (PHY 320), Mathematical Physics (PHY/MAT 330), Electromagnetic Theory (PHY 410), and Special Projects in Physics (PHY 397). At least one year of a foreign language is strongly recommended for all pre-engineers and BA candidates.

Substitutions for either the BS or BA requirements in physics are allowed only under certain rare circumstances with written permission from the chair of the Department of Physics and Geology. PHY 110, 211, and 213 may not be applied towards the major in physics.

### The Minor in Physics

The minor in physics requires 21 semester hours of physics and astronomy. PHY 110 may not be applied towards the minor. Students minoring in physics must complete one of the following sequences in physics: PHY 211 and PHY 213; or PHY 220 and PHY 222. PHY 308 is also required for the minor. A student may not take courses from both sequences above to satisfy the required 21 semester hours.

### First-Year Courses for Physics Majors and Pre-Engineering Students:

After consultation with an academic advisor, a physics or pre-engineering student will select first year courses based on whether course prerequisites have been met and whether a pre-engineering option has been determined. Generally, first year courses for physics majors and pre-engineering students will include the following:

	<i>1st Semester Credit Hours</i>	<i>2nd Semester Credit Hours</i>
PHY 100 Science, Engineering and Design	1	
SPE 101 Principles of Speech Communication	3	
ENG 101 College Writing	3	
MAT 120 Calculus I	5	
General Education	3	

CSC 260 Computer Programming I or

IET 212 Computer Aided Drafting and Design\* 3

PHY 220 University Physics with Laboratory I 5

MAT 220 Calculus II 5

General Education 3

\* IET 212 should be taken only by pre-engineers. Consult with an academic advisor to verify transfer equivalency of IET 212. A student may elect to take a general education course instead of IET 212 or CSC 260.

### Physics Research Opportunities and Resources

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 students in research computational physics, optical sciences, geophysics, and theoretical and experimental particle physics.

The physics program has 2700 square feet of research lab space. This includes a machine shop and six research labs: Computational Research Lab, X-ray Diffraction Lab, Radioisotope Lab, Material Science Lab, Optical Sciences Lab, and Particle/Astrophysics Lab. In support of this research, the physics program is equipped with a super computer (parallel processing), a Mossbauer spectrometer, vacuum systems, a modulated differential calorimeter, wide bandwidth digital and analog oscilloscopes, CAMAC data acquisition equipment, high speed NIM electronics, air filled optic tables, UVNIR Spectroradiometers, and an advanced monochromator.

### Pre-Engineering

Engineering has traditionally been associated with the physical sciences, given its special emphasis on application of what we know about the world. Engineers are constantly at work seeking to understand the laws of the physical universe, to take advantage of the beneficial aspects of nature, and to convert or modify the adverse factors of nature in order to improve the plight of human beings as well as that of the world itself. Simply put, engineering is systematic problem solving.

Although Northern Kentucky University does not have a college of engineering, students have a variety of options for pursuing a career in engineering. Any of these options provides the opportunity for the student to earn an ABET accredited degree in engineering. This degree in engineering qualifies the graduate to take the Fundamentals of Engineering examination which is the first step towards registration as a Professional Engineer.

### Engineering Options

#### *Three-Two Dual Degree Programs*

To assure pre-engineering students of transfer credit into an engineering program, NKU has formalized articulation agreements with the engineering programs at the University of Kentucky (UK) and the Univer-

sity of Louisville (UL). Usually pre-engineering students elect to follow one of these agreements which require completing three years at NKU, then completing at least two more years of courses at UK or UL after transferring. A student who follows one of these three/two agreements will be awarded a bachelor's degree in physics from NKU and a degree in a field of engineering from UK or UL. With this option students may not need to select a specific field of engineering in their early semesters of undergraduate work. Details of specific three-two agreements with UK and UL are given below.

#### ***Physics Bachelor's Degree/Graduate Degree in Engineering***

This option is for pre-engineering students who prefer to complete a degree in four years while here at NKU with the flexibility after graduation of pursuing either employment or a graduate degree in physics or engineering. Almost all graduate engineering programs admit qualified students with bachelor degrees in physics provided students complete certain undergraduate engineering courses in their early semesters of graduate work.

#### ***Early Transfer with no degree from NKU***

This option is for pre-engineering students who are certain of their interest in a specific field of engineering and who intend to follow closely the specific course requirements of another institution, such as UK. After completing two years (or less) at NKU, a student can elect to transfer to an ABET accredited engineering college to pursue a BS in engineering from that institution. Usually under this option, the NKU pre-engineering student completes the degree in the same time frame as those students who attended the engineering college starting as freshmen. The department's Director of Pre-Engineering is available to advise students on courses for specific engineering fields and their transfer equivalency at various institutions.

#### **Three-Two Dual Degree Program**

##### *BA or BS in Physics/BS in Engineering (University of Kentucky)*

Northern Kentucky University, in cooperation with the University of Kentucky, offers students the opportunity to pursue a degree in biosystems/agricultural chemical, civil, computer, electrical, mechanical, materials, or mining engineering. Transfer articulation agreements assure an easy and predictable transfer of NKU course credits to the University of Kentucky for any of these BS degree programs in engineering. After completing three years at NKU, the student transfers to UK (with course credit) to complete an additional two years (or more depending on cooperative education options) in one of UK's engineering programs. Normally students will complete the remaining NKU degree requirements during their first year at UK. Afterwards a student is awarded two degrees: a

bachelor's degree in physics from NKU and one of the BS degrees in engineering at UK.

##### *BA or BS in Physics/MS in Engineering (University of Louisville)*

Northern Kentucky University has similar transfer articulation agreements with the Speed Scientific School of the University of Louisville. After the student completes three years of work as an undergraduate at NKU, the student transfers to UL (with course credit) to complete a Master of Science degree in chemical, civil/environmental, electrical, computer, industrial or mechanical engineering. The UL program has a mandatory cooperative education component.

While at NKU, pre-engineering students are required to consult with an academic advisor in the Department of Physics and Geology prior to registration every semester. Generally, first year courses for the pre-engineering students will closely match those taken by physics majors (see above).

#### **Teacher Education in Physics and Geology**

Changes in the Kentucky Department of Education standards have resulted in new degree programs for students interested in teaching physical science at the secondary level. The previous Area of Concentration in Science is no longer available except for students who entered the program in 2001-02 or earlier (refer to the 2002-03 or earlier catalogs for details). Programs are now available that prepare students for certification in secondary chemistry (refer to the Chemistry listing in this catalog), physics, or earth and space science.

#### **Earth and Space Science for Secondary Education:**

Preparation for certification to teach earth and space science at the secondary level requires completion of the B.A. in Geology plus 11 hours of astronomy courses. Detailed program requirements can be found under Secondary Education 8-12 in the College of Education section of this catalog. Students interested in this program should declare a major in geology and consult with the Chair of the Department of Physics and Geology and the Coordinator for Admissions and Advising in the College of Education.

#### **Physics for Secondary Education:**

Preparation for certification to teach physics at the secondary level requires completion of the B.A. in physics (degree requirements above). Detailed program requirements can be found under *Secondary Education 8-12* in the College of Education section of this catalog. Students interested in the program should contact the Chair of the Department of Physics and Geology and the Coordinator for Admissions and Advising in the College of Education.



# Political Science and Criminal Justice Department

## FACULTY

J. Michael Thomson, *interim chair*  
Linda L. Dolive, *international studies coordinator*  
Mark Marsolais, *internship coordinator*  
Melissa Moon, *assistant chair*  
Amy Thistlethwaite, *criminal justice coordinator*

Shamima Ahmed, Michael Baranowski, Ramona Brockett, Clinton G. Hewan, Dean A. Minix, Dennis O'Keefe, Adalberto J. Pinelo, Jill Shelley, Kimberly Weir

## CONTACTING THE DEPARTMENT

The Department of Political Science and Criminal Justice is located in LA 217-C and may be reached during business hours by phone at 859-572-5321. You can also visit the department's website at <http://www.nku.edu/~psc> or e-mail [psc@nku.edu](mailto:psc@nku.edu).

Dr. J. Michael Thomson, *interim chair* [thomson@nku.edu](mailto:thomson@nku.edu)

## PROGRAMS OFFERED

### Associate Degree in Criminal Justice

#### Bachelor of Science

Political Science

#### Bachelor of Arts

International Studies

Criminal Justice

Political Science

## GENERAL EDUCATION COURSES OFFERED

JUS 101 Introduction to Criminal Justice  
PSC 100 American Politics  
PSC 100H Honors American Politics  
PSC 101 State and Local Politics  
PSC 102 Comparative Politics  
PSC 103 International Politics  
PSC 110 History of Western Political Thought  
PSC 111 History of American Political Thought  
PSC 215 Race, Gender, and Politics  
PSC 291W Writing in Political Science  
JUS 231 Race, Gender, and the Crime

## MISSION

We offer a wide range of degrees, from the associate's degree to the master's degree that prepare students for a variety of careers. We are committed to developing the critical thinking and writing skills of our students, and we strongly believe in meaningful civic engagement by students and faculty.

## POLITICAL SCIENCE

The faculty of Political Science promotes a comprehensive understanding of politics — a process by which benefits and burdens are given out through public means. It does so by acquainting students with literature of the discipline in four areas of specialization: American politics, comparative politics, international politics, and theory/practice; 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 seeks to engage students in a partnership of research and other scholarly endeavors and in service to the community. More specifically, the faculty provides

1. courses to comprise both a major and minor in political science;
2. courses that satisfy part of the general education requirements;
3. preparation for graduate and professional schools, particularly law school;
4. support courses for a variety of interdisciplinary programs such as environmental studies, international studies, Latin American studies, legal studies, and women's studies;
5. courses that provide background for careers in business, public service in government or international agencies, and teaching.

## BACHELOR'S DEGREE PROGRAMS

### Political Science (Bachelor of Arts)

The major in political science (BA) consists of 39 semester hours:

1. PSC 100 or PSC 101.
2. PSC 102, 103, 110, and 315.
3. Twenty-four semester hours of upper-division coursework from the areas listed below; a minimum of one course is to be chosen from each area.
  - a. American Government (PSC 301, 304, 305, 307, 308, 310, 311, 394, 403\*, 415\*\*, 430, 496).
  - b. International Politics (PSC 338, 394, 410, 415\*\*, 420, 470, 480, 481, 486, 496).
  - c. Comparative Politics (PSC 330, 335, 355, 362, 382, 394, 485, 496).
  - d. Political Theory/Practice (PSC 312, 316, 370, 373, 374, 394, 403\*, 496, PAD 300, 412, 455, 475).

\* Can be used in either American or Theory/Practice category

\*\* Can be used in either American or International category

A student may substitute one or two reading courses (PSC 499) for courses required in number 3 above. Reading courses are designed primarily for students who have an interest or academic curiosity not satisfied by the existing curriculum but potentially covered by the expertise of the faculty in the department; or for graduating seniors who, for reasons beyond their control, are lacking a requirement. Such courses are normally limited to a maximum of 6 semester hours for each student and require the consent of the instructor and the political science chair. An internship may not count as the only course in an area.

Students majoring in political science may apply for a legislative internship (PSC 496) in Frankfort, Kentucky, or The Washington Center in Washington, D.C. for one semester. Those accepted will take up to 15 semester hours.

Students majoring or minoring in political science must earn at least a C in each course counted as part of the major or minor.

Anyone pursuing teacher certification must schedule an appointment with the coordinator of certification and advisement in the College of Education at the beginning of the sophomore year.

Students working toward the Bachelor of Arts in political science are strongly urged to fulfill the general education requirement in mathematics by taking Elementary Statistics (MAT 205).

The degree of Bachelor of Arts is conferred upon those students completing all requirements for the major in political science and other NKU requirements for the degree.

### Political Science (Bachelor of Science)

The major in political science (BS) consists of 42 semester hours. The program includes more rigorous quantitative skills than the BA program and is recommended for students considering graduate work in any social science. In addition to all the requirements for the Bachelor of Arts, the Bachelor of Science requires Data Analysis (PSC 316) and Elemen-

tary Statistics (MAT 205). Students working toward the Bachelor of Science may not use PSC 316 to satisfy the political theory/practice area (3.b above).

The degree of Bachelor of Science is conferred upon those students completing the requirements of the program and other NKU requirements for the degree.

### The Major in Criminal Justice

The major in criminal justice is a broad criminal justice program that studies the administration of justice and the resolution of conflict within society. More specifically, the major focuses on the three major aspects of the criminal justice system: police, courts, and corrections.

Leading to the degree of Bachelor of Arts, the major consists of a 21-semester-hour core and 21 semester hours of secondary requirements. Core courses provide a conceptual understanding of criminal justice institutions and processes, theories of crime and punishment, criminal law, and social science research methods.

The program offers a major and minor designed to prepare students for graduate studies and for careers in criminal justice and allied fields. Rather than training individuals for a particular occupation through instruction in specific vocational skills, the program offers a broad, liberal education focused on the cultivation of analytical and creative thought and on the ability to read, write, and speak effectively.

Students majoring or minoring in criminal justice must earn at least a C in each course counted as part of the major or minor.

#### Core Requirements (21 semester hours)

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 302 Criminal Law	3
JUS 317 Perspectives on Crime	3
PSC 315 Scope and Methods	3

#### Secondary Requirements (21 semester hours)

Students must complete a minimum of 12 hours at 300 level or above

JUS 204 Criminal Investigation	
JUS 205 Criminal Evidence	
JUS 210 Legal Research	
JUS 215 Private Sector Security	
JUS 220 Liability and Ethics in Criminal Justice	
JUS 231 Race, Gender and Crime	
JUS 294 Special Topics	
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 318 The African American, The Law and The Courts	
JUS 319 Criminal Justice in Film	
JUS 320 Advanced Crime Scene Technology & Criminalistics	
JUS 321 Black Women, Crime and Politics	
JUS 351 Organized/White Collar Crime	
JUS 400 Juvenile Justice System	
JUS 401 Correctional Rehabilitation	
JUS 402 Alternatives to Incarceration	
JUS 409 Alternative Dispute Resolution	
JUS 430 The Politics of Criminal Justice	
JUS 494 Special Topics	
JUS 496 Criminal Justice Internship	
PSC 304 Introduction to the Law	
PSC 305 The Judicial Process	
PAD 412 Administrative Law	
SOC 202 Juvenile Delinquency	
SOC 305 Criminology	
SOC 350 Women and Crime	

SOC 357 Sociology of Firearms	
SOC 488 Sociology of Law	
SOC 455 Comparative Criminal Justice	
HSR 212 Crises Intervention	
PHI 330 Philosophy of Law	

### The Major in International Studies

See "Interdisciplinary Studies" on page 87 of this catalog.

### ASSOCIATE DEGREE IN CRIMINAL JUSTICE 66-68 hours

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

Students in the Associate Degree program in criminal justice must earn at least a C in each course to be counted as part of the program.

#### First Year

##### First semester (15 semester hours)

JUS 101 Introduction to Criminal Justice	3
ENG 101 College Writing	3
PSC 100 American Politics (or PSC 101 State and Local Politics)	3
PSY 100 Introduction to Psychology	3
SOC 100 Introduction to Sociology	3
<b>Total</b>	<b>15</b>

##### Second semester (15-16 semester hours)

JUS 200 Police in America	3
JUS 201 Corrections in America	3
JUS 203 The Criminal Court System	3
SPE 101 Principles of Speech Communication	3
General education natural science requirement from approved list	3(4)

#### Second Year

##### First semester (18 semester hours)

JUS 231 Race, Gender, and Crime	3
ENG 291 Advanced Writing	3
Three courses from list of criminal justice electives	
General education humanities/fine arts requirement from approved list	12

##### Second semester (18-19 semester hours)

One course from list of criminal justice electives	3
General education mathematics requirement from approved list	3(4)
Twelve hours of free electives	12

#### Criminal Justice Electives

JUS 204 Criminal Investigation	
JUS 205 Criminal Evidence	
JUS 210 Legal Research	
JUS 215 Private Sector Security	
JUS 220 Ethics and Liability in Criminal Justice	
JUS 294 Special Topics	
HSR 212 Crises Intervention	
SOC 202 Juvenile Delinquency	

Students may take 300 or 400 level courses with consent of instructor.

**MINORS****The Minor in International Studies**

See under "International Studies" on page 87 of this catalog.

**The Minor in Criminal Justice**

Students minoring in criminal justice (21 semester hours) complete a 12 semester-hour core and 9 semester hours of secondary requirements. Students minoring in criminal justice must earn at least a C in each course counted as part of the minor.

*Core Requirements (12 hours)*

JUS 101 Introduction to Criminal Justice  
 JUS 200 Police in America  
 JUS 201 Corrections in America  
 JUS 203 The Criminal Court System

*Secondary Requirements (9 hours at the 300-level or above)*

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 317 Perspectives on Crime  
 JUS 319 Criminal Justice in Film  
 JUS 320 Advanced Crime Scene Technology & Criminalistics  
 JUS 321 Black Women, Crime and Politics  
 JUS 351 Organized/White Collar Crime  
 JUS 400 Juvenile Justice System  
 JUS 401 Correctional Rehabilitation  
 JUS 402 Alternatives to Incarceration  
 JUS 409 Alternative Dispute Resolution  
 JUS 430 The Politics of Criminal Justice  
 JUS 494 Special Topics  
 JUS 496 Criminal Justice Internship  
 PAD 412 Administrative Law  
 PHI 330 Philosophy and Law  
 PSC 304 Introduction to Law  
 PSC 305 The Judicial Process  
 SOC 305 Criminology  
 SOC 350 Women and Crime  
 SOC 455 Comparative Criminal Justice  
 SOC 357 Sociology of Firearms  
 SOC 488 Sociology of Law

**The Minor in Latin American Studies**

See "Latin American and Caribbean Studies" on page 88.

**The Minor in Legal Studies**

See "Legal Studies" on page 88.

**The Minor in Political Science**

The minor in political science consists of PSC 100, 102, and 103 and 12 semester hours of upper-level courses in political science. Students minoring in political science must earn at least a C in each course counted as part of the major or major.

**The Minor in Public Administration (21 semester hours)**

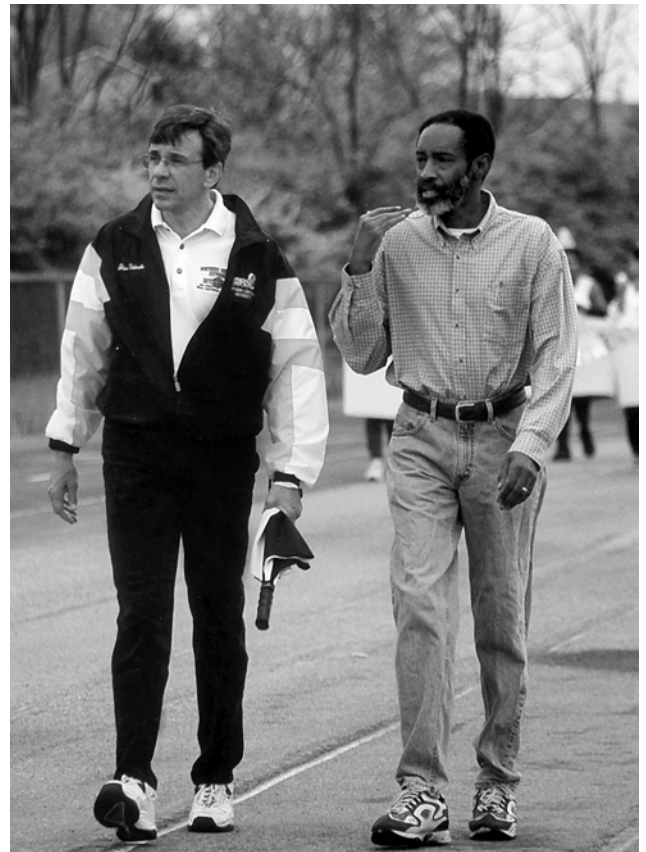
PAD 300 Introduction to Public Administration  
 PAD 401 Human Resource Management  
 PAD 411 Budgeting Technology and Applications  
 PSC 100 American Politics (or PSC 101 State and Local Politics)  
 Any three of the following courses:  
 PSC 403 Public Policy Analysis  
 PSC 316 Political Analysis  
 Any PAD course from PAD 412 to PAD 499

**THE AREA OF CONCENTRATION IN PRE-LAW**

Political science is one of the majors most frequently chosen by those who plan to enter law school, but it should be noted that it is far from being the only appropriate choice. Students considering law careers may choose a legal studies minor or may simply wish to fulfill their requirement for an Area of Concentration by taking four upper-division political science law courses. Since upper-division political science courses have a prerequisite of 3 semester hours of lower-division political science work, it is suggested that students taking this concentration satisfy this prerequisite by taking American Politics (PSC100). The suggested course of study is as follows:

PSC 304 Introduction to the Law  
 PSC 305 The Judicial Process  
 PSC 307 Constitutional Law  
 PSC 308 Civil Liberties

It should be noted that undergraduate "law" courses should not be taken for the purpose of learning the "law" and certainly are not necessary for law school admission. Such courses may well be helpful, however, in providing an understanding of the place of the law in society and a better basis for students to estimate their potential interest in law school.





# Psychology Department

## FACULTY

George D. Goedel, *chair*

Bill Attenweiler, Mark E. Bardgett, Robin M. Bartlett, Carole A. Beere, Paul D. Bishop, Kimberly H. Breitenbecher, Mei Mei Burr, Perilou Goddard, David E. Hogan, Douglas S. Krull, Angie Lipsitz, George E. Manning, Cynthia R. McDaniel, Jeffrey M. Smith, James H. Thomas

## CONTACTING THE DEPARTMENT

The Department of Psychology is located in BEP 337 and may be reached during business hours by phone at 859-572-5310. Visit the department's website at <http://www.nku.edu/~psych>.

Dr. George D. Goedel, *chair* goedel@nku.edu

## PROGRAMS OFFERED

### Bachelor of Arts

Psychology

### Bachelor of Science

Psychology

### Minor

Psychology

### Master

Master of Applied Psychology in I/O

## GENERAL EDUCATION COURSES OFFERED

PSY 100 Introduction to Psychology  
 PSY 100H Honors Introduction to Psychology  
 PSY 200 Psychology of Personal Adjustment  
 PSY 201 Psychology of Race and Gender  
 PSY 205 Psychology of Human Sexuality  
 PSY 206 Human Sexuality Forum  
 PSY 220 Lifespan Development  
 PSY 291W Writing in Psychology

## DEPARTMENT POLICIES

### Grade Requirement

Students majoring (or minoring) in psychology must have a grade of C or better in all courses applied toward certification of the major or minor in psychology.

### Computer Literacy Requirement

Students majoring in psychology satisfy the University requirement of competence in computer use by successfully completing PSY 210L Research Tools in Psychology or its equivalent.

### Assessment Testing

All students majoring in psychology are required to participate in departmental assessment testing which is conducted in December and May upon completion of each student's final full semester prior to graduation.

### Transfer Students

Transfer students obtaining a major or minor in psychology must complete at least half of their required coursework in psychology at NKU.

## FACULTY'S PRIMARY OBJECTIVES

The faculty of Psychology seeks to provide excellence in education through teaching, research, and community involvement and to serve the needs of students for knowledge in the discipline and profession of psychology. An additional goal is to provide a balanced approach emphasizing the teaching, research, and practical application of psychology. To meet these goals, the curriculum provides the following:

1. a strong background to prepare students for careers in mental health facilities, industries, and other occupations that value an undergraduate background in psychology;
2. appropriate preparatory courses for students going on to graduate study;
3. some understanding, for students majoring in other disciplines, of psychology and its application to human relations.

## BACHELOR'S DEGREE PROGRAM

The major in psychology consists of a minimum of 43 semester hours and requires completion of the following:

1. Five core courses:
  - PSY 100 Introduction to Psychology
  - MAT 205 Elementary Statistics
  - PSY 210 Research Methods in Psychology
  - PSY 210L Research Tools in Psychology
  - PSY 210R Career Planning for Psychology Majors
2. Three courses from each of the following course groupings:
  - a. PSY 309 Psychology of Perception
    - PSY 311 Biopsychology
    - PSY 337 Animal Learning
    - PSY 338 Cognitive Processes
    - PSY 340 Social Psychology
  - b. PSY 300 Personality Theory
    - PSY 305 Psychological Testing
    - PSY 319 Child Psychology
    - PSY 333 Abnormal Psychology
    - PSY 344 Industrial/Organizational Psychology
3. Five additional courses (13-15 semester hours) in psychology with at least three at the 300 level or above.

The psychology major is designed to provide students with flexibility in the selection of courses to meet their individual interests and career goals. Students must meet with a psychology faculty adviser during the first semester following the declaration of psychology as their major to receive assistance in designing a program of coursework based on their individual needs. All students are encouraged to meet with a faculty adviser 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 and/or supervised research.

The degree of Bachelor of Science or Bachelor of Arts is conferred upon students completing the major in psychology.

The degree of Bachelor of Science is conferred upon students who have completed one of the following options: (1) one college-level mathematics course (in addition to MAT 205) and two laboratory courses in psychology or (2) two statistics courses (beyond MAT 205) from MAT 312, MAT 314, and MAT 315; and one laboratory course in psychology.

The Bachelor of Arts is conferred upon students completing a minimum of 6 semester hours of a foreign language (two or more courses with the same language prefix) or its equivalent. This requirement is in addition to the current NKU general education requirement in the humanities area. Students pursuing a psychology degree in conjunction with a secondary education curriculum should review that portion of this catalog relating to education and health/physical education. Upon deciding to pursue the teacher education program, students must meet with the coordinator of certification and advisement in the College of Education.

### The Minor in Psychology

The minor in psychology consists of 24 semester hours, including Introduction to Psychology (PSY 100 or PSY 100H) and seven additional courses in psychology.

# Sociology, Anthropology, and Philosophy Department

## FACULTY

Jerald H. Richards, *chair*

MaryCarol Hopkins, *coordinator, anthropology program*

Terry G. Pence, *coordinator, philosophy and religious studies programs*

Kristen Yount, *coordinator, sociology program*

Joan Ferrante, *coordinator, applied cultural studies program*

Prince Brown, Jr., *director, institute for freedom studies*

### Anthropology

JoEllen Burkholder, Timothy D. Murphy, Sharlotte Neely, Barbara Thiel,

Delores M. Walters

### Philosophy

Rudy L. Garns, Nancy S. Hancock, Robert B. Kenney, Dennis D. Miller, Robert Trundle, Jr.

### Sociology

Barbara A. Arrighi, Yuchi (Boni) Li, J. Robert Lilly, Stephen C. Richards

## CONTACTING THE DEPARTMENT

The Department of Sociology, Anthropology, and Philosophy is located in LA 216 and may be reached during business hours by phone at 859-572-5259. Visit the department's websites: Sociology—<http://www.nku.edu/~soc>, Anthropology—<http://www.nku.edu/~anthro>, or Philosophy and religious studies—<http://www.nku.edu/~philos>.

Dr. Jerald H. Richards, *chair*      richardsj@nku.edu

## PROGRAMS OFFERED

### Majors

Anthropology  
Philosophy  
Sociology  
Applied Cultural Studies

### Minors

Anthropology  
Applied Cultural Studies  
Archaeology  
Native American Studies  
Philosophy  
Applied Philosophy  
Religious Studies  
Sociology

## GENERAL EDUCATION COURSES OFFERED

ANT 100 Cultural Anthropology  
ANT 110 Introduction to Archaeology  
ANT 130 American Culture  
ANT 201 World Cultures  
ANT 202 Introduction to Physical Anthropology  
ANT 210 Introduction to Archaeological Method and Theory  
ANT 230 North American Indians  
ANT 231 Modern American Indians  
ANT 240 Peoples of Africa  
ANT 243 Peoples of East Asia  
ANT 245 Peoples of Latin America  
PHI 150 Introduction to Philosophy  
PHI 155 Introduction to Ethics  
PHI 160 World Religions  
PHI 165 Introduction to Logic  
PHI 170 Philosophy and Sexuality  
PHI 180 History of Classical and Medieval Philosophy  
PHI 185 History of Modern and Contemporary Philosophy

PHI 201 Ideas in Philosophy  
PHI 220 Health Care Ethics  
PHI 250 Eastern Philosophy  
PHI 330 Philosophy of Law  
PHI 350 Philosophy of Religion  
REL 181 Survey of the Hebrew Bible (Old Testament)  
REL 182 Survey of the New Testament  
REL 185 Survey of Christianity  
REL 186 Introduction to Judaism  
REL 290 Ideas in Religious Studies  
REL 325 African American Religious Experience in America  
REL 370 Religion and Science  
SOC 100 Introductory Sociology  
SOC 110 Introduction to Race and Gender  
SOC 205 Current Social Issues  
SOC 210 Analysis of Racism and Sexism in the United States  
SOC 245 Latin American Societies

## PRE-MAJOR AND SELECTIVE ADMISSION REQUIREMENTS

None

## DEPARTMENT POLICIES

### Assessment

All graduating seniors in sociology, anthropology, applied cultural studies, and philosophy are required to take part in their discipline's assessment program during the semester prior to graduation. The results will be used by the department faculty to determine how the department's major programs of study and curricula are serving students and the programs' goals. Students who do not participate in the assessment will not be allowed to graduate unless prior approval has been obtained from the department chair.

## SOCIOLOGY, ANTHROPOLOGY, AND PHILOSOPHY

Study in these areas serves a two-fold purpose. First, it contributes to the general education of students by increasing their insight into human institutions, behaviors, and beliefs. Second, it provides students with preparation applicable to a variety of occupations or to graduate work. Specific course requirements for each program are described below.

## SOCIOLOGY

The primary mission of the sociology program is to provide undergraduate students with an understanding of concepts and methods of the scientific study of society and social relations. Sociology is both a perspective, a way of viewing society, and a set of techniques for seeking answers to questions about social behavior; courses are designed to acquaint students with both aspects of the discipline. The program seeks to develop students' ability to observe and think critically about their own and other societies and to become more sensitive to behavioral and value differences among peoples.

The program offers a major in sociology leading to the degree of Bachelor of Science. A minor in sociology is also offered. SOC 100, 110, 205, 210, and 245 may be used to satisfy the general education requirement in behavioral sciences, and other sociology courses serve as components of interdisciplinary programs and majors in other programs. Sociology courses are core components of the applied program in sociology and anthropology.

## Bachelor's Degree Program

The major in sociology requires the successful completion of 39 semester hours in the discipline, 18 of which must be at the 300 or 400 level. The curriculum consists of five categories of courses. Students majoring in sociology are required to complete all courses in category 1 (core courses) and at least one course from each of the remaining categories. Together, these comprise 24 semester hours; the remaining 15 semes-

ter hours are to be chosen as sociology electives. A grade of at least a C must be earned in the core courses, and a grade-point average of at least 2.00 must be earned in all courses that comprise the major.

1. *Core Courses (12 semester hours)*
  - SOC 100 Introductory Sociology
  - SOC 320 Social Research
  - SOC 330 Sociological Theory
  - SOC 494 Senior Seminar
2. *Social Institutions (minimum of 3 semester hours)*
  - SOC 203 Sociology of Corrections
  - SOC 208 Police and Society
  - SOC 308 Social Organization
  - SOC 315 Marriage and the Family
  - SOC 355 Sociology of the Environment
  - SOC 430 Sociology of Religion
  - SOC 450 Medical Sociology
  - SOC 488 Sociology of Law
  - SOC 520 Sociology of Education
3. *Power and Inequality (minimum of 3 semester hours)*
  - SOC 250 Women in Society
  - SOC 300 Race and Ethnic Relations
  - SOC 301 World Patterns of Race and Ethnicity
  - SOC 307 Social Stratification
  - SOC 335 Popular Culture
  - SOC 425 Political Sociology
4. *People, Places, and the Life Cycle (minimum of 3 semester hours)*
  - SOC 202 Juvenile Delinquency
  - SOC 213 Sociology of Aging
  - SOC 245 Latin American Societies
  - SOC 303 Social Psychology
  - SOC 318 Occupations
  - SOC 340 Population
  - SOC 400 Urban Society
5. *Social Issues and Social Change (minimum of 3 semester hours)*
  - SOC 205 Current Social Issues
  - SOC 305 Criminology
  - SOC 332 Collective Behavior
  - SOC 350 Women and Crime
  - SOC 357 Sociology of Firearms
  - SOC 360 Technology and Social Change
  - SOC 380 Elite Deviance
  - SOC 381 Deviance and Social Control
  - SOC 420 Community Corrections

All students majoring in sociology are required to prepare a portfolio for SOC 494 (Senior Seminar). The table of contents will specify the title of each entry and the course for which the assignment was written. The portfolio must include a letter discussing its contents. The contents must include five assignments that, when taken together, demonstrate that the student has

1. understood the classical theoretical perspectives in sociology;
2. analyzed an issue with a sociological framework (theory, concept, and/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;
5. understood conceptually the statistical analysis of sociological data.

### Focus on Criminology

The program in sociology offers a variety of courses for students interested in careers as court administrators, criminal justice administrators, criminal justice research administrators, social service professionals, police officers, corrections officers, probation and parole officers, juve-

nile caseworkers, or substance abuse counselors. Suggested courses for a major in sociology with a criminology focus are the following:

- SOC 202 Juvenile Delinquency
- SOC 203 Sociology of Corrections
- SOC 208 Police and Society
- SOC 305 Criminology
- SOC 350 Women and Crime
- SOC 357 Sociology of Firearms
- SOC 380 Elite Deviance
- SOC 381 Deviance and Social Control
- SOC 420 Community Corrections: Probation and Parole
- SOC 455 Comparative Criminal Justice
- SOC 488 Sociology of Law

### Focus on Society, Environment, and Technology

The roles of behavior, culture, and social organization are central to the study of human technology and environment and of their interrelationships. Students majoring in sociology who have particular interest in issues and problems of the relationships of socio-cultural factors and technology and environment should consider selecting courses addressing those specific concerns. The focus area, in combining sociology and anthropology, prepares students for close examination of factors associated with issues such as global ecological problems, the role of technology in social and cultural change, and resource utilization and management, among others. Suggested courses are the following:

- ANT 345 Environmental Anthropology
- SOC 340 Population
- SOC 355 Sociology of the Environment
- SOC 360 Technology and Social Change

SOC 340, 355, and 360 may be used to satisfy existing requirements of the major in sociology. With the recommendation of the student's advisor and approval by the department chair, the 3 semester hours in anthropology may be applied to fulfilling the requirements for the bachelor's degree in sociology.

### The Minor in Sociology

The sociology minor is 22 semester hours in the discipline. The core sequence (SOC 100, 320, and 330) is required with minimum grades of C. The remaining 12 semester hours may be taken from any sociology courses. An overall grade-point average of at least 2.00 is required in courses comprising the minor.

### APPLIED CULTURAL STUDIES

The applied cultural studies program (ACS) integrates the disciplines of sociology and anthropology and strives to prepare students for a career and life in an information-and-global society by giving them a strong background in research methods and an appreciation for cultural diversity. The background in methods gives students the skills to recognize and create high-quality information. An appreciation for cultural diversity within and between groups ensures that students, in gathering that information, venture outside the familiar and comfortable confines of their own social circles for input and feedback. These skills are important because in an information society the majority of workers spend their time processing, gathering, creating, and/or distributing information. The major seeks to produce students who can work with business firms, public organizations, and agencies as information gatherers, researchers, and program evaluators.

The coordinator of the applied program works closely with students in the program to help them find a career and to build a résumé while in college. For more on the applied program, see our website at <http://www.nku.edu/~acs>. On the website you will find a sample résumé, a list of practicum projects, and a sample of agencies and corporations that hire employees with the skills our graduates possess.

The applied cultural studies program strives to develop

1. written, verbal, and communication skills;

2. computer skills (spreadsheet, power point, word processing, statistical packages);
3. analytical abilities;
4. strong interviewing skills;
5. the ability to organize information and to communicate and present research findings in a clear and useful manner;
6. experience with all phases of the research process, including data analysis and reporting;
7. experience using the Internet as a research tool;
8. the ability to communicate effectively with persons of different social, economic, and ethnic backgrounds.

To accomplish these objectives, students take introductory and basic methods courses in sociology and anthropology, applied courses in both disciplines, and individually selected content courses dealing with cultural diversity. The capstone of the program is on-the-job experience in gathering and analyzing data and reporting the results in an agency or institution through the practicum courses. Practica are arranged for students in close association with the program coordinator. An overall grade-point average of at least 2.00 must be maintained in courses for the major.

### **Bachelor's Degree Program**

Requirements for the major in applied cultural studies leading to the degree of Bachelor of Science are as follows:

#### *Core Requirements*

Students are required to complete each of the following courses (21 semester hours):

- SOC 100 Introductory Sociology
- SOC 320 Social Research
- SOC 321 Applied Social Research
- ANT 100 Cultural Anthropology
- ANT 325 Applied Anthropology
- ANT 339-340 Ethnographic Methods
- MAT 205 Elementary Statistics

### **The Sociological Perspective**

Students must complete at least 6 semester hours from the following courses. Other courses may fulfill the requirement for this area with written approval of the program coordinator and the department chair.

- SOC 303 Social Psychology
- SOC 307 Social Stratification
- SOC 308 Social Organization
- SOC 315 Marriage and the Family
- SOC 318 Occupations
- SOC 322 Applied Sociology
- SOC 330 Sociological Theory
- SOC 335 Popular Culture
- SOC 340 Population
- SOC 355 Sociology of the Environment
- SOC 360 Technology and Social Change
- SOC 380 Elite Deviance
- SOC 400 Urban Society
- SOC 425 Political Sociology
- SOC 450 Medical Sociology
- SOC 488 Sociology of Law

### **The Anthropological Perspective**

Students must complete at least 3 semester hours from the following courses. Other courses may fulfill the requirement for this area with written approval of the program coordinator and the department chair.

- ANT 275 Language and Culture
- ANT 312 Social Organization
- ANT 330 Women, Gender, and Culture: A Global Perspective
- ANT 345 Environmental Anthropology
- ANT 401 Culture Theory

### **Topics in Cultural Diversity**

Students must complete at least 9 semester hours from the following list of courses. The 9 semester hours cannot be in only one discipline. Other courses may fulfill the requirements for this area with written approval of the program coordinator and the department chair.

- ANT 201 World Cultures
- ANT 231 Modern American Indians
- ANT 240 Peoples of Africa
- ANT 243 Peoples of East Asia
- ANT 320 Religion and Culture
- ANT 362 Japanese Culture and Society
- ANT 365 Modern Chinese Culture

#### *Practicum Area*

- Students must complete the following courses (7 semester hours):
- SOC/ANT 460 Practicum Preparation
  - SOC/ANT 391-491 Research Practicum I and II

### **The Minor in Applied Cultural Studies**

A minor in applied cultural studies is awarded to students completing at least the following:

1. Four courses: Introductory Sociology (SOC 100), Cultural Anthropology (ANT 100), Social Research (SOC 320), and Applied Anthropology (ANT 325) or Ethnographic Methods (ANT 340).
2. Three diversity courses (The courses cannot be in one discipline).
  - ANT 201 World Cultures
  - ANT 231 Modern American Indians
  - ANT 240 Peoples of Africa
  - ANT 320 Religion and Culture
  - SOC 250 Women in Society
  - SOC 213 Sociology of Aging
  - SOC 300 Race and Ethnic Relations (or SOC/ANT 301 World Patterns of Race and Ethnicity)

### **ANTHROPOLOGY**

Anthropology is the investigation of humankind's past and present. Specifically, it includes the subfields of cultural anthropology (study of the great variety of societies and cultures in the world today); archaeology (study of past societies and cultures); physical anthropology (study of the origin and biological nature of humans); anthropological linguistics (study of language and its relationship to culture); and applied anthropology (the use of anthropological knowledge to help solve practically oriented problems). Through these subfields, anthropology explains differences and similarities among all human groups, at all times, and in all places.

Courses in anthropology are designed to provide students with an appreciation and broadened view of the diversity of past and present human cultures and an understanding of the origin and biological nature of people and their near relatives. The anthropology program, through its major and minor options, (1) prepares students for a variety of career opportunities depending on individual student interest and coursework, (2) prepares students to do graduate work in anthropology, and (3) provides a complementary program of study for students majoring or minoring in other social and behavioral sciences or in interdisciplinary programs. To meet these objectives, the program offers a major with the degree of Bachelor of Science or Bachelor of Arts and three minors. In addition, anthropology students seeking only the BA/BS degree who wish to obtain research jobs may prefer to major in the applied cultural studies program or to pursue a double major. We recommend the Bachelor of Arts for students who plan to seek a graduate degree. For more information see the anthropology web site at <http://www.nku.edu/~anthro>.

### **Bachelor's Degree Programs**

#### **Bachelor of Science**

The major in anthropology leading to the degree of Bachelor of Science, consists of 44 semester hours and requires the completion of the following:

1. Eight core courses:
  - ANT 100 Cultural Anthropology
  - ANT 110 Introductory Archaeology
  - ANT 202 Introduction to Physical Anthropology
  - ANT 202L Introduction to Physical Anthropology Laboratory
  - ANT 210 Introduction to Archaeological Method and Theory
  - ANT 275 Language and Culture
  - ANT 312 Social Organization
  - ANT 480 Advanced Anthropological Concept

A student must earn at least a C in each of these core courses, except ANT 480 in which a student must earn an A.

2. Two topical courses, at least one of which must be at the 300 or 400 level
  - ANT 231 Modern American Indians
  - ANT 301 World Patterns of Race and Ethnicity
  - ANT 307 Museum Methods
  - ANT 308 Cultural Resource Management
  - ANT 320 Religion and Cultures
  - ANT 325 Applied Anthropology
  - ANT 330 Women, Gender & Culture a Global Perspective
  - ANT 345 Environmental Anthropology
  - ANT 350 North American Archaeology
  - ANT 352 Archaeology of Mesoamerica
  - ANT 354 South American Archaeology
  - ANT 358 Anthropology and the Arts
  - ANT 373 The Underground RR in the Ohio-Kentucky Borderlands
  - ANT 380 Origins of Civilization
  - ANT 392 Research: Archaeology
  - ANT 394 Topics: Anthropology
  - ANT 401 Culture Theory
  - ANT 410 Archeological Theory
3. Two ethnographic area courses
  - ANT 201 World Cultures
  - ANT 230 North American Indians
  - ANT 240 Peoples of Africa
  - ANT 245 Peoples of Latin America
  - ANT 270 Native Australia and Oceania
  - ANT 360 Indians of Mexico and Guatemala
4. One course in methods
  - ANT 215 Archaeological Field Methods
  - ANT 307 Museum Methods
  - ANT 335 Advanced Archeological Field Methods
  - ANT 339 Introduction to Ethnographic Research
  - ANT 340 Ethnographic Methods
  - ANT 355 Advanced Archeological Field Methods
5. One course in theory
  - ANT 401 Culture Theory
  - ANT 410 Archaeological theory
6. Two elective courses in anthropology, at least one of which must be at the 300 or 400 level.

Note: Some courses are listed in more than one category, but a student may not use the same course to fulfill the requirement in more than one category.

### Bachelor of Arts

The major in Anthropology leading to the degree of Bachelor of Arts consists of 52 semester hours and requires completion of the following:

1. The above requirements for the Bachelor of Science degree
2. a minimum of 8 semester hours in a modern foreign language (e.g., French, Spanish, Russian, Chinese or Japanese)
3. MAT 205 Elementary Statistics

### Computer Competency Requirement

Each student must demonstrate competency in the use of computers.

This may be done in one of two ways:

1. Complete CSC 150 with a grade of C or better
2. Pass a test on computer use given by the anthropology faculty.

### Areas of Emphasis

The major may be completed with emphasis in a subfield of anthropology listed below. This will better prepare students for various careers or for graduate work.

#### Cultural Anthropology

Cultural anthropology students take courses covering a variety of world culture areas and on specific aspects of culture such as environmental anthropology, religion, gender, and the arts. These students prepare for careers in multicultural or international fields such as the social and helping services, the travel industry, museum work, health and mental health fields, international affairs and business, or for graduate work in cultural anthropology.

#### Archaeology

The major with an emphasis in archaeology prepares students for careers in contract archaeology, museum work, cultural resource management, and public archaeology, or for graduate work in archaeology. Students interested in archaeology should discuss their program of study with the archaeology adviser in the anthropology program.

#### Physical Anthropology

An emphasis in physical anthropology may be obtained with anthropology courses in human evolution and primates, and biology courses in genetics, anatomy and physiology, and evolution.

#### Applied Anthropology

The anthropology major with a focus on applied courses can be a start towards developing a career in areas relating to the environment, ethnic relations, and community work, among others. Combined with additional coursework in applied sociology, it can lead to employment in a number of fields.

#### Teacher Certification

The anthropology major may serve as the nucleus for an area of concentration leading to teacher certification (those pursuing teaching certification must have their program approved by the education chair). Those adding certification to the major must take 6 semester hours of upper-level courses from four of the following: geography, history, economics, political science, sociology, or psychology. (Psychology courses do not fulfill the state's social studies requirements for teacher education).

#### Focus in Society, Environment, and Technology

The roles of behavior, culture, and social organization are central to the study of human technology and environment and of their interrelationships. Students majoring in anthropology who have particular interests in issues and problems of the relationships of socio-cultural factors and technology and environment should consider selecting courses addressing those specific concerns. The focus area, in combining anthropology and sociology, prepares students for a close examination of factors associated with issues such as global ecological concerns, the role of technology in social and cultural change, and resource utilization and management, among others. Suggested courses are the following:

- ANT 345 Environmental Anthropology
- SOC 340 Population
- SOC 355 Sociology of the Environment
- SOC 360 Technology and Social Change

ANT 345 may be also used to satisfy a topical course requirement in the anthropology major.

## MINORS

### Anthropology

A minor in anthropology consists of 22 semester hours and requires the completion of the following:

1. Six core courses: Cultural Anthropology (ANT 100), Introduction to Physical Anthropology (ANT 202), Introduction to Physical Anthropology Laboratory (ANT 202L), Introduction to Archaeology (ANT 110), Introduction to Archaeological Method and Theory (ANT 210), and Language and Culture (ANT 275).
2. One topical course (e.g., ANT 231, 301, 307, 308, 312, 320, 325, 330, 345, 350, 352, 354, 358, 380, 392, 394, 400, 401, or 410).
3. One additional course in archaeology (e.g., ANT 110, 350, 352, 354, 380, or 410) or in an ethnographic area (e.g., ANT 201, 230, 240, 243, 245, 360, 362, or 365).

### Archaeology

The minor in archaeology is designed to give students competence in prehistory, archaeological methods, and research procedures. It can be valuable in preparing students for graduate study in history, art history, or other disciplines. In conjunction with a major in history, it prepares students for careers in such agencies as state historic preservation offices or various regional offices, where knowledge of both history and archaeology is desirable. The minor can also help prepare students for careers in contract archaeology or museum work. It can provide a broadening of knowledge to students majoring in various disciplines such as history, literature, or many others.

The minor in archaeology consists of 21 semester hours and requires completion of the following:

1. Three core courses: Cultural Anthropology (ANT 100), Introduction to Archaeology (ANT 110), and Introduction to Archaeological Method and Theory (ANT 210).
2. One of the following methods courses: ANT 215, 307, or 355.
3. Three of the following: ANT 215, 307, 308, 335, 350, 352, 354, 355, 380, 392, 410. (215, 307, 355 may only be used if it was not used as a methods course)

The minor is not open to students majoring in anthropology because an archaeology focus is already available within the major in anthropology.

### Native American Studies

The minor in Native American Studies is designed to give students an overview of American Indian life and cultures from prehistoric times to the present with a focus on North America. Because of the overlap in courses, students majoring in anthropology who choose to minor in Native American Studies must also have a second major or minor or an area of concentration outside the anthropology program.

The minor in Native American Studies consists of 21 semester hours and requires completion of the following:

1. Five core courses: Cultural Anthropology (ANT 100), North American Indians (ANT 230), Modern American Indians (ANT 231), World Patterns of Race and Ethnicity (ANT/SOC 301), and North American Archaeology (ANT 350).
2. Two of the following: Archaeology of Mesoamerica (ANT 352), Indians of Mexico and Guatemala (ANT 360), Plains Indians (HIS 416), or any appropriate course approved by the department chair, for example, Museum Methods (ANT 307) or Ethnographic Methods (ANT 340) if the student chooses a Native American emphasis, or Topics in Anthropology (ANT 394) if a Native American focus or topic is emphasized.

## PHILOSOPHY

The philosophy program has three missions: (1) to serve students in the colleges of Arts and Sciences, Business, and Professional Studies and Education with foundation courses and an applied philosophy minor with internship opportunities, (2) to provide all students with courses meeting

certain general education requirements, and (3) to provide advanced courses, a major, and a minor for those who want to specialize in philosophy.

Consistent with these missions, courses in philosophy are designed to enable students to increase the scope and depth of their understanding of and sensitivity to basic human beliefs and values, to think creatively and critically about enduring questions of human existence, to integrate the various fields of knowledge into a useful, meaningful whole, to frame their ideas into a justified system of beliefs that provides order and direction in life, to develop basic analytical and logical skills, and to acquaint themselves with the history of philosophy.

### Bachelor's Degree Program

The major in philosophy, leading to the Bachelor of Arts, is 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 (e.g., biomedical ethical consultant), to enter professional schools where a major in philosophy is suggested as a desirable option (e.g., law or the ministry), or to complement their primary major by adding a major in philosophy. The philosophy major requires a minimum number of courses in order to meet these diverse needs. The courses taken by students majoring in philosophy should be tailored to meet specific needs; close consultation with philosophy faculty can accomplish this purpose.

### The Major in Philosophy (30 semester hours)

PHI 165 Introduction to Logic

PHI 180 History of Classical and Medieval Philosophy

PHI 185 History of Modern and Contemporary Philosophy

One course in ethics from the following:

PHI 155 Introduction to Ethics

PHI 220 Health Care Ethics

PHI 302 Ethics and Science

PHI 307 Business Ethics

PHI 335 Great Traditions in Ethics

At least 12 semester hours in 300- and 400- level courses.

No more than 12 semester hours of 100-level courses may be applied toward satisfying requirements for the major.

## MINORS

### Philosophy

Requirements for a minor in philosophy are 21 semester hours in courses in philosophy including no more than 12 semester hours of 100-level courses.

### Applied Philosophy

Requirements for a minor in applied philosophy are 21 semester hours of courses in philosophy including Introduction to Philosophy (PHI 150); Introduction to Logic (PHI 165); 12 semester hours of relevant course options; and Applied Philosophy Internship (PHI 396). Relevant course options and applied philosophy internships are to be determined in consultation with a philosophy faculty member.

## RELIGIOUS STUDIES

Religious studies is the scholarly examination of the widespread and diverse phenomena of human religious experience, the expression of these experiences in systems of belief and in institutions, and their impact upon the 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, anthropology, sociology, history, geography, and literature.

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 of the relevant literature, vocabulary, and methods used in the scholarly study of religion. This sort



ground, conceptual understanding, social and cultural content, and philosophy.

## BACHELOR'S DEGREE PROGRAMS

Seven programs lead to a major in theatre at NKU:

Degree	Number of semester hours in theatre
BA	39
BFA	
Dance	68
Design and Technology	69
Acting	65
Musical Theatre	67
Stage Management	69
Playwriting	65

Students in the BA program must complete a minor or area of concentration. Students in all BFA programs are exempt from the minor or area of concentration requirement but are strongly encouraged to explore relevant coursework in art, music, dance, literature, and/or other disciplines as determined useful through consultation with a faculty adviser.

All BA and BFA theatre majors must take the following core curriculum:

TAR 101 Essentials of Theatre	3
TAR 110 Acting I	3
TAR 118 Stage Appearance	3
TAR 160 Stagecraft	2
TAR 160L Stagecraft Laboratory	1
TAR 340 Playscript Analysis	3
TAR 346 History of the Theatre and Dramatic Literature I	3
TAR 347 History of the Theatre and Dramatic Literature II	3
TAR 446 History of the Theater and Dramatic Literature III	3
TAR 447 History of the Theatre and Dramatic Literature IV	3
Production Credits	<u>3-4</u>
<b>Total</b>	<b>30-31</b>

In addition, all BFA theatre majors must take the following core curriculum:

TAR 477 Business of Theatre	1
TAR 495 Senior Project	<u>1</u>
<b>Total</b>	<b>2</b>

Production credits of 1 semester hour may be taken by any student at the University. However, students majoring or minoring in theatre arts must first complete Stagecraft (TAR 160) and the accompanying laboratory (TAR 160L) before enrolling in production credits. Requirements for the number of production credits vary from three to four, depending upon the specific degree undertaken. No more than one production credit per semester may be taken.

Remaining requirements are indicated in the chart below. Information concerning admission and performance standards may be obtained in the theatre office.

## COURSE GROUPINGS

### Theatre

All TAR (Theatre) courses are grouped and numbered in the following manner:

Group I	-10's Acting
	-20's Musical theatre
Group II	-40's Theatre history/Theory and criticism
Group III	-50's Theatre literature
Group IV	-60's Design and technology
Group V.	-70's Directing, management, creative dramatics
Group VI	-80's Playwriting
Group VII	-90's Production credit and independent study

### Dance

All DAN (Dance) technique classes are grouped and numbered in the following manner:

Group I	-20's Dance
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## THEATRE

### Course Offerings

TAR 100 Theatre Appreciation	3
TAR 101 Essentials of Theatre (for students who major or minor in theatre)	3
TAR 102 Survey of Race and Gender in Dramatic Literature	3
TAR 111 Creative Expression Through Acting	3
TAR 165 Comparative Arts	3

### Group I (Performance)

TAR 110 Acting I	3
TAR 114 Voice Development for the Actor I	3
TAR 118 Stage Appearance	3
TAR 210 Acting II	3
TAR 211 Special Topics in Theatre	1-3
TAR 213 Stage Combat I	3
TAR 225 Musical Theatre Performance I	3
TAR 310 Acting III	3
TAR 311 Auditions	3
TAR 313 Stage Combat II	3
TA R 316 Acting Seminar I	2-6
TAR 325 Musical Theatre Performance II	3
TAR 410 Styles of Acting	3
TAR 411 Special Problems in Theatre (Acting)	3-9
TAR 412 Internships in Professional Theatre	3-6
TAR 414 Tour Troupes	2
TAR 416 Acting Seminar II	2-6
TAR 417 Acting Shakespeare	3
TAR 418 Process and Production	4-8
TAR 425 Musical Theatre Performance III	3
TAR 610 Coaching of Acting for Teachers	3
DAN 120 Ballet I	3
DAN 220 Ballet II	3
DAN 221 Modern Dance I	3
DAN 222 Jazz Dance I	3
DAN 224 Tap Dance I	3
DAN 226 Foundation Seminar	2
DAN 227 Special Topics: Dance	2-6
DAN 321 Modern Dance II	3
DAN 322 Jazz Dance II	3
DAN 324 Tap Dance II	3
DAN 326 Advanced Dance Seminar II	2-6
DAN 321 Modern Dance II	3
DAN 322 Jazz Dance II	3
DAN 324 Tap Dance II	3
DAN 326 Advanced Dance Seminar II	2-6
DAN 375 Choreography	3
DAN 426 Advanced Dance Seminar II	2-6
DAN 428 Special Problems in Theatre (Dance)	3-9

### Group II (History, Theory, and Criticism)

TAR 340 Playscript Analysis	3
TAR 343 History of Costume and Decor I	3
TAR 346 History of the Theatre and Dramatic Literature I	3
TAR 347 History of the Theatre and Dramatic Literature II	3
DAN 427 Dance History	3
TAR 441 Special Problems in Theatre (History, Theory, and Criticism)	1-9
TAR 442 Dramatic Theory and Criticism	3
TAR 443 History of Costume and Decor II	3
TAR 446 History of the Theatre and Dramatic Literature III	3
TAR 447 History of the Theatre and Dramatic Literature IV	3



<i>Group III (Theatre Literature)</i>	
TAR 355 Musical Theatre Literature I	3
TAR 452 Special Problems in Theatre (Literature)	3-9
TAR 455 Musical Theatre Literature II	3
<i>Group IV (Theatre Design and Technology)</i>	
TAR 211 Special Topics: Theatre	1-3
TAR 160 Stagecraft I	2
TAR 160L Stagecraft Laboratory	1
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 Design	3
TAR 318 Advanced Makeup	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 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 460 Scene Design II	3
TAR 461 Scene Painting	3
TAR 462 Costume Design II	3
TAR 464 Special Problems in Theatre (Technology)	3-9
TAR 465 Advanced Lighting and Projections	3
TAR 466 Costume Construction II	3
TAR 468 Advanced Scenic Art	3
TAR 662 Technical Theatre for Teachers	3
<i>Group V (Directing, Management, and Creative Dramatics)</i>	
TAR 370 Directing I	3
TAR 371 Theatre Management	3
DAN 375 Choreography	3
TAR 376 Stage Management	3
TAR 470 Directing II	3
TAR 471 Summer Dinner Theatre	3-6
TAR 473 Creative Dramatics/Children's Theatre	3
TAR 474 Special Problems in Theatre (Directing and Management)	3-9
TAR 477 The Business of Theatre	1
TAR 670 Directing for Teachers	3
<i>Group VI (Playwriting and Reviewing)</i>	
TAR 380 Playwriting	3
TAR 480 Reviewing	3
TAR 481 Special Problems in Theatre (Playwriting and Criticism)	3-9
TAR 482 Screenwriting	3
<i>Group VII (Production Hours and Independent Study)</i>	
TAR 190-191, 290-291, 390-391, 490-491 Production Credits (1 semester hour each)	1
TAR 495 Senior Project	1
TAR 498-499 Independent Studies in Theatre	1-6
TAR 699 Individual Studies in Theatre	3-6

## REQUIREMENTS FOR SPECIFIC DEGREE PROGRAMS

### Bachelor of Arts in Theatre

TAR 101 Essentials of Theatre	3
TAR 110 Acting I	3
TAR 118 Stage Appearance	3
TAR 160 Stagecraft I	2
TAR 160L Stagecraft Lab	1
TAR 340 Playscript Analysis	3
TAR 346 History of the Theatre and Dramatic Literature I	3
TAR 347 History of the Theatre and Dramatic Literature II	3

TAR 446 History of the Theatre and Dramatic Literature III	3
TAR 447 History of the Theatre and Dramatic Literature IV	3
Production Credits	3
Electives in Groups I, IV, V, VI (performance, theatre design and technology, directing, management, creative dramatics, playwriting and reviewing)	9
Total	39

A minor or an area of concentration is required.



2003 Production "5 Women in the Same Dress" written by Alan Ball

### Bachelor of Fine Arts in Performance

#### Acting Emphasis

TAR 101 Essentials of Theatre	3
TAR 110 Acting I	3
TAR 114 Voice Development for the Actor I	3
TAR 118 Stage Appearance	3
TAR 160 Stagecraft I	2
TAR 160L Stagecraft Laboratory	1
TAR 210 Acting II	3
TAR 225 Musical Theatre Performance I	3
TAR 310 Acting III	3
TAR 312 Voice Development for the Actor II	3
TAR 340 Playscript Analysis	3
TAR 346 History of the Theatre and Dramatic Literature I	3
TAR 347 History of the Theatre and Dramatic Literature II	3
TAR 446 History of the Theatre and Dramatic Literature III	3
TAR 447 History of the Theatre and Dramatic Literature IV	3
TAR 477 The Business of Theatre	1
TAR 495 Senior Project	1
Production Credits	3
Electives in Groups I, IV, V, VI, VII - at least 3 semester hours must be in dance (performance, theatre design and technology, directing, management, creative dramatics, playwriting and reviewing, production hours, independent study)	18
Total	65

A minor or an area of concentration is not required.

#### Musical Theatre Emphasis

TAR 101 Essentials of Theatre	3
TAR 110 Acting I	3
TAR 114 Voice Development for the Actor I (with adviser approval, may be waived and substituted with TAR 312 Voice II or other upper-level voice course)	3

TAR 118 Stage Appearance	3
TAR 160 Stagecraft I	2
TAR 160L Stagecraft Laboratory	1
TAR 210 Acting II	3
TAR 225 Musical Theatre Performance I	3
TAR 325 Musical Theatre Performance II	3
TAR 340 Playscript Analysis	3
TAR 346 History of the Theatre and Dramatic Literature I	3
TAR 347 History of the Theatre and Dramatic Literature II	3
TAR 355 Musical Theatre Literature I	3
TAR 446 History of the Theatre and Dramatic Literature III	3
TAR 447 History of the Theatre and Dramatic Literature IV	3
TAR 455 Musical Theatre Literature II	3
TAR 477 The Business of Theatre	1
TAR 495 Senior Project	1
MUS 122 Theory I (students registering for Theory I will be given theory placement tests and may first have to take MUS 120 before being assigned to MUS 122)	3
MUS 124 Aural Skills I	1
Applied Voice in the Department of Music	4
Production Credits	3
Electives in Groups I, IV, V, VI, VII - at least 6 semester hours must be in dance and/or music (performance, theatre design and technology, directing, management, creative dramatics, playwriting and reviewing, production hours, independent study)	9
Total	67

A minor or an area of concentration is not required.

*Playwriting Emphasis*

TAR 101 Essentials of Theatre	3
TAR 110 Acting I	3
TAR 118 Stage Appearance	3
TAR 160 Stagecraft I	2
TAR 160L Stagecraft Laboratory	1
ENG 292 Creative Writing I	3
ENG 308 Shakespeare I	3
ENG 309 Shakespeare II	3
TAR 340 Playscript Analysis	3
TAR 346 History of the Theatre and Dramatic Literature I	3
TAR 347 History of the Theatre and Dramatic Literature II	3
ENG 300-497 Literature or Writing (not to include ENG 309, ENG 308, or ENG 491)	3
TAR 370 Directing I	3
TAR 380 Playwriting I	3
TAR 442 Dramatic Theory and Criticism	3
TAR 446 History of the Theatre and Dramatic Literature III	3
TAR 447 History of the Theatre and Dramatic Literature IV	3
TAR 477 The Business of Theatre	1
TAR 481 Special Problems in Theatre (Playwriting/Criticism)	3
TAR 482/ENG 491 Screenwriting	3
TAR 495 Senior Project	1
TAR 498 Independent Studies in Theatre	3
Production Credits	3
Electives in Groups I, II, III, IV, V, VI, VII (performance, history, theory, criticism, literature, theatre design and technology, directing, management, creative dramatics, playwriting and reviewing, production hours, independent study)	3
Total	65

A minor or an area of concentration is not required.

**Dance Emphasis**

TAR 101 Essentials	3
TAR 110 Acting I	3

TAR 118 Stage Appearance	3
TAR 160 Stagecraft	2
TAR 160L Stagecraft Lab	1
TAR 225 Musical Theatre I	3
TAR 340 Playscript Analysis	3
TAR 346 History of Theatre & Drama Literature I	3
TAR 347 History of Theatre & Drama Literature II	3
TAR 446 History of Theatre & Drama Literature III	3
TAR 447 History of Theatre & Drama Literature IV	3
TAR 477 Business of Theatre	1
TAR 495 Senior Project	1
Production Credits	3
DAN 120 Ballet	3
DAN 220 Ballet II	3
Choose one from DAN 222 Jazz I, DAN 221 Modern I, or DAN 224 Tap I	3
DAN 226 Foundations	2
Choose one from DAN 321 Modern II, DAN 322 Jazz II, or DAN 324 Tap II	3
DAN 326 Advanced Dance Seminar I	2
DAN 375 Choreography	3
DAN 426 Advanced Dance Seminar II	2
DAN 427 Dance History	3
PHE 370 Biomechanics	3
Electives from Group I, IV, V, VI	6
Total	68

A minor or area of concentration is not required for this degree.

**Bachelor of Fine Arts in Design or Technology**

TAR 101 Essentials of Theatre	3
TAR 110 Acting I	3
TAR 118 Stage Appearance	3
TAR 160 Stagecraft I	2
TAR 160L Stagecraft Laboratory	1
TAR 260 Lighting Fundamentals	3
TAR 265 Fundamentals of Theatrical Design	3
TAR 340 Playscript Analysis	3
TAR 343 History of Costume and Decor I	3
TAR 346 History of the Theatre and Dramatic Literature I	3
TAR 347 History of the Theatre and Dramatic Literature II	3
TAR 360 Scene Design I	3
TAR 363 Lighting Design I	3
TAR 366 Costume Design I	3
TAR 368 Theatrical Rendering and Model Building	3
TAR 443 History of Costume and Decor II	3
TAR 446 History of the Theatre and Dramatic Literature III	3
TAR 447 History of the Theatre and Dramatic Literature IV	3
TAR 477 Business of Theatre	1
TAR 495 Senior Project	1
Production Credits	4
Electives in Groups I, V, VI, VII (performance, directing, management, creative dramatics, playwriting and reviewing, production hours, independent study)	3
Electives in student's area of interest (theatre technology and design)	9
Total	69

A minor or area of concentration is not required, although students are encouraged to minor in art.

**Areas of Interests**

*Scene Design*

TAR 361 Design and Construction of Stage Properties	3
TAR 362 Drafting for the Theatre	3
TAR 460 Scene Design II	3
TAR 461 Scene Painting	3

TAR 468 Advanced Scenic Art	3	TAR 118 Stage Appearance	3
<i>Costume Design</i>		TAR 160 Stagecraft I	2
TAR 262 Costume Construction	2	TAR 160L Stagecraft Laboratory	1
TAR 262L Costume Construction Laboratory	1	TAR 265 Fundamentals of Theatrical Design	3
TAR 318 Advanced Makeup	3	Choose two from among	6
TAR 365 Costume Crafts	3	TAR 260 Lighting Fundamentals,	
TAR 462 Costume Design II	3	TAR 262/262L Costume Construction, TAR 277	
TAR 466 Costume Construction II	3	Fundamentals of Sound Technology	
<i>Lighting Design</i>		TAR 340 Playscript Analysis	3
TAR 318 Advanced Makeup	3	TAR 346 History of the Theatre and Dramatic Literature I	3
TAR 362 Drafting for the Theatre	3	TAR 347 History of the Theatre and Dramatic Literature II	3
TAR 461 Scene Painting	3	TAR 370 Directing I	3
TAR 465 Advanced Lighting and Projections	3	TAR 371 Theatre Management	3
<i>Sound Design</i>		TAR 376 Stage Management	3
TAR 277 Fundamentals of Sound Technology	3	TAR 446 History of the Theatre and Dramatic Literature III	3
TAR 377 Sound Design	3	TAR 447 History of the theatre and Dramatic Literature IV	3
MUS 120 Introduction to Music Theory	3	TAR 477 The Business of Theatre	1
MUS 130 Introduction to Music Literature	3	TAR 495 Senior Project	1
MUS 135 Class Piano for Non-Majors	3	Production Credits	4
MUS 146 Group Voice	3	HEA 135 Safety & First Aid	3
<i>Technology</i>		Choose one from among:	3
TAR 262 Costume Construction	2	MUS 120 Intro to Music Theory	
TAR 262L Costume Construction Laboratory	1	MUS 135 Class Piano for Non-Music Students	
TAR 361 Design and Construction of Stage Properties	3	Choose one from among:	3
TAR 362 Drafting for the Theatre	3	CSC 130 Intro to Microcomputers	
TAR 365 Costume Crafts	3	ACC 101 Intro to Accounting	
TAR 367 Stagecraft II	3	SPE 220 Interpersonal Communications	
TAR 376 Stage Management	3	Electives	9
TAR 461 Scene Painting	3	(strongly recommend TAR 210 - Acting II and/or TAR 225 -	
TAR 466 Costume Construction II	3	Musical Theatre Performance I and/or TAR 370 -	
TAR 468 Advanced Scenic Art	3	Stagecraft II and/or dance class)	
		<b>Total</b>	<b>69</b>

A minor or an area of concentration is not required.

### The Minors in Theatre and Dance

#### Theatre

TAR 101 Essentials of Theatre	3
TAR 111 Creative Expression Through Acting ( <i>or</i> TAR 110 Acting I)	3
TAR 160 Stagecraft I	2
TAR 160L Stagecraft Laboratory	1
TAR 190-191, 290-291, 390-391, 490-491 Production Credits (1 semester hour each)	2
Elective in theatre history, theory/criticism, or literature	3
Elective in theatre performance or design/technology	3
Electives in Groups I, II, III, IV, V, VI, and/or VII	6
<b>Total</b>	<b>23</b>

#### Dance

DAN 120 Ballet I	3
BIO 208 Human Anatomy and Physiology I <i>or</i> PHE 370 Biomechanics	4 3
DAN 220 Ballet II	3
DAN 221 Modern Dance I	3
DAN 222 Jazz Dance I ( <i>or</i> DAN 224 Tap Dance I)	3
DAN 321 Modern Dance II	3
DAN 375 Choreography	3
DAN 427 Dance History	3
<b>Total</b>	<b>24- 25</b>

An area of concentration can be earned in either theatre or dance in lieu of the minor, with approval of the Chair of Theatre.

### Bachelor of Fine Arts in Stage Management

TAR 101 Essentials of Theatre	3
TAR 110 Acting I	3



## Center for Applied Ecology

### FACULTY

Jerry Warner, *executive director*

Barry Dalton, *interim director*

Larry Brewer, Sean Doughert, Scott Fennell, Mark Leopold, Nancy Meyer, Matt Mullin, Kim Tromm

The Center for Applied Ecology is located at 510 Johns Hill Road, 859-442-4280. The Center is open Monday through Friday from 8:30 a.m. to 5:00 p.m.

Students with an interest in working at the Center are invited to visit and discuss prospects for employment with the staff. The Center recommends that these students provide the center with an application letter and résumé.

The Center is a university program, based in the College of Arts and Sciences, that focuses on environmental education, research, consulting, and community service for the northern Kentucky and greater Cincinnati region. Staff consists of professionals with educational backgrounds in science, engineering, and other similar disciplines and with extensive work experience in consulting, government, private industry, teaching, and research.

The mission is to provide four primary services to the University, to the northern Kentucky community, and to the surrounding region.

1. Center provides an educational and training forum for the students at Northern Kentucky University, relative to preparing the students to enter the environmental sciences and services work force.
2. Center provides an educational forum for the general public, associations, schools, private industry, and other institutions by increasing public awareness of the environment through lectures, seminars, workshops, public forums, discussions, newsletters, technical publications, and other means.
3. Center provides an avenue by which NKU faculty and center staff can conduct research and prepare publications, thus allowing University

to expand its base of knowledge and understanding of environmentally oriented issues and to increase its capabilities to address these issues.

4. Center provides technical and regulatory assistance to northern Kentucky and greater Cincinnati region to help meet environmental needs.

The Center is dedicated to reaching out to and working with the community by taking an unbiased approach to every issue that it addresses.

Undergraduate and graduate students who have an interest in environmental issues are provided an opportunity to obtain cross-disciplinary training at the Center that will allow them to better compete in the environmental careers market in the Northern Kentucky and Greater Cincinnati region, including private industry, government, consulting, teaching, and research.

The Center seeks to forge relationships with local and regional governments, schools (elementary and secondary), industries, citizens groups, and other organizations by working to provide innovative solutions to



environmental needs. Students who work at the Center are given the opportunity to play an active role in these partnerships by assisting the center's professional staff on a day-to-day basis.

## Military Programs

### AIR FORCE ROTC

The Department of the Air Force at the University of Cincinnati, in cooperation with NKU, provides the opportunity for qualified students to enroll in the Air Force Reserve Officer Training Corps (AFROTC) Commissioning program. Upon graduation and successful completion of the program, the student will be commissioned as an officer in the U.S. Air Force. The Air Force courses are taught on the NKU campus and may be taken through the Greater Cincinnati Consortium of Colleges and Universities. For further information on scholarships and the AFROTC program, contact the Department of the Air Force at the University of Cincinnati, 513-556-2237.

### ARMY ROTC

The Department of the Army/Military Science at Xavier University, Cincinnati, in cooperation with NKU provides the opportunity for any qualified student to enroll in the army's military science commissioning program. Military science classes are presented on the NKU campus. Upon graduation and successful completion of the military science program, students will be commissioned as second lieutenants in the U.S. Army. No obligation for military service is incurred during the first two years of the program. For information contact Army ROTC at NKU at 859-572-9888.

# INTERDISCIPLINARY STUDIES

Administrative support for interdisciplinary studies and experimental courses is currently being provided through the Office of the Dean of Arts and Sciences. These offerings 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 of their fluid nature, these programs often undergo revision, and students interested in them are encouraged to contact the program directors, or the academic departments in which the program is offered, for up-to-date information on program requirements, options, and courses.

## Interdisciplinary Majors

### ENVIRONMENTAL SCIENCE

Rebecca L. Evans, biological sciences, *director*

The Environmental Science Program at Northern Kentucky University is an interdisciplinary program that provides those interested in environmental careers with a strong background in Biology, Chemistry, Geology, Mathematics, and Physics. This multi-disciplinary background is combined with upper-division 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/externships 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, Physics and Geology departments, the Center for Integrative Natural Science and Mathematics (CINSAM), the Environmental Resource Management Center (ERMC), industry and government agencies. Students graduating with a B.S. in Environmental Science are well equipped to join the ranks of other environmental professionals working with local, state and federal agencies, consulting firms, or non-profit organizations. They are also qualified to become part of a research team or pursue graduate study of environmental sciences.

#### Bachelor of Science in Environmental Science

##### Required Courses

BIO 150-150L-150R	Introduction to Biology I	5
BIO 151-151L-151R	Introduction to Biology II	5
BIO 304	General Ecology	3
BIO 306	Ecology Laboratory	2
CHE 120-120L	General Chemistry I	4
CHE 121-121L	General Chemistry II	4
CHE 310-310L	Organic Chemistry I	4
CHE 311	Organic Chemistry II	3
CHE 440	Environmental Chemistry	3
ENV 110	Environmental Science and Issues	3
ENV 240	Information Resources in Env. Sci.	2
ENV 340	Principles of Environmental Research	2
ENV 400	Environmental Science Seminar	1
GLY 120	This Dangerous Earth	3
GLY 340	Intro. to Environmental Geoscience	3
GLY 450	Hydrogeology with Laboratory	4
MAT 120	Calculus I	5
MAT 314	Design and Analysis of Experiments I	3

PHY 211	General Physics with Laboratory I	5
PHY 213	General Physics with Laboratory II	5

One three hour Internship/Externship OR Directed Resource Course from following list.

BIO 492	Directed Research
BIO 496	Internship/Externship
CHE 492	Directed Research
ENV 396	Internship/Externship
ENV 492	Directed Research
GLY 392	Directed Research
GLY 492	Directed Research
GLY 496	Internship/Externship

#### Electives

Students are encouraged to choose additional electives from the following courses.

ANT 345	Environmental Anthropology
BIO 302-302L	General Microbiology with lab
BIO 410	Conservation Biology
BIO 422-422L	Limnology
BIO 474	Microbial Ecology
ENG 347	Technical Writing
ENV 350	Environmental Toxicology
ENV 380	Field and Laboratory Methods in Environmental Science
ENV 494	Topics: Environmental Science
GEO 108	Physical Geography
GEO 306	Environmental Resource Management
GEO 318	Geographic Information Systems
GLY 315	Structural Geology
GLY 330	Geomorphology
PSC 403	Public Policy

Note: Due to the integrative nature of this program and the number of courses taken in several areas (BIO, CHE, GLY), majors in Environmental Science will not be required to complete the requirements for an Area of Concentration or Minor.

### BACHELOR OF ARTS IN LIBERAL STUDIES

Barry Andersen, *associate dean, college of arts and sciences*

**Contact:** College of Arts and Sciences—859-572-5494

The Liberal Studies major in the College of Arts and Sciences provides the opportunity for students to pursue a broad-based education in the liberal arts and sciences. The major is designed for students who neither need nor desire the depth of study required in a focused, single discipline major.

#### The Liberal Studies major serves:

- "students who prefer a broader and more flexible approach to their college education than is offered by traditional majors.
- "students whose primary educational goals are their own overall intellectual and personal growth and enrichment.
- "adult learners who have interrupted their studies for a prolonged period and return with a different academic focus and career goal.
- transfer students whose prior work does not mesh well with existing programs of study at NKU.
- part-time students whose work schedules and other responsibilities preclude them from completing more structured majors.

- "students abandoning highly structured majors late in their undergraduate career.
- "part-time students whose work schedules and other responsibilities preclude them from completing more structured majors.
- "students abandoning highly structured majors late in their undergraduate career.

#### Curriculum:

- Students seeking the Bachelor of Arts degree in Liberal Studies must complete all NKU graduation requirements including:
- "general education requirements-to be completed within first 60 hours of college level work.
- "45 upper division hours
- "an area of concentration or a minor beyond the major

#### Bachelor of Arts in Liberal Studies

- Two areas of concentration or minor programs taken from disciplines within the College of Arts and Sciences. Each area of concentration or minor must be entirely within a single discipline.
- An additional area of concentration or minor taken from a discipline within the College of Arts and Sciences or in one of these related disciplines housed outside the college, such as, economics (ECO), journalism (JOU), and speech communications (SPE).

No course can be counted in more than one area of concentration or minor. With the approval of the Director of Liberal Studies programs, other established areas of concentration or minors may be substituted.

#### ASSOCIATE DEGREE IN LIBERAL STUDIES

Janis Cassiere, *assistant dean, college of arts and sciences*

The Associate Degree in Liberal Studies is designed to meet the needs of students who are looking for academic accreditation of their employment skills; students who want to study a specific area; and students who have a limited time to complete their college courses. Students can complete a four-year degree in two-year segments, using the Liberal Studies Degree option for the first two years.

#### ELIGIBILITY:

A student who wishes to declare a major for the Associate Degree in Liberal Studies offered by the College of Arts and Sciences is eligible if he/she has an undeclared status or has accrued less than 64 quality hours in a declared major program, is currently enrolled as an NKU student, and is in the process of fulfilling degree requirements.

#### DEGREE REQUIREMENTS

A student working toward the Associate Degree in Liberal Studies must fulfill the following requirements:

a minimum total of 64 semester hours, the last 20 of which must be taken at Northern.

#### GENERAL EDUCATION REQUIREMENTS

A minimum of 15 semester hours from one of the following areas of study with a minimum of 3 semester hours from two different disciplines within the chosen area of study. *No course taken to satisfy general education can be used to satisfy this requirement.*

#### Areas of study and their respective disciplines:

Natural Science: Astronomy, Biological Sciences, Integrated Science, Chemistry (except CHE 110), Physics, Geology

Fine Arts: Art, Music, Theatre

Humanities: Afro-American Studies, Foreign Language, History, English, Philosophy, Religious Studies, Women's Studies

Behavioral and Social Sciences: Anthropology, Geography,

Psychology, Sociology, Speech, Political Science  
Mathematics and Computer Science: Mathematics, Computer Science

A grade point-average (GPA) of at least 2.00 is required on all work attempted at NKU, and at least 2.00 on all college work attempted (excluding developmental coursework).

This degree cannot be counted as a minor or area of concentration.

#### INTERNATIONAL STUDIES

Linda L. Dolive, political science, *coordinator*

Both a major and a minor are offered in international studies. A student in either is required to take a modern foreign language through the intermediate level.

A major in international studies, in addition to the above requirement, consists of 36 semester hours, including 15 semester hours of required courses and 21 semester hours of electives. The electives can be taken in five different patterns depending on the preference and career plans of the student. For students intending to pursue business careers, the University offers a business option. Students interested in a general background may select the social sciences options. Students with an interest in a specific region of the world may choose among the Asian, European, and Latin American options; they should fulfill their modern language requirement by taking a corresponding language. Program would be of interest to students planning a career in the public sector/foreign service; in an international agency, or to students pursuing graduate work in international studies. All students are encouraged to consider study abroad.

Students who desire a more flexible curriculum can work out 21 semester hours of electives with the coordinator of international studies.

A minor in international studies consists of 21 semester hours, including the same 15 semester hours required of the major and 6 semester hours of elective courses chosen in consultation with the coordinator of international studies.

#### Required Courses (Major and Minor)

ANT 100 Cultural Anthropology

ECO 200 Principles of Macroeconomics

GEO 101 World Regional Geography

(or GEO 102 Geography of the World's "Developed" Regions

or GEO 103 Geography of the Third World)

PSC 102 Comparative Politics (or PSC 103 International Politics)

PSC 470 The Post Cold War

#### Elective Options (Course prerequisites, if any, must be met)

##### Asian Option

ART 104 Survey of Asian Art

GEO 410 Geography of Asia

HIS 330 History of China

HIS 331 History of Japan

PHI 250 Eastern Philosophy

PSC 362 Politics of Southeast Asia

##### Business Option

ACC 200 Principles of Accounting I - Financial

ACC 201 Principles of Accounting II - Managerial

ECO 201 Principles of Microeconomics

ECO 344 Comparative Economic Systems

ECO 340 International Economics

FIN 415 International Finance

FRE 250 Business French

GEO 303 Economic Geography

GER 250 Business German

MGT 360 Comparative International Management

OST 310 Inter-cultural Business Communications

PSC 410 Political Economy

SPI 250 Business Spanish

*European Studies Option*

FRE 310 French Culture and Society Today  
 FRE 311 French Cultural History  
 GEO 402 Geography of Europe  
 GER 310 Contemporary German Life  
 GER 311 German Cultural History  
 HIS 308 Modern Europe 1870-1920  
 HIS 309 Modern Europe since 1920  
 HIS 355 English History, 1760 to present  
 HIS 363 History of Germany since 1870  
 HIS 377 Modern Russia since 1855  
 HIS 413 History of Nazi Germany  
 PSC 330 Politics of Europe  
 SPI 310 Spanish Culture and Civilization

*Latin American Option*

ANT/SOC 245 Peoples of Latin America  
 ANT 360 Indians of Mexico and Guatemala  
 GEO 406 Geography of Latin America  
 HIS 325 Early Latin American History  
 HIS 326 Modern Latin American History  
 HIS 436 Race Relations in the Americas, c.1800 to Present  
 HIS 495 Nature and Development in Latin America  
 PSC 335 Latin American Politics  
 PSC 355 Comparative Revolutionary Politics

*Social Science Option*

ANT 210 World Cultures  
 ANT 240 Peoples of Africa  
 ANT 320 Religion and Culture  
 ANT 358 Anthropology and the Arts  
 GEO 302 Cultural Geography  
 GEO 310 Geography of Populations  
 GEO 403 Geography of Africa  
 HIS 321 Modernization in the Non-Western World  
 HIS 336 History of Modern Africa  
 HIS 423 Diplomacy and Foreign Policy of the United States  
 HIS 565 The Vietnam War  
 PHI 160 World Religions  
 PSC 338 U.S. Foreign Policy and the Developing World  
 PSC 366 Government and Politics in Africa  
 PSC 382 Canadian Politics and Policies  
 PSC 415 United States Foreign Policy  
 PSC 480 International Law  
 PSC 481 International Organizations  
 PSC 485 Comparative Foreign Policy

NOTE: Other courses carrying international studies credit will be listed in *Schedule of Classes* each semester and may be used as substitute electives on approval by the coordinator of international studies. In some of the above options, students should consider a summer term abroad.

## Interdisciplinary Minors

### AFRO-AMERICAN STUDIES

Michael Washington, history, *director*

Offered by the Department of History and Geography, the minor in Afro-American studies is a student-centered, community service project designed to provide students with an interdisciplinary perspective of the life of African Americans, Africans and African people throughout the diaspora and their contributions to humanity. Specifically, the program is designed to acquaint students with

1. the historical experience of Africans and African Americans from pre-colonial Africa to contemporary times;

2. contributions of Africans and African Americans to the humanities;
3. the study of the African American experience from a behavioral and/or social science perspective as well as contributions of Black people to these areas of study;
4. the influence of the African American experience in the fields of communications and/or social work.

To complete the minor, students must earn 24 semester hours of designated Afro-American studies courses with no more than 3 semester hours of directed readings or independent study. There are 12 semester hours required; of the remaining 12 semester hours, at least one course must be taken from each of the three required areas. At least a *C* must be achieved to earn credit for a course. Specific requirements for this minor are the following.

**Required Courses**

AFR 100 \*Introduction to Afro-American Studies  
 HIS 106 \*History of African American to 1877  
 HIS 107 \*History of African Americans since 1877  
 HIS 431 \*Historical Themes in African American History

**Required Areas****History Option**

HIS 310 Colonial American to 1763  
 HIS 313 Expansion and Conflict, 1828-1861  
 HIS 316 Modern United States History since 1939  
 HIS 317 History of the New South  
 HIS 318 Current Events in a Historical Perspective (*when applicable*)  
 HIS 325 Early Latin American History  
 HIS 335 History of Ancient Africa  
 HIS 336 History of Sub-Saharan Africa since 1870  
 HIS 380 History and Film (*when applicable*)  
 HIS 417 Civil War and Reconstruction, 1860-1877  
 HIS 426 Historical Geography of the United States  
 HIS 427 Urban History of the United States  
 HIS 435 History of Race Relations in the Americas, 1492-c.1800  
 HIS 436 History of Race Relations in the Americas, c.1800 to Present  
 HIS 438 African-American Women's History and Culture  
 HIS 444 History of Women in the United States to 1900  
 HIS 445 History of Women in the United States since 1900  
 HIS 496 Internships: Public History (*when applicable*)  
 HIS 499 Seminars (*when applicable*)  
 HIS 533 Expansion and Conflict  
 HIS 535 Civil War and Reconstruction  
 HIS 539 Modern United States History since 1939  
 HIS 546 History of the American Family  
 HIS 552 History of the Old South  
 HIS 553 History of the New South  
 HIS 556 African Americans in U.S. Culture, Education, and Politics  
 HIS 561 Modernization in the Non-Western World  
 HIS 594 Topics: History (*when applicable*)

**Behavioral and Social Sciences/Social Work Option**

ANT 240 \*Peoples of Africa  
 ANT 301 World Patterns of Race and Ethnicity  
 ANT 330 Women, Gender, and Culture, a Global Perspective  
 GEO 103 Geography of the Third World  
 GEO 309 Historical Geography of the United States  
 GEO 310 Geography of Population  
 GEO 403 Geography of Africa  
 GEO 492 Directed Research: Geography (*where applicable*)  
 GEO 594 Topics or Seminar: Geography (*where applicable*)  
 HNR 303 Honors Seminar: Humanity and the Imagination  
 HNR 306 Studies in Diversity  
 HSR 500 Multicultural Family Work: Principles and Practices  
 JUS 231 \*Race, Gender, and The Mass Media  
 JUS 318 The African American, The Law and The Courts

JUS 321 Black Women, Crime and Politics  
 PSC 215 Race, Gender, and Politics  
 PSC 338 U.S. Foreign Policy in the Developing World  
 RTV 105 \*Race, Gender, and The Mass Media  
 SOC 210 \*Analysis of Racism and Sexism in the United States  
 SOC 300 Race and Ethnic Relations  
 SOC 301 World Patterns of Race and Ethnicity  
 SWK 307 The Human Experience II: Literary Perspectives  
 SWK 308 Social Work Research (*when offered as Afrocentric Paradigm*)

### Humanities and Creative Productions/Communication Options

ENG 210 \*Survey of African American Literature  
 ENG 211 \*Survey of Women's Literature I  
 ENG 212 \*Survey of Women's Literature II  
 ENG 300 \*American Women Poets  
 ENG 305 \*American Women Writers  
 ENG 354 Southern Women Writers  
 ENG 394 \*Topics: African American Literature  
 MUS 107 \*Survey of African American Music  
 MUS 110 \*Appreciation of Jazz  
 MUS 254 Women in Music in Europe and America II: The 20th Century  
 PHI 394 Topics: Philosophy (where applicable)  
 REL 325 \*African American Religious Experience in America  
 REL 394 Topics Religious Studies (*when offered as The Ethics and Theology of Martin Luther King Jr., and Malcolm X*)  
 SPE 350 Rhetoric of Minority Groups  
 SPE 355 Cross-Cultural Communication  
 TAR 102 \* Survey of Race and Gender in Dramatic Literature  
 TAR 452 Special Problems in Theatre (literature) (*when applicable*)

\*these courses satisfy the general education requirements in the areas of History, Literature, Fine Arts, Social Sciences, Non-Western, or Race/Gender

All internships, independent study and directed reading courses must relate to the area of Afro-American studies and may be applied to the minor upon prior approval of the director.

Introduction to Afro-American Studies (AFR 100) fulfills the general education requirement in non-Western perspective or the general education requirements in either social sciences or race/gender.

## ENVIRONMENTAL STUDIES

Miriam S. Kannan, biological sciences, *director*

Offered by the Department of Biological Sciences, the minor in environmental studies is designed to provide students with a coherent academic program that is sensitive and responsive to current and projected environmental problems facing the human community 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.

The minor in environmental studies consists of 22 semester hours including 10 semester hours of required courses and 12 semester hours of elective courses. The required courses, to be taken in sequence if possible, are: Human Ecology (BIO 123); Ecological Anthropology (ANT 317); or Environment, Technology, and Human Values (PHI 230); Public Policy (PSC 403); and a senior-level seminar. Elective courses may be chosen from the following:

ANT 345 Environmental Anthropology  
 BIO 304 General Ecology  
 BIO 306 Ecology Laboratory  
 CHE 100-100L Chemistry and Society  
 GEO 302 Cultural Geography  
 GEO 303 Economic Geography

GEO 306 Environmental Resource Management  
 GEO 308 Climatology  
 GLY 115 The Changing Earth with Lab  
 HIS 314 Rise of Industrial United States, 1865-1900  
 IET 260 Industrial Environmental Control  
 IET 323 Land Planning and Development  
 IET 423 Planning and Design of Industrial Facilities  
 PHI 230 Environment, Technology, and Human Values  
 SOC 340 Population  
 SOC 355 Sociology and the Environment

## HEALTH CARE

James F. Hopgood, anthropology, *director*

The minor in health care consists of 23 semester hours, including 11 semester hours of core courses, 6 semester hours from the sociology or psychology option, and 6 semester hours of elective courses.

### Core Courses

BIO 208 Human Anatomy and Physiology I  
 BIO 208L Human anatomy and Physiology I: Laboratory  
 BIO 209 Human Anatomy and Physiology II  
 BIO 209L Human Anatomy and Physiology II: Laboratory  
 PHI 220 Health Care Ethics

### Psychology Option

PSY 100 Introduction to Psychology  
 PSY 220 Lifespan Development

### Sociology Option

SOC 100 Introductory Sociology  
 SOC 213 Sociology of Aging

Students taking the psychology option may choose electives from psychology, human services/mental health, or philosophy; students taking the sociology option may choose from sociology, human services/mental health, or philosophy; those taking EDU 300 Human Growth and Development instead of PSY 220 may choose electives from human services/mental health or philosophy.

### Electives

Human Services/Mental Health (3 semester hours each)  
 HSR 300 Contemporary Issues in Mental Health  
 HSR 314 Death, Dying and Grief  
 HSR 340 Alcoholism: Issues and Intervention  
 Philosophy (3 semester hours each)  
 PHI 303 Philosophy and Psychotherapy  
 PHI 311 Philosophy of Women  
 PHI 370 Ethics and the Nursing Profession

Psychology (3 semester hours each)  
 PSY 320 Psychology of Adult Development  
 PSY 333 Abnormal Psychology  
 PSY 340 Social Psychology  
 PSY 405 Counseling Psychology

Sociology (3 semester hours each)  
 SOC 303 Social Psychology  
 SOC 315 Marriage and the Family  
 SOC 450 Medical Sociology

## INTERNATIONAL STUDIES MINOR

Linda L. Dolive, political science, *coordinator*

Both a major and a minor are offered in international studies. A student in either is required to take a modern foreign language through the intermediate level.



A minor in international studies consists of 21 semester hours, including the same 15 semester hours required of the major and 6 semester hours of elective courses chosen in consultation with the coordinator of international studies. See International Studies Major for requirements.

## JAPANESE STUDIES

Linda L. Dolive, political science, *coordinator*

The minor in Japanese studies offers students the opportunity for a detailed examination of various aspects of the Japanese people and their activities. The program, selected from several disciplines, provides a broad appreciation of a nation and culture of great and growing significance in world affairs. To complete the minor, students must earn a total of 26 semester hours selected from the following.

- ANT 362 Japanese Culture and Society
- ART 359 Arts and Crafts of Japan
- ENG 294 Topics in non-Western Literature (Japanese Option)
- HIS 331 History of Japan
- JPN 101 Elementary Japanese I
- JPN 102 Elementary Japanese II
- JPN 201 Intermediate Japanese I
- JPN 202 Intermediate Japanese II
- PHI 310 The Japanese Mind

## LATIN AMERICAN AND CARIBBEAN STUDIES

Adalberto J. Pinelo, political science, *coordinator*

Through the political science program, NKU offers an undergraduate minor in Latin American Studies. This minor enables students to develop an integrated understanding of the history, culture, and politics of Latin America. Students entering the program can pursue any major and at graduation will receive a certificate attesting to successful completion of the program.

The requirement for this minor is 21 semester hours, including one Latin American course each from political science, history, geography, and anthropology, plus 9 additional semester hours of elective courses dealing with Latin America or with the Spanish language.

All students pursuing this minor should acquire some competence in Spanish. Questions regarding the minor can be addressed to the coordinator.

The following courses may be applied toward the minor in Latin American studies.

- Anthropology
  - ANT 245 Peoples of Latin America
  - ANT 352 Archaeology of Mexico and Guatemala
  - ANT 360 Indians of Mexico and Guatemala
- Geography
  - GEO 406 Geography of Latin America
- History
  - HIS 325 Early Latin American History
  - HIS 326 Recent Latin American History
- Political Science
  - PSC 335 Latin American Politics
  - PSC 355 Comparative Revolutionary Politics
- Sociology
  - SOC 245 Latin American Studies
- Spanish
  - SPI 101 Elementary Spanish I
  - SPI 102 Elementary Spanish II
  - SPI 201 Intermediate Spanish I
  - SPI 202 Intermediate Spanish II
  - SPI 250 Business Spanish
  - SPI 311 Spanish-American Culture and Civilization
  - SPI 321 Survey of Spanish-American Literature
  - SPI 499 Independent Study of Spanish

## LEGAL STUDIES

J. Michael Thomson, political science, *director*

Offered by the Department of Political Science and Criminal Justice, the minor in legal studies provides a coherent grouping of courses in the foundations and applications of the law. Specifically, the program is designed to acquaint students with:

1. different approaches to the study of law, including philosophical, sociological, political, and historical;
2. the elements of legal reasoning;
3. a body of case law in substantive areas;
4. the functions and effects of law in American society.

Students majoring in subjects such as business administration, economics, political science, public administration, and sociology may take legal studies as a supplement to their major field. Other students who major in non-law-related fields and who apply to law school might want some exposure to legal courses before pursuing their professional education. Note, however, that the minor in legal studies is neither a prerequisite nor a stepping-stone for admission to law school.

The legal studies minor is divided into four course-categories. Students are required to take the stipulated number of hours in each category to fulfill 21 semester hours. Twelve of the 21 semester hours must be taken at the 300-level and above.

### Introduction

PSC 304 Introduction to the Law

### Theory and Methods (9 semester hours required)

HIS 598 Anglo-American Legal History  
 PHI 330 Philosophy and Law  
 PSC 305 The Judicial Process  
 SOC 490 Sociology of Law

### Law and Society (3-6 semester hours required)

JOU 385 Law of Mass Communications  
 PSC 307 Constitutional Law  
 PSC 308 Civil Liberties  
 PSC 480 International Law and Organizations  
 SOC 202 Juvenile Delinquency  
 SOC 203 Sociology of Corrections  
 SOC 305 Criminology  
 SOC 380 Elite Deviance

### Applications (3-6 semester hours required)

AVA 210 Aviation Laws and Regulations  
 BUS 230 Business Law  
 ENG 345 Legal Writing  
 LAS 302 Contract Administration and Dispute Settlement  
 LAS 303 Labor Law  
 LAS 320 Problems in Labor Law  
 LEN 202 Criminal Law  
 LEN 204 Criminal Investigation  
 RES 200 Real Estate Law

## MEDIEVAL STUDIES

Paul F. Reichardt, English, *coordinator*

The minor in medieval studies is historical in perspective with emphasis on cultures and civilizations of western Europe from the fifth to the fifteenth 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 studies minor introduces students to methods, materials, and texts reflecting the human

dimension of medieval cultures and the living heritage of medieval cultures in modern civilization.

The minor in medieval studies requires completion of 24 semester hours in designated courses. MDS 201 and MDS 401 are required, and the remaining 18 semester hours must be selected from three disciplines and must include at least one semester of the study of Latin.

#### **Required Courses**

MDS 201 Introduction to Medieval Studies  
MDS 401 Medieval Studies Seminar

#### **Elective Courses**

ART 101 Survey of Western Art I  
ART 102 Survey of Western Art II  
ART 351 Medieval Art  
ENG 401 Chaucer  
ENG 402 Middle English Literature  
ENG 403 Old English  
ENG 590 Studies in Literature (if medieval topic)  
HIS 303 Europe in the Middle Ages  
HIS 353 English History to 1485  
HIS 442 History through Biography (if medieval topic)  
HIS 499 Directed Readings: European History (if medieval topic)  
LAT 101 Elementary Latin I  
LAT 102 Elementary Latin II  
LAT 201 Intermediate Latin I  
LAT 202 Intermediate Latin II  
LAT 290 Topics in Latin Language and Literature  
MUS 230 History of Music I  
PHI 180 History of Classical and Medieval Philosophy  
PSC 370 Early Political Theory

## **SOCIAL JUSTICE STUDIES**

Willie Elliott, social work and human services, *coordinator*

Social Justice is an interdisciplinary area of study that focuses on issues of equity and fairness in the distribution of power, privilege, and resources in human societies. Issues in social justice can include any of the differences that have been used to divide members of society and distribute the basic elements of human existence on an unequal basis. Issues may include, but are not limited to, race, sex, class, ethnicity, gender identity, and age. Courses not only explore violations of social justice, but also examine reactions to these violations and seek out ways to resolve them.

#### **Requirements for the Minor in Social Justice Studies:**

The minor requires that students complete a minimum 21 hours in courses focusing on Social Justice. In completing this requirement students must take:

SWK 394 Topics in Social Work: Social Justice  
A minimum of 3 hours in each of the 3 subfields of study listed below. Though some courses may appear in more than one category, a course may only be counted toward the distribution requirement in one subfield.  
9 additional semester hours drawn from any of the subfields.

**Subfield: American Studies** (Examining issues for people in the Americas)

AFR 310 Afro American Law and the Courts  
ANT 231 Modern American Indians  
ANT 360 Indians of Mexico and Guatemala  
ENG 210 Survey of African American Literature  
GEO 309 Historical Geography of the United States  
HIS 325 Colonial Latin America  
HIS 326 Recent Latin America  
HIS 431 Historical Themes in African American History  
HNR 302 Humanity and Society (if focus is in the Americas)

HNR 306 Studies in Diversity (if focus is in the Americas)  
REL 325 African American Religious Experience  
RTV 325 Popular Culture and Mass Media  
SWK 494 Multicultural Issues in Early Childhood Settings  
SOC 205 Current Social Issues  
SOC 300 Race and Ethnic Relations

**Subfield: World Studies** (Examining issues for people throughout the world)

ANT 275 Language and Communication  
ANT 301 World Patterns of Race and Ethnicity  
GEO 310 Geography of Population  
GEO 410 Geography of Asia  
HIS 336 Africa Since 1870  
HIS 413 History of Nazi Germany  
HIS 414 The Holocaust  
HNR 302 Humanity and Society (if focus is global)  
HNR 306 Studies in Diversity (if focus is global)  
PHI 323 Peace and War  
PHI 325 Philosophy of Nonviolence  
SOC 301 World Patterns of Race and Ethnicity

**Subfield: Gender Studies** (Examining issues based on sex, sexuality, and sex roles)

HIS 444 History of Women in the United States to 1900  
HIS 445 History of Women in the United States since 1900  
HNR 306 Studies in Diversity (if focus gender-based diversity)  
SOC 210 Analysis of Race and Gender  
WMS 310 Women, Wages, and Work  
WMS 381 Women and Literature (with approval)  
WMS 382 Women and Society (with approval)  
WMS 383 Women and World Cultures (with approval)  
WMS 386 Women and the Law (with approval)

9 additional semester hours drawn from any of the subfields.

Courses taught with rotating topics, such as WMS 381 or HNR 302, and special topics courses listed under departmental headings, such as ANT 394 Topics in Anthropology, may also count toward the minor. Such courses must be approved by the director. Approval for the minor will be based on course content and pedagogy.

Students may also apply any of the courses approved for the certificate (listed below) towards the completion of the 21 hours for the minor. Topics for student research and/or student placement for field experience must be related to issues of social justice and approved by the director.

#### **Requirements for the Certificate in Social Justice Studies**

In order to be eligible for a formal certificate in Social Justice Studies a Student must complete the following requirements:

Complete all requirements of the minor

Complete an approved 1-hour course of Independent Study by participating in the People's Institute For Freedom and Beyond. This weekend seminar, held annually on campus, provides students with training in community-based social justice work.

Complete a course requiring a minimum of 40 hours of Community Action/Experiential Learning drawn from the list below.

ANT 325 Applied Anthropology  
ANT 461 Research Practicum  
SOC 322 Applied Sociology  
SOC 461 Research Practicum  
SWK 105 Community Experience in the Social Services  
SWK 306 Field instruction I  
SWK 405 Social Work Practice: Community Organization

Students should be aware that some courses have prerequisites and/or corequisites that students may have to meet. No student should assume that these requirements would be waived. Research topics and placements for field experiences must be related to issues of social justice and approved by the director.

**Program Goals for Social Justice Studies**

1. To develop an understanding and appreciation for diversity with equity.
2. To develop an awareness of how social justice relates to every academic discipline
3. To be able to analyze the historical antecedents of racism and other forms of oppression, and the patterns and processes of power, priv-

ilege and social inequality.

4. For students to understand their responsibilities and commitment to social justice, social reform, and advocacy both historically and in contemporary times.
5. To integrate theoretical and empirical knowledge of oppressed groups into effective social justice strategies.
6. To demonstrate increased critical self-awareness of one's role and responsibility to achieve a just society.
7. To identify ethical dilemmas and anti-racist strategies implicated in the resolution of social inequity.



# THE COLLEGE OF BUSINESS

## DEPARTMENTS

Accountancy, Economics and Finance, Information Systems, Management and Marketing

## CONTACTING THE COLLEGE OF BUSINESS

The College of Business is located in BEP 401 and may be reached during business hours by phone at 859-572-5165. Interested persons are invited to browse the college's website at <http://www.nku.edu/~cob>.

Dr. Michael Carrell, *Dean* [carrellm@nku.edu](mailto:carrellm@nku.edu)  
 Dr. Margaret Myers, *Associate Dean* [myersm@nku.edu](mailto:myersm@nku.edu)

Inquiries about College of Business undergraduate programs and advising questions are directed to the College of Business Advising Center. The College of Business Advising Center is located in BEP 463, 859-572-6134, <http://www.nku.edu/~cobadvising>.

## PROGRAMS OFFERED BY THE COLLEGE OF BUSINESS

### Bachelor of Science

Accounting  
 Business Administration  
 Economics  
 Finance  
 Information Systems  
 Management  
 Marketing  
 Sports Business

### Associate of Applied Science

Pre-Business Studies

### Minors

Business Administration  
 Economics  
 Entrepreneurship Studies  
 Finance  
 Information Systems  
 Management  
 Marketing

### Master of Accountancy

### Master of Business Administration

#### *Areas of specialization*

Business Administration  
 Entrepreneurship  
 Finance  
 Information Systems  
 International Business  
 Marketing  
 Project Management

### Masters of Science in Information Systems

### Juris Doctor/Master of Business Administration

## VISION, MISSION, AND GOALS OF THE COLLEGE OF BUSINESS

### Our Vision

The College of Business seeks to enrich the lives of its students and help transform its communities.

### Our Mission

Our primary mission is to educate undergraduate students from the Northern Kentucky/Greater Cincinnati metropolitan region to perform effectively and ethically in a global environment as professionals in business, public, and social enterprises. We seek greater diversity in the students recruited to our degree programs. We place on-going emphasis on the growth and quality of our graduate programs.

We will leverage the partnerships between students, faculty, and the community to continuously improve the educational experience of our students and to enhance the integration of scholarship and service to classroom learning.

### Our Values

#### *Learner-Centered*

- We place the learner at the center of all our educational experiences
- We discover, interpret, and apply information in order to transmit knowledge to our learners

#### *Civic Engagement*

- We establish partnerships between our students, communities, and faculty
- We integrate scholarship and service learning
- We use our partnerships, scholarship and service learning to transform our communities

#### *Academic Freedom*

- We encourage the open expression of ideas
- We are committed to intellectual and creative freedom
- We support innovative approaches to meeting our vision and mission

#### *Integrity*

- We make every effort to do the right thing
- We are committed to being honest in our dealings with our colleagues and stakeholders
- We align our actions and decisions with NKU's Core Values

## ACCREDITATION

All degree programs offered in the College of Business are fully accredited by the *AACSB International*—The Association to Advance Collegiate Schools of Business. AACSB is the internationally recognized accrediting agency for business programs. Only 452 programs within the United States and 46 collegiate business programs in other countries are accredited by AACSB. Accreditation involves standards of excellence in the curriculum, faculty, students, facilities, and overall business programs. Business courses completed by students from NKU are transferable to other accredited programs throughout the world.

## DEGREE PROGRAMS

Business degree programs in the College of Business are professional programs designed to prepare graduates for lifelong careers in a variety of business fields. The coursework and related available educational experiences prepare graduates in three ways for the opportunities, challenges, and responsibilities they will encounter in the business world. First, graduates are to assume a place in society as aware, mature people who are comfortable with change and comfortable with enduring values and wisdom by completing a strong and varied general education curriculum. Second, graduates are prepared to understand and appreciate the context within which their work takes place by completing a solid and diverse basic business curriculum. And third, graduates are prepared to enter suc-

cessfully their chosen fields and to cope effectively with changes that are likely to take place over time by completing a well-planned and intense major curriculum.

The College awards the degree of Bachelor of Science upon successful completion of bachelor's requirements because there is considerable emphasis upon quantitative analysis in the various business courses required. The degree granted for successful completion of an associate program is an Associate of Applied Science.

The College of Business offers eight bachelor's degree programs, one associate degree program, and seven minors, described in the following pages. The College of Business also offers the following graduate degrees: Master of Accountancy, Master of Business Administration, Master of Science in Information Systems, and the Juris Doctor/Master of Business Administration.

## DECLARING A MAJOR IN THE COLLEGE OF BUSINESS

The College of Business has selective admissions for its Bachelor of Science degree programs in business. When students meet these selective admissions criteria, they may certify their major. Selective admission requirements differ slightly among majors. Please see major requirements, listed elsewhere in this catalog, for specific information.

Students who have not yet been certified for a major (i.e., have not yet met the selective admissions criteria for a major) are encouraged to declare a "pre-major" in the College of Business. Students may declare a pre-major in one of the seven business discipline areas in which bachelor's degrees are offered (accounting, business administration, finance, information systems, management, marketing and sports business). These pre-majors give students the opportunity to be advised and to explore academic options.

Declaring a pre-major does not prevent a change of major after selective admission requirements are met. However, additional course requirements for the new major may need to be completed.

Students who wish to pursue a degree in the College of Business, but are uncertain of a major, are encouraged to declare a pre-major called "Undeclared in the College of Business." This pre-major offers students the opportunity to receive academic advising from the College of Business Advising Center while exploring degree options within the college.

## COLLEGE-WIDE REQUIREMENTS

Students must meet all current course and class-standing prerequisites before enrolling in any College of Business course. This policy applies to non-business students, transient students, non-degree seeking students, and business students. Students who complete prerequisite courses at institutions other than Northern Kentucky University will be required to provide documentation of the courses taken. Students lacking prerequisites in any course will be administratively withdrawn from that course.

Students majoring in bachelor's program in a business discipline must have completed all selective admission requirements and must have certified a major before enrolling in any 400-level course in the college.

Students majoring in a business discipline must complete at least 64 semester hours in courses *outside* the College of Business. ECO 200 and ECO 201 count as non-business courses for this requirement. Transfer students must complete at least 50% of the required business courses and 50% of the major coursework at Northern Kentucky University.

Additionally, students are required to complete at least 45 semester hours of upper-division (300-400 level) courses for graduation.

Successful completion of IFS 300 as part of the minor in business administration simultaneously fulfills NKU's computer literacy graduation requirement for students majoring in the College of Business.

## ASSOCIATE DEGREE PROGRAM

### Pre-Business Studies (66 semester hours)

The associate degree program is designed to provide a consistency between it and the preparation students require to pursue any of the business bachelor's degree curricula in the College of Business. Students must

fulfill the associate degree general studies component (see elsewhere in this catalog) and complete a minimum of 66 semester hours of coursework outlined below.

### Core Requirements

IFS 105 Introduction to Business Computing  
ACC 200 Principles of Accounting I – Financial  
ACC 201 Principles of Accounting II - Managerial  
BUS 230 Legal Environment  
ECO 200 Principles of Macroeconomics  
ECO 201 Principles of Microeconomics  
MGT 205 Introduction to Business and Management

### General Education Requirements

ENG 101 College Writing  
SPE 101 Principles of Speech Communication  
MAT 111 Introductory Linear Mathematics  
ENG 291 Advanced Writing  
MAT 212 Statistics for Business Applications I  
One course from humanities/fine arts component  
One course from natural sciences component  
One course from social or behavioral sciences component

### Electives

Students should select general education courses and electives that fit into the bachelor's degree requirements for business majors. Advising is available in the College of Business to assist students in making these choices.

## MINORS

### The Minor in Business Administration

The minor in business administration is available to students whose major is outside the College of Business. It is required for the following bachelor's degrees in the College of Business: Accountancy, Business Administration, Finance, Information Systems, Management, Marketing, and Sports Business.

ACC 200 Principles of Accounting I - Financial  
ACC 201 Principles of Accounting II - Managerial  
BUS 230 Legal Environment  
ECO 200 Principles of Macroeconomics  
ECO 201 Principles of Microeconomics  
FIN 305 Principles of Finance  
IFS 300 Management Information Systems  
MGT 305 Operations Management in Business  
MKT 305 Principles of Marketing

(Note: MAT 111 Introductory Linear Mathematics and MAT 212 Statistics for Business Applications I are prerequisites for one or more courses in the minor in business administration.)

### The Minor in Entrepreneurial Studies

The focus of the minor in Entrepreneurial Studies is on generating ideas based on creativity, opportunity identification, feasibility studies, start-up activities, early stage strategies, and new initiatives within corporate environments. Students have unique opportunities to be involved in business partnerships and to find creative solutions to real business problems while completing their degrees. The minor in Entrepreneurial Studies consists of at least 21 semester hours.

#### Level 1 (pre-requisites for all entrepreneurship courses)

ENTP/ACC 150 Overview of Accounting (or ACC 200 and ACC 201)  
MGT 205 Introduction to Business and Management

ENTP 300 New Venture Creation

#### Level 2 (1 requirement and 1 elective)

ENTP 333 New Venture Management (required)

#### Elective Courses in Entrepreneurship – Select one

ENTP 375 Marketing Strategies for Entrepreneurial Businesses  
ENTP 376 New Venture Financing  
ENTP 377 Family Business Management  
ENTP 378 Emerging Enterprise Law

- ENTP 405 Corporate Entrepreneurship  
*Level 3 (required)*  
 ENTP 496 Entrepreneurial Internship  
 ENTP 497 Senior Portfolio: Writing the Business Plan

### Other Minors in the College of Business

Minors in economics, finance, information systems, management, and marketing are described in respective sections below.

## AFFILIATIONS

### Fifth Third Bank Entrepreneurship Institute

The mission of the Fifth Third Bank Entrepreneurship Institute is to serve the northern region of Kentucky by maximizing learning opportunities for entrepreneurially inclined students by: providing an entrepreneurship curriculum at the undergraduate and graduate levels; conducting applied research on topics relevant and useful to practicing entrepreneurs; and serving as a comprehensive and valued resource for students, faculty, and the regional business community. Entrepreneurship, creating value through innovation, is one of the fastest growing subjects in today's business schools. A number of factors are driving this interest; however, the primary force is the desire and need to compete creatively in both large and small firms. The focus of the academic programs in the Fifth Third Bank Entrepreneurship Institute is on generating ideas based on creativity, opportunity identification, feasibility studies, start-up activities and early stage strategies; and sound business practices and new initiatives within corporate environments.

The outreach programs of the Entrepreneurship Institute capitalize on the expertise of NKU faculty and staff, the insight and counsel of nationally known experts, and exciting external market opportunities. These programs are intended to serve the assistance and educational needs of entrepreneurs in a variety of environments: small businesses (<\$5M in annual revenues), closely held businesses (>\$5M), not-for-profits, public corporations, intrapreneurial units of Fortune 500 corporations, and future entrepreneurs in the region and in the NKU student body.

### Small Business Development Center

The Small Business Development Center was established to further economic development in the region by fostering the creation and growth of viable small enterprises. The Center provides a wide variety of professional consulting and training services to small business owners and prospective small business owners in the Northern Kentucky and Greater Cincinnati metropolitan area. In a typical year the center staff will provide assistance to several thousand individuals through free, confidential consulting, classroom seminars, and telephone clearinghouse services.

### Center for Economic Education

The Center for Economic Education was established to improve the quality and quantity of economic instruction at all grade levels and to promote economic literacy in the community. The Center actively serves the eight-county service area through an extensive schedule of professional development programs for K12 teachers, graduate credit courses, curriculum consultation with teachers and schools, research activities, and an extensive free-loan library.

### Marketing Research Partnership Program

The Department of Management and Marketing launched the Marketing Research Partnership Program (MRP<sup>2</sup>) in August, 2001. The primary objectives of the program are to develop co-op/internship programs, give local research companies the opportunity to interact with students via our marketing research courses and the marketing club, and ultimately to match quality students with local research firms for full-time employment.

The Department of Management and Marketing has a rich tradition of emphasizing marketing research in our curriculum having conducted over 150 studies for local businesses in the past 10 years. Current membership in the program includes the following research companies: Con-

vergys; Burke; MRSI; AC Nielsen BASES; Directions; SIRS; AC Nielsen Market Decisions; Cooper Research; and Alliance Research.

### College of Business Advisory Council

The College of Business receives continuing oversight and direction from the Business Advisory Council. The members include: Carl Allison, Libertas Technologies; Richard Buddeke, Barge Exchange; Randy Coe, Kosair Charities; John C. Court, Flying Start Ventures; Kevin E. Cranley, The Willis Music Company; Bob Gepfert, Arden Technical Training; Thomas A. Gill, Tom Gill Chevrolet; Roger D. Griggs, Union Springs, LLC; Jeffrey Groob, Groob Turnaround and Growth Partners; B. Stephen Harper, Harper Oil Products, Inc.; Marc A. Hoffman, St. Elizabeth Medical Center; Vivian Llambi, Vivian Llambi and Associates, Inc.; Jamey L. Lykins, Toyota Motor Manufacturing North America Inc.; Daragh L. Porter, Ashland Inc.; Timothy P. Rawe, Fifth Third Bank; Donna L. Robichaud, Cinergy Solutions; William (Bill) M. Schuler, Castellini Company; Kelly Swartz, Citicorp Credit Services, Inc.; Ronald L. Tatham, Burke Incorporated; Eric R. (Rick) Thiemann, Hunkar Laboratories; Mike Vogt, Mazak Corporation.

## COLLEGE OF BUSINESS HONORARY ORGANIZATIONS FOR STUDENTS

### *Beta Gamma Sigma*

Beta Gamma Sigma is the national honorary society that recognizes excellence in academic achievement in schools of business administration. Beta Gamma Sigma was founded in 1907 to encourage and reward scholarship and accomplishment in the field of business studies, to promote advancement of education in the science of business, and to foster principles of honesty and integrity in business practice. Students are initiated into Beta Gamma Sigma once a year. Only schools of business accredited by *AACSB International* are permitted to establish chapters.

### *Nu Kappa Alpha*

Nu Kappa Alpha is the accounting honorary society. It is responsible for the spring semester Accounting Banquet and service activities to the department and the profession. Criteria for membership in the society is a 3.00 GPA in the major and a 3.00 GPA overall.

## PROFESSIONAL ORGANIZATIONS FOR BUSINESS STUDENTS

### *NKU Chapter of the Institute of Management Accountants (IMA)*

Membership in the IMA Accounting Club exposes students to the wide variety of careers available in accounting and provides opportunities to network with practitioners. The club is committed to community service and to providing opportunities for students to develop leadership skills.

### *American Marketing Association--NKU Chapter*

The NKU Chapter of the AMA is open to all students and all majors. The club helps students understand the wide range of careers available in the field of marketing. Guest speakers and networking are some of the benefits of membership.

### *Phi Beta Lambda (PBL)*

PBL is a professional business organization for postsecondary students. It provides traditional and nontraditional students the opportunity to enhance their education by participating in various local and national chapter activities such as workshops, conferences, and competitive events.

### *NKU Chapter of the Data Processing Management Association: Students of Information Systems (SIS)*

The mission of SIS is to provide students with the necessary skills and contacts to function as professionals in today's information society. Leadership experiences, outings and tours, and presentations by information systems professionals are among the activities sponsored.

*Economics Club*

The mission of the Economics Club is to promote the discipline of economics in terms of its application in real life situations, to create a fuller understanding of economics and its importance in public/private sector market dynamics. Membership is open to students in all majors.

*NKU Finance Student Association*

The Finance Student Association promotes a better understanding of finance and provides a means to enrich business students with information regarding career opportunities through a variety of educational trips, guest speakers, and social activities. The mission of the club is to inform, educate, and enhance the classroom learning experience. Membership is open to all students majoring in prebusiness and business.

## Accountancy Department

**FACULTY**

Linda M. Marquis, *chair*  
Glenellyn J. Barty, Rita J. Czaja, Philip A. Lewis, Lorraine E. Ruh, Peter M. Theuri, Leslie D. Turner, Andrea Weickgenannt

**CONTACTING THE DEPARTMENT**

The Department of Accountancy is located in BEP 469 and may be reached during business hours by phone at 859-572-6526. Visit the department's website at <http://www.nku.edu/~accountancy>.

**PROGRAMS OFFERED**

**Bachelor of Science**  
Accounting

**Master of Accountancy**

**GENERAL EDUCATION COURSE OFFERED**

None

**THE BACHELOR'S DEGREE PROGRAM**

The program leading to the degree of Bachelor of Science with a major in accounting and a minor in business administration is offered to students who seek careers as accountants and auditors with public accounting firms or with commercial, industrial, or public institutions. The graduate might eventually become an internal auditor, cost accountant, budget director, tax accountant, Internal Revenue agent, municipal finance officer, controller, or chief financial officer.

Besides preparation in managerial, financial, and tax accounting, students are given a broad background in business administration, quantitative analysis, and liberal arts. The required curriculum will provide the courses necessary to enter a graduate program in a business discipline.

The accountancy boards of Kentucky, Ohio, and Indiana require 150 semester hours including a bachelor's degree to sit for the CPA exam. Students should check with the State Board of Accountancy in the state of residency (or employment) for specific requirements. Those students needing additional semester hours of credit should investigate the Master of Accountancy program (information is provided in the graduate catalog). The undergraduate accounting degree program does meet the educational requirements necessary to take other certifying examinations in accounting (e.g., the Certified Management Accountant examination and the Certified Internal Auditor examination).

Students with a bachelor's degree in another field who now wish to pursue a career in accounting should contact the chair of the Department of Accountancy for information about academic and professional options.

**THE COOPERATIVE EDUCATION PROGRAM**

The College of Business and the Cooperative Education Program offer a series of co-op courses providing career-related experience. As part of the co-op program (described elsewhere in this catalog), students may enroll in Cooperative Education Experience (CEP 300). Bachelor's degree students may apply a total of 12 semester hours of CEP 300 toward the 128-semester-hour requirement for graduation; associate degree students may apply a total of 6 semester hours of CEP 300 toward the minimum 66 semester-hour requirement for graduation.

**Pre-major and selective admissions requirements**

Students desiring to major in accounting must meet selective admissions requirements for the Department of Accountancy. Some of the selective admissions courses may fulfill requirements in several mandatory categories: general studies requirements, requirements for the major in accounting and requirements for the minor in business administration.

The selective admissions requirements for the major in accounting can be met by completing the following courses and maintaining a minimum grade-point average of 2.50:

*Selective Admission—Courses*

ENG 101 College Writing  
MAT 109 Algebra for College Students  
MAT 111 Introductory Linear Mathematics  
MAT 112 Calculus for Business Applications  
SPE 101 Principles of Speech Communications  
ACC 200 Principles of Accounting I—Financial  
ACC 201 Principles of Accounting II—Managerial  
ACC 202 Accounting Lab  
BUS 230 Legal Environment  
ECO 200 Principles of Macroeconomics  
ECO 201 Principles of Microeconomics  
ENG 291 Advanced Writing  
MAT 212 Statistics for Business Applications I

**Additional Requirements**

In addition to courses listed under the major in accounting, students must provide evidence of computer literacy; this can be accomplished through a competency exam, completion of IFS 105 or documented completion of equivalent coursework. Accounting majors must also meet the requirements listed in the College of Business section above entitled "College-Wide Requirements."

**Transfer Students**

Transfer students with a major in accounting are required to complete at least 15 semester hours of ACC courses and at least 30 semester hours of required business courses at NKU. For evaluation of transferred courses to meet this requirement and the requirement for 64 semester hours of non-business courses, transfer students are advised to make an advising appointment with the College of Business Advising Center, BEP 463, 859-572-6134, as soon as transcripts from previous institutions are available.

**Degree Requirements**

In addition to university-wide requirements, students completing a degree of Bachelor of Science with a major in accounting and a minor in business administration must complete the following coursework.

## The Major in Accounting

Accounting majors must complete at least 24 semester hours of 300- and 400-level ACC courses. Students majoring in accounting must have a 2.00 cumulative grade-point average in the courses marked with an asterisk in the following list.

MAT 109 Algebra for College Students  
 MAT 111 Introductory Linear Mathematics  
 MAT 112 Calculus for Business Application  
 MAT 212 Statistics for Business Applications I  
 BUS 230 Legal Environment  
 \*ACC 202 Accounting Lab  
 \*ACC 300 Intermediate Accounting I  
 \*ACC 301 Intermediate Accounting II  
 \*ACC 310 Accounting Information Systems  
 \*ACC 320 Income Tax Planning  
 \*ACC 350 Management Cost Accounting I  
 BAD 305 Behavior in Organizations  
 COB 305 External Context of Business  
 \*ACC 400 Auditing or \*ACC 405 Operational Auditing  
 BAD 490 Business Policy

At least one course from

ACC 396 Accounting Internship  
 CEP 300 Cooperative Education Experience I

At least two accounting electives from

\*ACC 400 Auditing  
 \*ACC 405 Operational Auditing  
 \*ACC 420 Business Tax Planning Institutions

\*ACC 430 Accounting for Non-Profit  
 \*ACC 450 Management Cost Accounting II

At least one communications course from

ENG 340 Business Writing  
 ENG 371 Traditional Grammar

At least one course with a global focus from

ECO 340 International Economics (previously ECO 403)  
 ECO 344 Comparative Economic Systems (previously ECO 401)  
 MGT 360 Comparative International Management  
 PSC 320 Politics of Multinational Corporations  
 FIN 415 International Finance  
 PSC 410 Political Economy

Accounting majors must complete 8 semester hours of a foreign language or show high school credit for 2 years of a foreign language.

The B.S. in Accounting also requires completion of the minor in Business Administration. This minor includes courses previously listed under *Selective Admission—Courses* and the following four courses:

FIN 305 Principles of Finance  
 IFS 300 Management Information Systems  
 MGT 305 Operations Management  
 MKT 305 Principles of Marketing





# Economics and Finance Department

## FACULTY

Nancy A. Lang, *chair*

Thomas H. Cate, Gary Clayton, Steven DeVoto, Carl Simkonis

## CONTACTING THE DEPARTMENT

The Department of Economics and Finance is located in BEP 425 and may be reached during business hours by phone at 859-572-6581. Visit the department's website at <http://www.nku.edu/~eco>.

## PROGRAMS OFFERED

### Bachelor of Science

Economics  
Finance

### Minors

Economics  
Finance

## GENERAL EDUCATION COURSES OFFERED

ECO 200 Principles of Macroeconomics  
ECO 201 Principles of Microeconomics  
ECO 215 Contemporary Economic Issues

## THE BACHELOR DEGREE PROGRAM - ECONOMICS

The major in economics is a professional degree for non-business majors who want to prepare for graduate school or desire career opportunities in international trade, applied economics, or the social sciences. 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. Successful organizations require personnel with the skills to gather and analyze information about the economic environment which can be used to develop business or public policy. A degree in economics is excellent preparation for any career that requires knowledge of decision-making methods and the ability to analyze data relevant to making those decisions. The degree in economics is also sufficiently flexible to appeal to those students who desire a double major.

### The Major in Economics

Students majoring in economics are required to complete general education requirements of the university. Students must also complete the seven required courses listed below plus four courses in one of the three tracks. Students who do not wish to complete a track have the option of completing four additional upper-division economics courses of their choice.

#### Required Core Courses:

MAT 111 Introductory Linear Mathematics  
MAT 205 Introduction to Statistical Methods or MAT 212 Statistics for Business Applications I  
ECO 200 Principles of Macroeconomics  
ECO 201 Principles of Microeconomics  
CEP 300 Cooperative Education Experience  
ECO 300 Intermediate Macroeconomics  
ECO 301 Intermediate Microeconomics  
ECO 494 Seminar in Economics

#### Additional requirements for the B.S. in Economics:

Any four upper-division ECO courses or choose one of the following tracks:

#### International Track:

ECO 330 Regional Economics  
ECO 340 International Economics  
ECO 342 Economic Development  
ECO 344 Comparative Economic Systems

#### Applied Track:

ECO 302 Money and Banking  
ECO 310 Introduction to Econometrics  
ECO 332 Public Finance  
ECO 350 Labor Economics

#### Social Science Track:

Any two upper-division ECO courses and two courses from the following:

GEO 301 Urban Geography  
GEO 303 Cultural Geography  
GEO 309 Historical Geography of the United States  
GEO 360 Historical Urban Geography  
HIS 419 Social and Economic History of the United States  
LAS 300 Introduction to Labor Relations  
LAS 304 Wages and Benefits  
PSC 328 State and Urban Problems  
PSC 410 Political Economy

Or, any two other approved courses

Economics majors who may want to get an MBA in the future are encouraged to complete seven additional courses in the College of Business (ACC 200, ACC 201, BUS 230, FIN 305, IFS 300, MGT 305, MKT 305, and associated prerequisite courses). These courses, along with ECO 200 and ECO 201, complete the requirements for the Minor in Business Administration.

## The Minor in Economics

ECO 200 Principles of Macroeconomics  
ECO 201 Principles of Microeconomics  
Elective courses (choose six from the following:)  
ECO 300 Intermediate Macroeconomics  
ECO 301 Intermediate Microeconomics  
ECO 302 Money and Banking  
ECO 310 Introduction to Econometrics  
ECO 320 History of Economic Thought  
ECO 322 American Economic Development  
ECO 330 Regional Economics  
ECO 332 Public Finance  
ECO 340 International Economics  
ECO 342 Economic Development  
ECO 344 Comparative Economic Systems  
ECO 350 Labor Economics

## BACHELOR'S DEGREE PROGRAM - FINANCE

The major in finance offers varied career possibilities for college graduates. The field includes jobs in corporate finance, securities, commercial banking, financial planning, and investment banking. In corporate finance, positions may be in the treasurer's office or in the financial officer's office involving management of financial assets, capital budgeting, project financing, mergers and acquisitions, financial risk management, and international finance. Careers in the securities industry include stock brokering, trading, securities analysis and research, and options and futures trading. Banking careers may involve positions as a commercial loan officer, trust administrator, financial risk manager, bank manager, or in the credit lending or bank operations departments. Investment bankers help corporations perform business transactions, make investment decisions, and raise venture capital. They may also take on responsibilities in

financial analysis, expanding the firm's client base, or helping develop mergers or acquisitions for corporate investors. Careers in the financial planning area include the certified financial planner whose responsibilities encompass all aspects of individual financial planning such as retirement, estate, 401K, college savings, insurance and pension planning, and corporate financial planner advising employees on 401K, pensions, employee benefits, stock options, and insurance.

The major in finance includes two tracks: (1) corporate finance and (2) financial services. The financial services track is offered in partnership with Fidelity Investments to meet the needs of the financial services industry. The financial services track is approved by the Certified Financial Planner Board of Standards. The finance program is also registered with the Treasury Management Association for their Certified Cash Manager (CCM) Associate Program.

Students are strongly advised to include a cooperative education experience in the academic program. Students have the opportunity to apply for co-op positions at Fidelity Investments through its partnership agreement with the finance program at Northern Kentucky University.

### Pre-major and selective admissions requirements

Students desiring to major in finance must meet selective admissions requirements for the Department of Finance. Some of the selective admissions courses may fulfill requirements in several mandatory categories: general studies requirements, requirements for the major in finance and requirements for the minor in business administration.

The selective admissions requirements for the major in finance can be met by completing the following courses and maintaining a minimum grade-point average of 2.50.

#### Selective Admission—Courses

ENG 101 College Writing  
 MAT 111 Introductory Linear Mathematics  
 SPE 101 Principles of Speech Communication  
 ACC 200 Principles of Accounting I—Financial  
 ACC 201 Principles of Accounting II—Managerial  
 BUS 230 Legal Environment  
 ECO 200 Principles of Macroeconomics  
 ECO 201 Principles of Microeconomics  
 ENG 291 Advanced Writing  
 FIN 205 Personal Financial Management  
 MAT 212 Statistics for Business Application I

And one of the following math options:

#### Option I:

MAT 102 Business Mathematics  
 MAT 213 Statistics for Business Applications II

#### Option II:

MAT 109 Algebra for College Students  
 MAT 112 Calculus for Business Applications

### Additional requirements

Finance majors must also meet the requirements listed in the College of Business section above entitled "College-Wide Requirements."

### Transfer Students

Transfer students must complete at least 50% of the courses required for the major and at least 50% of the major discipline courses at Northern Kentucky University. For evaluation of transferred courses to meet this requirement and the requirement for 64 semester hours of non-business courses, transfer students are advised to make an advising appointment with the College of Business Advising Center, BEP 463, 859-572-6134 as soon as transcripts from previous institutions are available.

### The Major in Finance

Students majoring in finance are required to complete the following courses:

#### Required Courses

FIN 205 Personal Financial Management  
 BAD 305 Behavior in Organizations: Understanding Organizational Life  
 COB 305 The External Context for Business  
 FIN 315 Financial Management  
 FIN 345 Investment and Security Analysis  
 BAD 490 Business Policy  
 FIN 405 Derivative Securities  
 FIN 415 International Finance  
 FIN 425 Quantitative Techniques in Finance

Four courses required finance electives (choose one of the following tracks):

#### Corporate Finance and Investments Track

Choose two from the following courses:

FIN 325 Capital Budgeting  
 FIN 335 Working Capital Management  
 FIN 394 Selected Topics in Finance  
 FIN 435 Case Studies in Finance

Choose two from the following courses:

FIN 355 Principles of Risk Management and Insurance  
 FIN 365 Financial Markets and Institutions  
 FIN 375 Commercial Bank Management  
 FIN 394 Selected Topics in Finance

#### Financial Services Track

FIN 320 Financial Planning Process and Taxation  
 FIN 355 Principles of Risk Management and Insurance  
 FIN 385 Financial Planning Process and Estate Planning  
 FIN 445 Retirement Planning and Employee Benefits

The B.S. in Finance also requires completion of the minor in Business Administration. This minor includes courses previously listed under *Selective Admission—Courses* and the following four courses:

FIN 305 Principles of Finance  
 IFS 300 Management Information Systems  
 MGT 305 Operations Management  
 MKT 305 Principles of Marketing

### The Minor in Finance

FIN 305 Principles of Finance  
 FIN 345 Investments and Security Analysis  
 FIN 405 Derivative Securities

And one of the following tracks:

#### Corporate Finance and Investments Track

Choose three from the following:

FIN 315 Financial Management  
 FIN 325 Capital Budgeting  
 FIN 335 Working Capital Management  
 FIN 365 Financial Markets and Institutions  
 FIN 375 Commercial Bank Management  
 FIN 435 Case Studies in Finance

#### Financial Services Track

Choose three from the following:

FIN 205 Personal Financial Management  
 FIN 320 Financial Planning Process and Taxation  
 FIN 355 Principles of Risk Management and Insurance  
 FIN 385 Financial Planning Process and Estate Planning  
 FIN 445 Retirement Planning and Employee Benefits

# Information Systems Department

## FACULTY

Jasbir S. Dhaliwal, *chair*  
 Frank W. Braun, Teuta Cata, Sudesh M. Duggal, Jerome Gonnella, Robert C. Mahaney, David J. Manning, Vijay V. Raghavan, Toru Sakaguchi, Xiaoni Zhang

## CONTACTING THE DEPARTMENT

The Department of Information Systems is located in BEP 425 and may be reached during business hours by phone at 859-572-6581. Visit the department's website at <http://www.nku.edu/~ifs>.

## PROGRAMS OFFERED

### Bachelor's of Science

Information Systems

### Master of Science in Information Systems

## GENERAL EDUCATION COURSES OFFERED

None

## THE BACHELOR'S DEGREE PROGRAM

The major in information systems prepares students for careers in business computing, including work as computer programmers, programmer/analysts, systems analysts, systems designers, data-base and data communications 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. In this sense, the term "business computing" is broadly defined to include work in business and industrial firms, government institutions, educational organizations, health-care facilities, and other production and service organizations using computers to do the operational and administrative work of the company.

For students desiring a more managerial orientation to information systems, a specialization track in Information Technology Management is also offered that emphasizes workflow design and management, enterprise applications, knowledge management and global information technology management.

### Pre-major and selective admissions requirements

Students desiring to major in information systems must meet selective admissions requirements for the Department of Information Systems. Some of the selective admissions courses may fulfill requirements in several mandatory categories: general studies requirements, requirements for the major in information systems and requirements for the minor in business administration.

The selective admissions requirements for the major in information systems can be met by completing the following 15 courses and maintaining a minimum grade-point average of 2.50.

#### *Selective Admission—Courses*

ENG 101 College Composition I  
 IFS 110 Business Programming  
 MAT 102 Business Mathematics  
 MAT 111 Introductory Linear Mathematics  
 SPE 101 Principles of Speech Communication  
 ACC 200 Principles of Accounting I  
 ACC 201 Principles of Accounting II  
 BUS 230 Legal Environment  
 ECO 200 Principles of Macroeconomics  
 ECO 201 Principles of Microeconomics  
 ENG 291 Advanced Writing

IFS 225 Data Communications  
 IFS 235 Database Design  
 MAT 212 Statistics for Business Applications I  
 MAT 213 Statistics for Business Application II

### Additional Requirements

Information Systems majors must also meet the requirements listed in the College of Business section above entitled "College-Wide Requirements."

### Transfer Students

Transfer students must complete at least 50% of the courses required for the major and at least 50% of the major discipline courses at Northern Kentucky University. For evaluation of transferred courses to meet this requirement and the requirement for 64 semester hours of non-business courses, transfer students are advised to make an advising appointment with the College of Business Advising Center, BEP 463, 859-572-6134 as soon as transcripts from previous institutions are available.

#### *Additional requirements for the B.S. in Information Systems:*

BAD 305 Behavior in Organizations  
 COB 305 The External Context of Business  
 IFS 305 Advanced Business Programming  
 IFS 310 Structured Analysis and Design  
 IFS 325 E-Business Strategies and Models  
 IFS 330 IT Project Management  
 BAD 490 Business Policy  
 IFS 402 Programming for E-Commerce  
 IFS 410 Advanced Analysis and Design  
 IFS 435 Database Management Systems  
 IFS 485 Strategic Information Systems Management (Capstone)

#### *Information Technology Management Track*

Students in this track can replace IFS 402, IFS 410, and IFS 435 with any three of the following courses:

IFS 420 Knowledge Management and Enterprise Applications  
 IFS 430 Workflow Design and Management  
 IFS 440 Global Information Technology Management  
 IFS 494 Topics in Information Systems

The B.S. in Information Systems also requires completion of the minor in Business Administration. This minor includes courses previously listed under *Selective Admission—Courses* and the following four courses:

FIN 305 Principles of Finance  
 IFS 300 Management Information Systems  
 MGT 305 Operations Management  
 MKT 305 Principles of Marketing

### The Minor in Information Systems

For a minor in Information Systems, students must complete the following courses:

IFS 110 Business Programming  
 IFS 225 Data Communications  
 IFS 300 Management Information Systems  
 IFS 305 Advanced Business Programming  
 IFS 310 Structured Analysis and Design  
 Additionally, they must choose two courses from the following:  
 IFS 325 E-Business Strategies and Models  
 IFS 330 IT Project Management  
 IFS 402 Programming for E-Commerce  
 IFS 410 Advanced Analysis and Design  
 IFS 420 Knowledge Management and Enterprise Applications  
 IFS 430 Workflow Design and Management  
 IFS 435 Database Management Systems  
 IFS 440 Global Information Technology Management  
 IFS 494 Topics in Information Systems

# Management and Marketing Department

## FACULTY

Matthew D. Shank, *chair*  
 Fred M. Beasley, Michael R. Carrell, Matthew W. Ford, Thomas Gamble, Richard L. Gilson, Bertie M. Greer, Giles Hertz, Stephanie Hughes, Daniel W. Kent, Aron Levin, Van Miller, Banwari Mittal, Margaret Myers, Kenneth Rhee, Doris Shaw, Tracey H. Sigler, Robert A. Snyder, Rebecca White

## CONTACTING THE DEPARTMENT

The Department of Management and Marketing is located in BEP 475 and may be reached during business hours by phone at 859-572-6559. Visit the department's website at <http://www.nku.edu/~mgmtmkt>.

## PROGRAMS OFFERED

### Bachelor of Science

Business Administration  
 Management  
 Marketing  
 Sports Business

### Minors

Entrepreneurial Studies  
 Management  
 Marketing

## GENERAL EDUCATION COURSES OFFERED

None

## BACHELOR'S DEGREE PROGRAMS

### Pre-major and selective admissions requirements

Students seeking majors in the Department of Management and Marketing must meet selective admissions requirements. Some of the selective admissions courses may fulfill requirements in several mandatory categories: general studies requirements, requirements for the major in business administration and requirements for the minor in business administration.

The selective admissions requirements for the majors are listed separately. Certification of a major requires completion of the specified courses while maintaining a minimum grade-point average of 2.50.

### Additional Requirements

Majors must also meet the requirements listed in the College of Business section above entitled "College-Wide Requirements."

### Transfer Students

Transfer students must complete at least 50% of the courses required for the major and at least 50% of the major discipline courses at Northern Kentucky University. For evaluation of transferred courses to meet this requirement and the requirement for 64 semester hours of non-business courses, transfer students are advised to make an advising appointment with the College of Business Advising Center, BEP 463, 859-572-6134 as soon as transcripts from previous institutions are available.

### The Major in Business Administration

The major in business administration is designed to permit students to create a program of interdisciplinary study from upper-division courses in the College of Business appropriate to their academic interests and career goals.

*Selective Admission—Courses to be completed for certification of a major in business administration with overall 2.5 GPA*

ENG 101 College Writing  
 MAT 111 Introductory Linear Mathematics  
 SPE 101 Principles of Speech Communications  
 ACC 200 Principles of Accounting I—Financial  
 ACC 201 Principles of Accounting II—Managerial  
 BUS 230 Legal Environment  
 ECO 200 Principles of Macroeconomics  
 ECO 201 Principles of Microeconomics  
 ENG 291 Advanced Writing  
 MAT 212 Statistics for Business Applications I

One of the following:

FIN 205 Personal Finance  
 MGT 205 Introduction to Business Management

One of the following:

MAT 112 Calculus for Business Applications  
 MAT 213 Statistics for Business Applications II

In addition to university-wide requirements, students completing a degree of Bachelor of Science with a major in business administration and a minor in business administration must complete the following coursework.

*Additional requirements for the B.S. in Business Administration:*

BAD 305 Behavior in Organizations  
 COB 305 External Context of Business  
 BAD 490 Business Policy  
 21 hours of upper-division electives in the College of Business

The B.S. in Business Administration also requires completion of the minor in Business Administration. This minor includes courses previously listed under *Selective Admission—Courses* and the following four courses:

FIN 305 Principles of Finance  
 IFS 300 Management Information Systems  
 MGT 305 Operations Management  
 MKT 305 Principles of Marketing

### The Major in Management

The major 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 (e.g., 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. These behavioral competencies imperatively include team-building and small-group management skills. 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. Thus, graduates of the management program typically seek college entry-level general management or management-trainee positions in virtually any field—from banking to health care to manufacturing to sports or transportation.

*Selective Admission—Courses to be completed for certification of major in management with overall 2.5 GPA*

ENG 101 College Writing

MAT 102 Business Mathematics  
 MAT 111 Introductory Linear Mathematics  
 SPE 101 Principles of Speech Communications  
 ACC 200 Principles of Accounting I—Financial  
 ACC 201 Principles of Accounting II—Managerial  
 BUS 230 Legal Environment  
 ECO 200 Principles of Macroeconomics  
 ECO 201 Principles of Microeconomics  
 ENG 291 Advanced Writing  
 MAT 212 Statistics for Business Applications I  
 MAT 213 Statistics for Business Applications II  
 MGT 205 Introduction to Business and Management  
 SPE 220 Interpersonal Communications

*Additional requirements for the B.S. in Management:*

MGT 206 Management Assessment and Development I  
 MGT 240 Managerial Communications  
 BAD 305 Behavior in Business Organizations  
 COB 305 External Context of Business  
 ENTP 300 New Venture Creation  
 MGT 310 Managerial Behavior  
 MGT 340 Human Resources Administration  
 BAD 490 Business Policy  
 MGT 406 Management Assessment and Development II

*At least two elective courses in management; any two of the following courses; others may be chosen with an adviser's advance consent. (MGT 394 may be taken more than once if topics and issues differ).*

ENTP 333 New Venture Management  
 ENTP 375 Marketing Strategies for Entrepreneurial Businesses  
 ENTP 376 New Venture Financing  
 ENTP 377 Family Business Management  
 ENTP 378 Emerging Enterprise Law  
 MGT 360 Comparative International Management  
 MGT 394 Selected Topics in Management  
 ENTP 405 Corporate Entrepreneurship  
 ENTP 496 Entrepreneurial Internships  
 ENTP 497 Writing the Business Plan  
 MGT 410 Managing Organizational Change  
 MGT 415 Continuous Quality Improvement  
 MGT 496 Internship in Small Business

The B.S. in Management also requires completion of the minor in Business Administration. This minor includes courses previously listed under *Selective Admission—Courses* and the following four courses:

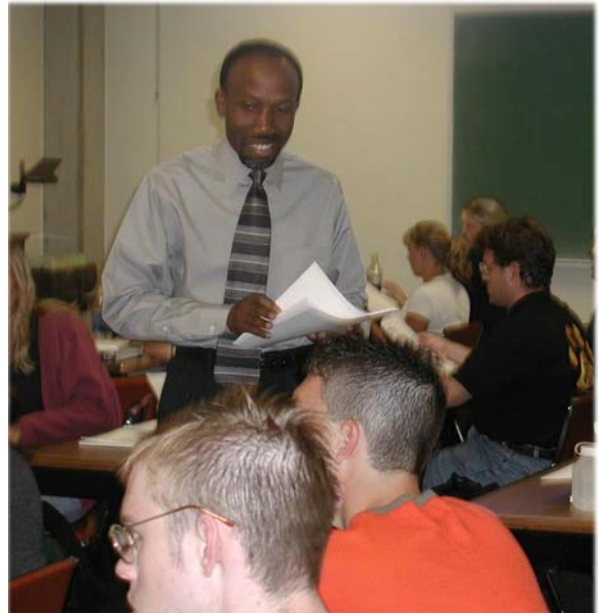
FIN 305 Principles of Finance  
 IFS 300 Management Information Systems  
 MGT 305 Operations Management  
 MKT 305 Principles of Marketing

### The Major in Marketing

The major in marketing emphasizes the knowledge, skills, and concepts necessary for effective performance in the various functional areas of marketing (e.g., product development, distribution, marketing communications and, especially, applied marketing research). The required courses are designed to demonstrate the interaction of the social, economic, and cultural environments upon the management of an organization's marketing activities. The marketing electives offer an opportunity for students to choose one of the following tracks for more specialized knowledge according to their academic interests and career goals: International Marketing; Retailing and Services Marketing; Sales; and Sports Marketing.

Career opportunities in marketing are extensive and diversified, including all aspects of product and brand management, distribution, retailing, sales, promotion, and a variety of forms of marketing communications. The degree program in marketing prepares students for entry-level career positions by requiring them to demonstrate through research

and case analysis the ability to apply marketing knowledge in practical situations. Marketing courses are also designed to encourage development and improvement of written and oral communication skills. Students are expected to make presentations, to write research reports and marketing plans, and to interact effectively with others in group assignments.



*Selective Admission—Courses to be completed for certification of a major in marketing with overall 2.5 GPA*

ENG 101 College Writing  
 MAT 102 Business Mathematics  
 MAT 111 Introductory Linear Mathematics  
 SPE 101 Principles of Speech Communications  
 PSY 100 Introduction to Psychology  
 SOC 100 Introduction to Sociology  
 ACC 200 Principles of Accounting I—Financial  
 ACC 201 Principles of Accounting II—Managerial  
 BUS 230 Legal Environment  
 ECO 200 Principles of Macroeconomics  
 ECO 201 Principles of Microeconomics  
 ENG 291 Advanced Writing  
 MAT 212 Statistics for Business Applications I  
 MAT 213 Statistics for Business Applications II

*Additional requirements for the B.S. in Marketing:*

BAD 305 Behavior in Organizations  
 COB 305 External Context of Business  
 MKT 320 Consumer Behavior  
 MKT 392 Introduction to Marketing Research  
 OST 311 Written Communication Systems  
 (or ENG 340 Business Writing)  
 BAD 490 Business Policy  
 MKT 480 Marketing Strategies and Policies  
 MKT 492 Advanced Marketing Research

Nine semester hours required marketing electives (choose one of the following tracks; others may be chosen with an adviser's advance consent; students would also be allowed to take three MKT elective, including SPB 305 and SPB 308, without declaring a track):

*International Marketing Track*

MKT 394 Selected Topics in Marketing: International Marketing  
 And any two of the following (or others with consent of adviser):  
 ECO 344 Comparative Economic Systems  
 ECO 340 International Economics  
 FIN 415 International Finance

**Marketing Research Track**

Any three of the following courses (or others with adviser's consent):

MAT 312 Elementary Survey Sampling  
 MAT 314 Design and Analysis of Experiments  
 PSY 210 Research methods in Psychology  
 SOC 320 Social Research  
 SOC 321 Applied Social Research  
 ECO 310 Introduction to Econometrics

**Sales Track**

MKT 306 Sales Management  
 MKT 310 Principles of Professional Selling  
 And one of the following (or others with consent of adviser):  
 SPE 220 Interpersonal Communication  
 SPE 303 Organizational Communication

**Sports Marketing Track**

SPB 305 Sports Marketing  
 And any two of the following courses (or others with advisor's consent):  
 SPB 308 Sports Promotion Tools  
 SPB 330 Sports Legal Environment  
 SPB 480 Sports Business Strategies and Policies

The B.S. in Marketing also requires completion of the minor in Business Administration. This minor includes courses previously listed under *Selective Admission—Courses* and the following four courses:

FIN 305 Principles of Finance  
 IFS 300 Management Information Systems  
 MGT 305 Operations Management  
 MKT 305 Principles of Marketing

**The Major in Sports Business**

Sports Business is the multidisciplinary study of business principles and processes applied to the sports industry.

The undergraduate major in Sport Business is a College of Business major supported by courses in the Communications Department and Physical Education. The program is designed to prepare students for a variety of career and leadership opportunities in sport business and recreational management. These fields include event suppliers, event management and marketing, sports media, sports sponsorship, athlete services, sports commissions, sports lawyers, manufacturers and distribution, facilities and facility suppliers, teams, leagues, college athletics, and finance. Program objectives prepare the student for the demands involved in the operation of sport programs at various levels.

*Selective Admission—Courses to be completed for certification of a major in sports business with overall 2.5 GPA*

ENG 101 College Writing  
 MAT 102 Business Mathematics  
 MAT 111 Introductory Linear Mathematics  
 SPE 101 Principles of Speech Communications  
 ACC 200 Principles of Accounting I—Financial  
 ACC 201 Principles of Accounting II—Managerial  
 BUS 230 Legal Environment  
 ECO 200 Principles of Macroeconomics  
 ECO 201 Principles of Microeconomics  
 ENG 291 Advanced Writing  
 MAT 212 Statistics for Business Applications I  
 MAT 213 Statistics for Business Applications II

**Additional requirements for the B.S. in Sports Business:**

BAD 305 Behavior in Organizations  
 SPB 396 Internship: Sports Business  
 COB 305 External Context of Business  
 MKT 306 Sales Management or MKT 310 Personal Selling  
 MKT 308 Advertising and Promotion  
 MKT 320 Consumer Behavior  
 SPB 305 Sports Marketing  
 SPB 308 Sports Promotion Tools  
 SPB 330 Sports legal Environment  
 PHE 385 Sociological and Psychological Dimensions of Sport  
 SPE 303 Organizational Communications  
 SPE 370 Advanced Public Speaking  
 SPE 380 Special Topics in Speech Communication: Sports  
 Public Relations  
 BAD 490 Business Policy  
 PHE 450 Organization and Administration of Recreation and Athletics  
 SPB 480 Sports Business Strategies and Policies

The B.S. in Sports Business also requires completion of the minor in Business Administration. This minor includes courses previously listed under *Selective Admission—Courses* and the following four courses:

FIN 305 Principles of Finance  
 IFS 300 Management Information Systems  
 MGT 305 Operations Management  
 MKT 305 Principles of Marketing

**MINORS****The Minor in Entrepreneurial Studies**

The focus of the minor in Entrepreneurial Studies is on generating ideas based on creativity, opportunity identification, feasibility studies, start-up activities, early stage strategies, and new initiatives within corporate environments. Students have unique opportunities to be involved in business partnerships and to find creative solutions to real business problems while completing their degrees. Business majors pursuing this minor are not required to take ENTP 150 or MGT 205.

**Level 1 (pre-requisites for all entrepreneurship courses)**

ENTP 150 Overview of Accounting (or ACC 200 and ACC 201)  
 MGT 205 Introduction to Business and Management  
 ENTP 300 New Venture Creation

**Level 2 (1 requirement and 1 elective)**

ENTP 333 New Venture Management (required)

**Elective Courses in Entrepreneurship – Select one**

ENTP 375 Marketing Strategies for Entrepreneurial Businesses  
 ENTP 376 New Venture Financing  
 ENTP 377 Family Business Management  
 ENTP 378 Emerging Enterprise Law  
 ENTP 405 Corporate Entrepreneurship

*Level 3 (required)*

- ENTP 496 Entrepreneurial Internship
- ENTP 497 Senior Portfolio: Writing the Business Plan

**The Minor in Management**

The required courses in the minor focus primarily on the behavioral aspects of management, i.e., the study of why people behave the way they do in work organizations and how managers can behave to effectively influence others and achieve organizational goals. Two elective courses in the minor allow students to explore areas of individual interest.

*Required courses*

- MGT 205 Introduction to Business Management
- BAD 305 Behavior in Organizations
- MGT 310 Managerial Behavior
- MGT 340 Human Resources Administration
- SPE 220 Interpersonal Communication

*Elective courses* (any two; others may be chosen with an adviser's advance consent):

- ENTP 300 New Venture Creation
- ENTP 333 New Venture Management
- ENTP 485 Field Study in Entrepreneurial Firms
- ENTP 375 Marketing Strategies for Entrepreneurial Businesses
- ENTP 376 New Venture Financing
- ENTP 377 Family Business Management
- ENTP 378 Emerging Enterprise Law
- MGT 360 Comparative International Management
- MGT 394 Selected Topics in Management
- MGT 394 Contemporary Issues in Management
- ENTP 405 Corporate Entrepreneurship
- ENTP 496 Entrepreneurial Internships
- MGT 496 Internship in Small Business

**The Minor in Marketing**

The required courses provide a general introduction to business organizations and their management (MGT 205), an overview of the market-

ing function (MKT 305), and exposure to the scientific study of buyer behavior (MKT 320). Elective courses allow students to pursue their own particular interests in the discipline.



*Required courses:*

- MGT 205 Introduction to Business and Management
- MKT 305 Principles of Marketing
- MKT 320 Consumer Behavior (or PSY 304 Consumer Psychology)

*Elective courses* (any four; others may be chosen with an adviser's advance consent):

- MKT 306 Sales Management
- MKT 307 Retail Management
- MKT 308 Advertising and Promotion
- MKT 310 Principles of Professional Selling
- MKT 340 Industrial Marketing
- MKT 392 Introduction to Marketing Research
- MKT 394 Selected Topics in Marketing

# THE COLLEGE OF EDUCATION

## DEPARTMENTS

Educational Specialties; Elementary, Middle, and Secondary

## CONTACTING THE COLLEGE

The College of Education located in the Business, Education, and Psychology (BEP) 203 may be reached during business hours by phone at 859-572-5229, or by facsimile at 859-572-6623. Interested persons are invited to browse the college's website at <http://www.nku.edu/~education>

Dr. Rachelle Bruno, *interim dean*                      bruno@nku.edu  
 Dr. Lynne Smith, *Interim Associate Dean*        smithly@nku.edu  
 Ms. Carole Ziegler, *administrative assistant*    zieglerc@nku.edu  
 Ms. Deedra Derrick, *graduate specialist*        derrick@nku.edu

## OFFICE OF STUDENT SERVICES

BEP 251/263 859-572-6944  
 Ms. Wanda Griffith, *director*                              griffithw@nku.edu  
 Mr. Michael Tolliver, *coordinator of field experience*        tolliverm@nku.edu  
 Ms. Leslie Manke, *admissions, advising, testing coordinator*        manke@nku.edu

## DEPARTMENT OF EDUCATIONAL SPECIALTIES

AHC 104 859-572-6557

Dr. Mary Kirk, *interim chair*                              kirkmf@nku.edu  
 Ms. Lisa Schultz, *academic assistant*  
 Dr. Valeria Amburgey, *technology coordinator*  
 Dr. Ron Gardella, *MAT coordinator*  
 Dr. Mary Rozier, *minority recruitment & retention coordinator*  
 Dr. Rosa Weaver, *coordinator Educational Leadership Program*  
 Mr. Trey Morgan, *coordinator Athletic Training Education Program*

### Special Education/IECE

Dr. Rachelle Bruno  
 Dr. Steve Walker  
 Dr. Melissa Jones  
 Dr. Michele Roszman-Millican  
 Dr. Anne Broughton  
 Dr. Bianca Prather-Jones

### HPE

Dr. Alar Lipping  
 Dr. Mike Gray  
 Dr. Mary Kirk  
 Dr. Carol Ryan  
 Dr. Gary Eippert  
 Ms. Jill Niemeyer  
 Mr. Wiley Piazza  
 Mr. Richard Simmons

### Foundations/MAT

Dr. Kim Code  
 Mr. George Frakes  
 Dr. John Huss  
 Ms. Cathy Ingram  
 Dr. Carla Johnson

## DEPARTMENT OF ELEMENTARY, MIDDLE, SECONDARY PROGRAMS

The Department of Elementary, Middle, and Secondary Programs is located in BEP 251 and may be reached during business hours by phone at 859-572-5624. Visit the college's website at <http://www.nku.edu/~education> for further information.

Dr. Carol Ryan, *interim chair*                              ryanc@nku.edu  
 Ms. Kathy Von Strohe, *academic assistant*        vonstrohek@nku.edu

### Elementary

Dr. Anjana Arora  
 Dr. Ernest Barnett  
 Dr. Maggie McGatha  
 Dr. Lynne Smith  
 Dr. Sara Runge-Pulte  
 Ms. Jennifer Cottingham  
 Ms. Molly Page

### Middle

Dr. Yvonne Meichtry  
 Dr. Linda Sheffield  
 Dr. David Bishop  
 Dr. David Shepherd  
 Ms. Toni Keller

### Secondary

Dr. Denise Dallmer  
 Dr. Rajeev Swami  
 Dr. James Votruba

## PROGRAMS OFFERED BY THE COLLEGE OF EDUCATION

### *Bachelor of Arts*

Interdisciplinary Early Childhood Education  
 Elementary Education  
 Middle Grades Education  
 Physical Education  
 Recreation/Fitness  
 Athletic Training

### *Graduate Programs*

Master of Arts in Education  
 Master of Arts in Teaching  
 Non-degree Fifth-Year Program  
 Non-degree Rank I Program  
 Non-degree Special Education Alternative Certification

## MISSION AND GOALS FOR THE COLLEGE OF EDUCATION

The faculty of Education is committed to developing a teacher education program that sets a standard of excellence in pre-service education of teachers. All students must master the Kentucky New Teacher Standards for Preparation and Certification prior to graduation and recommendation for teacher certification. These standards describe (1) what first-year teachers should know and be able to do in authentic teaching situations and (2) what academic content, teaching behaviors, and instructional processes are necessary to promote effective student learning.

## COLLEGE ADMISSION REQUIREMENTS

### **Admission Requirements for all Teacher Education Programs**

To apply for admission to the teacher education program, students must have

1. attended a mandatory orientation meeting;
2. earned a grade-point average of at least 2.50;
3. earned a minimum of 48 semester hours of coursework;
4. achieved a 21 composite on the ACT; 990 combined on the SAT; or approved scores on the PPST/CBT;
5. Successfully completed a computer course (CSC 150 or IFS 105) or a computer proficiency exam.

To receive admission to the teacher education program, students must have fulfilled all of the following requirements by the end of the admission semester:

1. Earned 64 semester hours of coursework;
2. Earned an overall grade-point average (GPA) of at least 2.50;
3. Achieved a *B* or better in SPE 101 or equivalent or passed the speech proficiency exam;
4. Achieved a *B* or better in ENG 291 or equivalent or passed the writing sample examination;



5. Signed a curriculum contract;
6. Earned a minimum grade of *C* in EDU 300, 305, 313 and EDS 360 and the Admissions Practicum;
7. Filed three recommendations from persons familiar with the candidate's potential to become an effective teacher;
8. Received approval of the teacher education committee; and
9. Submitted an approved portfolio.
10. Successfully completed a written and oral interview.

### ACCREDITATIONS/AFFILIATIONS

Northern Kentucky University is accredited by the National Council for the Accreditation of Teacher Education and by the Southern Association of Colleges and Schools. It is authorized by the Kentucky Education Professional Standards Board (EPSB) to offer teacher preparation programs leading to initial Kentucky teacher certification.

### TRANSFER STUDENTS

At the time of application a student will receive a transfer credit approval report. To view how courses equate to general education courses, please access your Norse Express for students and click on real-time degree audit. Any request for re-evaluation of coursework to fulfill general education should be directed to the General Education Office, SL 401 or Transfer Services, AC 302.

The Education Coordinator for Admissions, Advising and Testing will work in conjunction with the department involved and will decide initial determination of equivalencies. Any appeal of his/her decision should be referred directly to the General Education Office, SL 401. The decision made by the department after an appeal will then be final.

The applicability of prior coursework in the field of education will be determined by the Education Admissions, Advising, and Testing Coordinator at the time the student signs the curriculum contract (during the admissions semester) following these guidelines:

a. Is the course equivalent to the Northern Kentucky University requirement? This decision is made by the above coordinator in conjunction with the department chair and lead instructor for the course.

b. How old is the course? Due to "recency of preparation" requirements, as determined by the College of Education, no professional education course over nine years old can be used to recommend a student for certification. Therefore, a decision must be made whether the candidate will finish the program before an equivalent course will be older than nine years (i.e., if the student took a course equivalent to EDU 305 in spring 1993, that student must finish his/her program by the end of spring 2002 semester).

Once these decisions are made, the courses in question are entered onto the curriculum contract.

### EDUCATION

Preparation is required in four areas as follows: (1) a broad, comprehensive background in the liberal arts; (2) training in pedagogy through a sequence of professional courses; (3) extensive laboratory experiences provided by the University in cooperation with local school systems; and (4) in-depth preparation in the content area(s) leading to certification.

Successful completion of a teacher education program constitutes the first step toward attaining teacher certification in Kentucky. Initial certification of all new teachers also requires successful completion of appropriate written tests prior to certification. Additionally, all new teachers seeking initial certification in Kentucky will serve an internship. The examination and internship components are administered by the Kentucky EPSB and are not considered part of the NKU teacher education program. It is the responsibility of students to notify the Office of Student Services in the College of Education of an impending graduation date at least 30 days in advance. At that point, an institutional recommendation will be prepared for submission to the Kentucky Educational Professional Standards Board. Students who plan to teach in other states should work closely with the Office of Student Services to determine the requirements in those states with reference to reciprocity.

Responsibility for developing procedures and policies and for resolving all grievances in the teacher education program rests with the Teacher Education Committee, which is also responsible for admitting students into the teacher education program and to student teaching. The committee, chaired by the dean of education or his/her designee, is composed of teachers, school administrators, student representatives, and faculty from each department that prepares teachers.

Changes may be made in the teacher education programs to meet state requirements. Students must, therefore, obtain the current program requirements from the office of teacher certification. The advisement 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. This procedure will result in assignment to a teacher education adviser familiar with the current curricular and admission requirements and with any impending changes that may occur prior to a student's admission semester. All students pursuing teacher education are advised by education faculty.

All students who are pre-education majors or who are enrolled in the teacher education program should check their e-mail on a regular basis to obtain updated information regarding the teacher education program.

### I. ELEMENTARY EDUCATION (P-5)

The elementary education (P-5) program leads to the degree of Bachelor of Arts. The advisement process is particularly crucial for teacher education students. 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 adviser familiar with the current curricular and admission requirements and with any impending changes that may occur prior to the student's admission semester.

#### A. Program Requirements for Elementary Education (P-5)

##### 1. General Education Requirements

Students are responsible for fulfilling the general education requirements outlined in this catalog in effect at their entrance into the university. To fulfill program and university requirements at the same time, students should make the following choices within the University's general education framework.

- a. Oral communication  
SPE 101 (the University's competency exam is not sufficient);
- b. Mathematics  
MAT 113.
- c. Natural Sciences  
BIO 120 with laboratory and an additional science course (CHE, AST, GLY, or PHY) with laboratory or SCI 110 and SCI 111
- d. Humanities/Fine arts  
A course in philosophy; a course in a fine art (ART, MUS, or TAR); and
- e. Behavioral sciences  
PSY 100.

##### 2. Professional Education Courses

Students complete their teacher education preparation program within professional semesters. Students should meet with their adviser for more details and/or program changes.

###### a. Admission Semester

Students who have met the requirements for application for admission to the teacher education program may enroll in EDU 300, 305, 313, 307 and EDS 360.

###### b. Professional Semester I

To be admitted to professional semester I, students must have (1) completed successfully the admission semester and Admission Practicum for Elementary Grades and been admitted to the teacher education program (minimum grade of *C* in all admission courses);

(2) completed successfully 6 semester hours of English Composition, PSY 100, and SPE 101;

(3) submitted an approved portfolio.

Students who have been admitted to professional semester I may enroll in EDU 302, 310, 314, 390 and EDS 322;

c. Professional Semester II

To be admitted to professional semester II, students must have

- (1) completed successfully professional semester I and Elementary Practicum I;
- (2) completed successfully 6 semester hours of social science courses (minimum grade: C);
- (3) completed a biological science course with laboratory (minimum grade: C);
- (4) completed a physical science course with laboratory (minimum grade: C);
- (5) completed MAT 140 (minimum grade: C);
- (6) completed MAT 141 (minimum grade: C);
- (7) completed MAT 113 or MAT 205 if math emphasis (minimum grade: C)
- (8) submitted an approved portfolio;
- (9) completed 6 semester hours of history/geography (minimum grade: C).

Students who have been admitted to professional semester II may enroll in EDU 306, 308, 312, 315 and 392.

d. Professional semester III

Students must complete an application for admission to student teaching in elementary education/professional semester III the semester before student teaching. To receive admission to student teaching/professional semester III, students must have

- (1) earned an overall grade-point average of at least 2.50;
- (2) completed all professional education courses and practica (including ART 280, ENG 386, HEA 250, MAT 113, MAT 140, MAT 141, MUS 260, and PHE 250) with a grade of at least C in each course and with a grade-point average of at least 2.50;
- (3) completed all coursework in the emphasis area with a grade-point average of at least 2.50;
- (4) earned a minimum of 91 semester hours (senior standing);
- (5) developed those professional characteristics deemed necessary for successful completion of student teaching;
- (6) passed a current medical examination, including a tuberculosis test, from a licensed physician;
- (7) completed two semesters in residence (a minimum of 24 semester hours);
- (8) received approval by the department of the student's major;
- (9) received approval by the teacher education committee;
- (10) earned 150 clock hours (verified) of approved clinical/field work at the appropriate level;
- (11) submitted an approved portfolio

Students who have been admitted to professional semester III may enroll in EDU 494,

- (12) complete a pre-student teaching interview.

3. Related Courses

ART 280; ENG 386; HEA 250; MAT 140, 141; MUS 260; PHE 250. Must be completed with a C or better.

4. Emphasis Areas

Students in elementary education must successfully complete all coursework listed on the curriculum contract in at least one of the following emphasis areas.

- a. English/Communications
- b. Mathematics
- c. Science

d. Social studies

e. Special Education

Information on appropriate coursework for each of the emphasis areas is available in the Office of Student Services in the College of Education.

5. Special Education Certification

Students majoring in elementary grades education may complete a program leading to certification for teaching programs for children and youth with learning and behavior disorders (LBD). This program results in dual certification: P-5 elementary grades and P-12 special education (LBD).

**B. Recommendation for Teacher Certification in Elementary Education (P-5)**

*1. Application*

Students must file an application in the Office of Student Services in the College of Education at least 30 days prior to the date of anticipated graduation.

*2. Recommendation*

To be recommended for teacher certification, students must have

- a. completed successfully all program requirements;
- b. achieved good standing at NKU;
- c. attained an overall grade-point average of at least 2.50;
- d. attained a grade-point average of at least 2.50 in all professional education courses and practica;
- e. completed a required emphasis area (minor) with a grade-point average of at least 2.50;
- f. submitted an approved portfolio;
- g. completed successfully the Praxis II examination, the PLT examination, and other examinations required for teacher certification in Kentucky;
- h. filed a TC-1 form by the required date (complete with official transcripts from all schools attended, with the exception of Northern Kentucky University).

**II. SPECIAL EDUCATION**

Students at Northern Kentucky University who wish to complete the P-12 preparation program in special education must also complete certification requirements for teaching certificates in the P-5 elementary program, the middle grades program with an endorsement for teaching special education, or a content major and the complete certification sequence in secondary education. The special education program at NKU is based on the premise that teachers should be prepared to teach all children regardless of each child's ability or disability. In Kentucky, regular and special education teachers work in partnership to provide services to children with disabilities in inclusive settings.

The advisement process is particularly crucial for teacher education students. It is suggested that freshmen or other interested students declare a pre-major in education. A student who expresses an interest in pursuing certification in special education will be assigned an adviser from the College of Education who is familiar with the current curricular and admission requirements and with any impending changes that may occur prior to the student's admission semester.

**A. Program Requirements for Special Education**

Students must complete the following requirements as well as the requirements for elementary education (P-5), the middle grades program with an endorsement for teaching special education, or a content major and the complete certification sequence in secondary education.

*1. General Education Requirements*

Students are responsible for fulfilling the general education outlined in the catalog in effect at their entrance into the university.

To fulfill program and University requirements at the same

time, students should make the following choices within the University's general education framework.

- a. Oral communication  
SPE 101 (the University's competency examination is not sufficient).
- b. Humanities/Fine arts  
A course in philosophy; a course in a fine art (ART, MUS, or TAR);
- c. Behavioral sciences  
PSY 100

### 2. Professional Education Courses

Students complete their teacher education preparation program within professional semesters. The professional semesters in special education will be scheduled in conjunction with the student's elementary, middle, or secondary professional semesters. Students should meet with their adviser for more details, especially in regard to prerequisites for each semester. They should also consult the appropriate sections for the P-5 elementary, middle grades, or secondary education requirements as well.

#### a. Admission Semester

Students who have met the requirements for application for admission to the teacher education program may enroll in EDU 300, 305, 313, EDS 360, and one of EDU 307 (P-5) or 309 (middle grades) or 311 (secondary).

#### b. Professional Semester I

Students who have met the prerequisites for professional semester I may enroll in EDS 364, 561, 562, 572, 322, *either* EDU 302 or 304 (middle grades), and *either* EDU 390 or 391 (middle grades).

#### c. Professional Semester II

Students who have met the prerequisites for professional semester I may enroll in EDS 362, 464, 472, 473, and 570.

#### d. Professional Semester III

Students must complete an application for admission to student teaching in special education/professional semester III the semester before student teaching. To receive admission to student teaching/professional semester III, students must have

- (1) earned an overall grade-point average of at least 2.50;
- (2) completed all professional education courses and practica (including ENG 386, MAT 140, MAT 141, and *either* ART 280 or MUS 260) with a grade of at least C in each course and with a grade-point average of at least 2.50;
- (3) earned a minimum of 91 semester hours (senior standing);
- (4) developed those professional characteristics deemed necessary for successful completion of student teaching;
- (5) passed a current medical examination, including a tuberculosis test, from a licensed physician;
- (6) completed two semesters in residence (a minimum of 24 semester hours);
- (7) received approval by the department of the student's major;
- (8) received approval by the teacher education committee;
- (9) earned 150 clock hours (verified) of approved clinical/field work at the appropriate level;
- (10) submitted an approved portfolio,
- (11) completion of pre student teaching interview.

Students who have been admitted to professional semester III may enroll in EDU 492 (elementary), 493 (middle grades), or 497 (secondary).

### 3. Related Courses

ENG 386; MAT 140, 141; *either* ART 280 or MUS 260; and *either* PHE 200 and a 100 level PHE activity course (middle grades or secondary) or HEA 250 and PHE 250 (P-5). Must be completed with a C or better. IFS 105 or CSC 150 or pass a computer proficiency test as prerequisite for EDU 313.

## B. Recommendation for Certification in Special Education

### 1. Application

Students must file an application in the Office of Student Services in the College of Education at least 30 days prior to the date of anticipated graduation.

### 2. Recommendation

To be recommended for teacher certification, students must have

- a. completed successfully all program requirements;
- b. achieved good standing at NKU;
- c. attained an overall grade-point average of at least 2.50;
- d. attained a grade-point average of at least 2.50 in all professional education courses and practica;
- e. submitted an approved portfolio;
- f. completed successfully the Praxis II examination (and other examinations required for teacher certification in Kentucky);
- g. filed a TC-1 form by the required date (complete with official transcripts from all schools attended, with the exception of Northern Kentucky University).



## III. INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION (IECE)

Students who wish to be certified to teach in Kentucky's high-risk birth-through-three programs (Kentucky's Early Intervention System) or in Kentucky's public school preschool programs, serving three- to five-year olds with and without disabilities, should select the interdisciplinary early childhood education (IECE) program as their major.

The advisement process is particularly crucial for teacher education students. It is suggested that freshmen or other interested students declare a pre-major in IECE. This procedure will result in assignment to a teacher education adviser familiar with the current curricular and admission requirements and with any impending changes that may occur prior to the student's admission semester. All students pursuing the IECE program are advised by education faculty familiar with the program.

Students who already possess a bachelor's degree in education and wish to obtain certification in early childhood education should check the graduate section of the catalog for post-bachelor's program options.

## A. Program Requirements for Interdisciplinary Early Childhood Education (IECE)

### 1. General Education Requirements

Students are responsible for fulfilling the general education requirements outlined in this catalog in effect at their entrance into the University. To fulfill program and University requirements at the same time, students should make the following choices within the University's general education framework.

#### a. Oral communication

SPE 101 (the University's competency examination is not sufficient)

#### b. Natural science

BIO 120 with laboratory and additional science course or SCI 110 and 111

#### c. Humanities/Fine Arts

A course in philosophy and a course in a fine art (ART, MUS, or TAR)

#### d. Behavioral sciences

PSY 100.

### 2. Professional Studies Courses

Students complete their teacher education preparation program within professional semesters. The IECE program is interdisciplinary and involves collaboration with the areas of special education, human services, and social work. Student should meet with their adviser for more details, especially in regard to prerequisites for each semester and to any curricular issues that may affect their program.

#### a. Admission Semester

Students who have met the requirements for application for admission to the teacher education program may enroll in EDU 303, 305, 313, EDS 360, HSR 100 and 110, and *either* EDU 300 *or* PSY 319.

#### b. Additional Professional Coursework

To be eligible to take additional professional coursework in education, students must have

1. completed successfully the admission semester and the admission practicum and been fully admitted to the teacher education program;
2. completed successfully 6 semester hours of English, PSY 100 and SPE 101; and
3. submitted an approved portfolio

Students who have met these requirements may enroll in the education courses listed below. Students may enroll in ENG 386; HSR 450, 500, 502; HEA 135, PHE 330; SWK 510; and one elective (HSR 226 recommended) without the above requirements. It is essential that students meet with their IECE faculty advisors to determine the best sequencing of this coursework and that the prerequisites for individual courses have been met. The additional education coursework includes EDU 301, 550, 551, EDS 322, 562, 564, 566, 568, and EDS 570.

#### c. Student Teaching

Students must complete an application for admission to student teaching in IECE the semester before student teaching. To receive admission to student teaching, students must have

1. earned an overall grade-point average of at least 2.50;
2. completed all professional studies courses and practica with a grade of at least a *C* in each course and with a grade-point average of at least 2.50;
3. completed all coursework in the emphasis area with a grade-point average of at least 2.50;

4. earned a minimum of 91 semester hours (senior standing);
5. developed those professional characteristics deemed necessary for successful completion of student teaching;
6. passed a current medical examination, including a tuberculosis test, from a licensed physician;
7. completed two semesters in residence (a minimum of 24 semester hours);
8. received approval by the department of the student's major;
9. received approval by the teacher education committee;
10. earned an appropriate number of clock hours (verified) of approved clinical/field work at the appropriate level;
11. submitted an approved portfolio;
- 12.) completed pre-student teaching interview.

Students who have been admitted to student teaching may enroll in EDU 491.

### 3. Emphasis Areas

Students in interdisciplinary early childhood education must successfully complete all coursework listed on the curriculum contract in at least one of the following emphasis areas:

- a. English/Communications
- b. Mathematics
- c. Science
- d. Social studies
- e. Psychology
- f. Mental health/Human services
- g. Interdisciplinary (PSY; EDU; Mental health; Human services)

Information on appropriate coursework for each of the emphasis areas is available in the Office of Student Services in the College of Education.

## B. Recommendation for Certification in Interdisciplinary Early Childhood Education (IECE)

### 1. Application

Students must file an application in the Office of Student Services in the College of Education at least 30 days prior to the date of anticipated graduation.

### 2. Recommendation

To be recommended for teacher certification, students must have

- a. completed successfully program requirements;
- b. achieved good standing at NKU;
- c. attained an overall grade-point average of at least 2.50;
- d. attained a grade-point average of at least 2.50 in all professional studies courses and practica;
- e. completed a required emphasis area (minor) with a grade-point average of at least 2.50;
- f. submitted an approved portfolio;
- g. completed successfully the state examination required for teacher certification in Kentucky;
- h. filed a TC-1 form by the required date (complete with official transcripts from all schools attended, with the exception of Northern Kentucky University).

## IV. MIDDLE GRADES EDUCATION (5-9)

Successful completion of the middle grades program leads to the degree of Bachelor of Arts and is the first step toward attaining certification to teach in a middle grades program in Kentucky. Students wishing to enroll in the middle grades program must follow the admissions guide-

lines under each program. It is suggested that freshmen or other interested students declare a pre-education major in middle grades education. This procedure will result in assignment to a teacher education adviser familiar with the current curricular and admission requirements and with any impending changes that may occur prior to the student's admission semester.

### A. Program Requirements for Middle Grades Education

#### 1. General Education Requirements

Students are responsible for completion of the general education outlined in the catalog in effect at their entrance into the University. To fulfill program and university requirements at the same time, students should make the following choices within the University's general education framework.

- a. Oral communication  
SPE 101 (the University's competency examination is not sufficient)
- b. Humanities/Fine arts  
A course in PHI (philosophy) and a course in a fine art (ART, MUS, or TAR)
- c. Behavioral sciences  
PSY 100 must be included.

#### 2. Program Requirements

Students complete their teacher education preparation program within professional semesters. The sequence of three professional semesters for middle grades education (5-9) with associated prerequisites and related requirements is as follows:

- a. Admission Semester  
Students who have met the requirements for application for admission to the teacher education program (see "Admission Requirements for all Teacher Education Programs" at the beginning of the "Education" section of this catalog) may enroll in EDU 300, 305, 313, 309 and EDS 360.
- b. Professional Semester I
  1. To be admitted to professional semester I, students must have successfully completed the admission semester (achieving at least a C in EDU 300, 305, 313, 309 and EDS 360) and the admission practicum for middle grades; submitted an approved portfolio; and been fully admitted to the teacher education program.
  2. To successfully complete professional semester I and be eligible to enroll in professional semester II students must complete EDU 304, 315, 391 and EDS 322, with C or better, and submit a revised and updated portfolio.
- c. Professional Semester II  
To successfully complete professional semester II, and be eligible to enroll in student teaching students must complete EDU 344, EDU 318 and two of the following methods courses pertaining to their selected teaching fields: EDU 345, 346, 347, 348, and 394, with a C or better, plus submit and receive approval for a revised and updated portfolio.
- d. Professional Semester III  
Student Teaching. Students must complete an application for admission to student teaching during the middle grades professional semester II. To receive admission to student teaching, students must have
  - (1) earned an overall grade-point average of at least 2.50;
  - (2) completed all professional courses and practica (including PHE 200 and a 100-level PHE activity course) with a grade of at least C in each course and with a grade-point average of at least 2.50 on a 4.00 scale.

- (3) completed all coursework in the two teaching fields with a grade-point average of at least 2.50;
- (4) earned a minimum of 91 semester hours (senior standing)
- (5) developed those professional characteristics deemed necessary for successful completion of student teaching;
- (6) passed a current medical examination, including a tuberculosis test, from a licensed physician;
- (7) completed two semesters in residence (a minimum of 24 semester hours);
- (8) received approval by the department of the student's major;
- (9) received approval by the teacher education committee;
- (10) earned 150 clock hours (verified) of approved clinical/field work at the appropriate level;
- (11) submitted an approved portfolio;
- (12) complete pre-student teaching interview

#### 3. Related Coursework

Students in the middle grades program must complete 3 semester hours of physical education coursework including PHE 200 Concepts of Lifetime Fitness (2 semester hours) and a 100-level PHE activity course (1 semester hour).

#### 4. Teaching Fields

Students in middle grades education must successfully complete all coursework (with a grade-point average of at least 2.50) listed on the curriculum contract for two of the following teaching fields. To take the appropriate methods courses students must have completed at least 12 semester hours of content courses.

- a. English/Communication
- b. Mathematics
- c. Science
- d. Social studies
- e. Special education

Information on appropriate coursework for each of the teaching fields is available in the Office of Student Services in the College of Education.

#### 5. Special Education Certification

Students majoring in middle grades education may complete a program leading to certification for teaching programs for children and youth with learning and behavior disorders (LBD). This program results in dual certification: 5-9 middle grades and P-12 special education (LBD).

### B. Recommendation for Certification in Middle Grades Education

#### 1. Application

Students must file an application in the Office of Student Services in the College of Education at least 30 days prior to the date of anticipated graduation.

#### 2. Recommendation

To be recommended for teacher certification, students must have

- a. completed successfully all program requirements, including student teaching;
- b. achieved good standing at NKU
- c. earned an overall grade-point average of at least 2.50;
- d. completed all professional education coursework and practica with a grade-point average of at least 2.50;
- e. completed all coursework required for the two teaching fields with a grade-point average of at least 2.50;

- f. completed successfully the Praxis II and the PLT Praxis examination (or other examinations required for teacher certification in Kentucky);
- g. submitted an approved portfolio.
- h. filed a TC-1 Form by the required date complete with official transcripts from all schools attended, with the exception of NKU).

### Middle Grades Extension Program

This program is for elementary or secondary pre-service and in-service teachers who want to extend their certification to middle grades (5-9).

#### A. Requirements for Elementary Pre-or In-Service Teachers

(All courses may also be listed as EDU 599 courses)

##### 1. Foundation Courses

- EDU 344 Fundamentals of Middle Grades - 2 hours
- EDU 318 Middle grades Classroom Management - 1 hour

##### 2. Appropriate Methods Courses

- EDU 345 Teaching Language Arts in Middle Grades - 3 hours
- EDU 346 Teaching Science in Middle Grades - 3 hours
- EDU 347 Teaching Mathematics in Middle Grades - 3 hours
- EDU 348 Teaching Social Studies in Middle Grades - 3 hours

Complete required content courses for the middle grades certification area (see the middle grades curriculum contract).

#### B. Requirements for Secondary Pre- or In-Service Teachers

(All courses may also be listed as EDU 599 courses)

##### 1. Foundation Courses

- EDU 344 Fundamentals of Middle Grades - 2 hours
- EDU 318 Middle Grades and Secondary Climate Classroom Management - 1 hour
- EDU 304 Reading/Writing Across the Curriculum - 3 hours OR
- EDG 630 Language/Learning Across the Curriculum - 3 hours

##### 2. Appropriate Methods Courses

- EDU 345 Teaching Language Arts in Middle Grades - 3 hours
- EDU 346 Teaching Science in Middle Grades - 3 hours
- EDU 347 Teaching Mathematics in Middle Grades - 3 hours
- EDU 348 Teaching Social Studies in Middle Grades - 3 hours

Complete required content courses for the middle grades certification area (see the middle grades curriculum contract)

The foundations courses are taught as EDU 599 classes during summer semesters of odd years; the methods courses are taught as EDU 599 during the fall semester each year.

Content courses are taught at various times - please contact the appropriate NKU department for additional information concerning a specific content course.

## V. SECONDARY EDUCATION (8-12)

Successful completion of the secondary education program leads to a bachelor's degree and is the first step toward attaining certification to teach in a secondary school program in the teaching field in Kentucky. Students wishing to enroll in the secondary education program must follow the admissions guidelines under "Admission Requirements for all Teacher Education Programs" listed at the beginning of the "Education" section of this catalog. It is suggested that freshmen or other interested students declare pre-secondary education. This procedure will result in assignment to teacher education and content area advisers familiar with the current curricular and admission requirements and with any impending changes that may occur prior to the student's admission semester.

Students in secondary education major and receive their bachelor's degree from their content area department.

#### A. Program Requirements for Secondary Education

##### 1. General Education Requirements for Undergraduate Students

Students are responsible for fulfilling the general education requirement outlined in this catalog in effect at their entrance into the University. To fulfill program and University requirements at the same time, students should make the following choices within the University's general education framework:

- a. Oral communication  
SPE 101 (the University's competency examination is not sufficient)
  - b. Humanities/Fine arts  
A course in PHI (philosophy) and a course in a fine art (ART, MUS, or TAR)
  - c. Behavioral sciences  
PSY 100 must be included.
2. General Education Requirements for Post-Bachelor's Students Seeking Secondary Certification  
Students must show that they have completed general education courses and experiences in the liberal arts and sciences and have developed theoretical and practical knowledge. This includes completing
    - a. courses in both written and oral communication skills;
    - b. courses in fine arts, history, literature, mathematics, philosophy, psychology, science (with a laboratory), and social sciences;
    - c. courses in multicultural and global perspectives.
  3. Program Requirements  
Students complete their teacher education preparation program within professional semesters.
    - a. *Admission Semester*  
Students who have met the requirements for application for admission to the teacher education program (see "Admissions Requirements for all Teacher Education Programs" at the beginning of the "Education" section of this catalog) may enroll in EDU 300, 305, 313, 311, and EDS 360.
    - b. *Admission to Professional Semester I*  
Students must have completed successfully the admission semester (achieving at least a C in EDU 300, 305, 313, 311 and EDS 360) and the admission practicum for secondary grades; submitted an approved portfolio; and been fully admitted to the teacher education program.
    - c. *Professional Semester I*  
To complete successfully professional semester I and to be eligible to enroll in professional semester II, students must complete EDU 318, 324 and EDS 322; EDU 393; and submit an approved revised and updated portfolio (achieving at least a C in EDU 318, 324, 393 and EDS 322).
    - d. *Professional Semester II*  
To successfully complete Professional Semester II and be eligible to enroll in Professional Semester III (student teaching), students must complete EDU 315, the appropriate methods course, as indicated in the program contract, EDU 396, and submit an approved and updated portfolio (achieving at least a C in EDU 315, the methods course, and EDU 396). To receive admission to student teaching, students must have
      - (1) earned an overall grade-point average of at least 2.50;
      - (2) completed all professional courses, practica, and related courses with at least a C in each course and with a grade-point of at least 2.50;
      - (3) completed 85% of the coursework in the teaching fields with a grade-point average of at least 2.50;
      - (4) earned a minimum of 91 semester hours (senior standing);
      - (5) developed those professional characteristics deemed necessary for successful completion of student teaching;

- (6) passed a current medical examination, including a tuberculosis test, from a licensed physician;
- (7) completed two semesters in residence (a minimum of 24 semester hours);
- (8) received approval by the department of the student's major;
- (9) received approval by the teacher education committee;
- (10) earned 150 clock hours (verified) of approved clinical/field work at the appropriate level;
- (11) submitted an approved portfolio;
- (12) complete a pre-student teaching interview.

e. *Professional Semester III*

Students must complete an application for admission to student teaching in the secondary school during professional semester I.

4. Related Coursework

Students in the secondary education program must complete 3 semester hours of physical education coursework including PHE 200 (2 semester hours) and a 100-level PHE activity course (1 semester hour).

5. Areas of Certification

Students in secondary education must complete at least one teaching field that is recognized as an area for certification by Kentucky. They must also successfully complete all coursework listed on the curriculum contract in their specialization area with a GPA of at least a 2.50. Coursework required in the areas of certification can be found in this catalog under the major departmental sections. The University has requested and received approval to offer the following areas for certification in secondary education, grades 8-12.

**Areas for Certification 8-12**

English  
 Mathematics  
 Biology  
 Chemistry  
 Physics  
 Earth/Space Science  
 Social Studies  
 Business education (grades 5-12)  
 Certification endorsement computer science

**Specialty Areas with Grades P-12 Certification**

Art  
 Foreign language (French, Spanish, German endorsement)  
 Health education (must be paired with another certification area)  
 Music  
 Physical education

6. Specialty Areas: Primary-12 Certification Programs

Students wishing to seek certification in any of the special areas P-12 programs should follow the curriculum contracts for those programs. Information for each of the P-12 certification special areas can be obtained from the department in which the program is housed or from the Department of Initial Certification in the College of Education.

7. Special Education Certification

Students in the secondary education program may receive a teaching certificate for teaching in programs for youth with learning and behavior disorders (LBD). This program results in dual certification: 8-12 secondary education and P-12 special education (LBD). The program requires 38 semester hours of coursework in special education plus student teaching in a program for youth with learning and behavior disorders. For more

information on this program contact the Department of Initial Certification in the College of Education.

**B. Recommendation for Certification in Secondary Education**

1. Application

Students must file an application in the Office of Student Services in the College of Education at least 30 days prior to the date of anticipated graduation.

2. Recommendation

To be recommended for teacher certification, students must have:

- a. completed successfully all program requirements, including student teaching
- b. achieved good standing at NKU
- c. earned an overall grade point average of at least 2.5
- d. completed all professional education coursework and practica with a grade-point average of at least 2.5
- e. completed all coursework required for the teacher certification content area with a grade-point average of at least 2.5
- f. completed successfully the Praxis examinations (and any other examinations required for teacher certification in Kentucky).
- g. submitted an approved portfolio
- h. filed a TC-1 form by the required date (complete with official transcripts from all schools attended, with the exception of NKU).



**VI. HEALTH AND PHYSICAL EDUCATION**

Students interested in pursuing a career in health and physical education may choose from one of the following options: physical education P-12 certification program; the specialization in health education, which leads to certification in health education P-12; the specialization in recreation/fitness, which is a non-teaching option preparing students for leadership roles in community and corporate fitness programs; the major in athletic training. The following minors are also available to students: health education, physical education, and athletic training.

**A. Major in Physical Education P-12 Certification**

Successful completion of the physical education P-12 program leads to the degree of Bachelor of Arts and is the first step toward attaining certification to teach in an elementary, middle, or secondary physical education program in Kentucky. Students wishing to enroll in the program must follow the "Admission Requirements for all Teacher Education Programs" listed at the beginning of the "Education" section of this catalog. It is suggested that freshmen or other interested students declare physical education P-12 as a major. This procedure will result in assignment to a physical education adviser familiar with any impending changes that may occur prior to a student's admission semester.

1. Program Requirements for Physical Education P-12

- a. General education requirements for undergraduate students. Undergraduate students majoring in physical education are responsible for completion of the general education requirements outlined in the catalog in effect at their entrance to the University. To fulfill program and University requirements at the same time, students should make the following choices within the University’s general education framework:
  - (1) Oral communication  
SPE 101 (the University’s competency examination is not sufficient)
  - (2) Humanities/Fine arts  
A course in PHI (philosophy); a course in a fine art (ART, MUS, or TAR)
  - (3) Behavioral sciences  
PSY 100 must be included.
- b. General education requirements for post-bachelor’s students seeking P-12 physical education. Students must show that they have completed general education courses and experiences in the liberal arts and sciences and have developed theoretical and practical knowledge. This includes completing
  - (1) courses in both written and oral skills;
  - (2) courses in fine arts, history, literature, mathematics, philosophy, psychology, science (with a laboratory), and social sciences; and
  - (3) courses in multicultural and global perspectives
- c. Program Requirements  
Students complete their teacher education program within professional semesters.
  - (1) Admission semester  
Students who have met the requirements for application for admission to the teacher education program (see “Admission Requirements for all Teacher Education Programs” at the beginning of the “Education” section of this catalog) may enroll in EDU 300, 305, 311, and 313.
  - (2) Admission to Professional Semester I  
To be admitted to professional semester I, students must have successfully completed the admission semester (achieving at least a C in EDU 300, 305, 311, and 313) and the admission practicum; submitted an acceptable portfolio; and been fully admitted to the teacher education program.
  - (3) Professional Semester I  
To successfully complete professional semester I and to be eligible to enroll in professional semester II or student teaching, students must complete PHE 430 and PHE 490 with at least a C and submit a acceptable portfolio. Note: Professional semester I and II do not have to be taken in order.
  - (4) Professional Semester II  
To successfully complete professional semester II and to be eligible to enroll in professional semester III, student teaching, students must complete PHE 480 and PHE 491 with at least a C and submit a acceptable portfolio.
  - (5) Professional Semester III: Student Teaching  
Students must complete an application for admission to student teaching in the professional semester I or II (whichever is taken last) prior to student teaching. To

receive admission to student teaching, students must have

- (a) earned an overall grade-point average of at least a 2.50;
- (b) completed all professional courses, practica, and related courses;
- (c) completed all coursework in physical education and minor areas with a grade-point average of at least 2.50;
- (d) earned a minimum of 91 semester hours (senior standing);
- (e) developed those professional characteristics deemed necessary for successful completion of student teaching;
- (f) passed a current medical examination, including a tuberculosis test, from a licensed physician;
- (g) completed two semesters in residence (a minimum of 24 semester hours);
- (h) received approval by the department of the student’s major;
- (i) received approval by the teacher education committee;
- (j) earned 150 clock hours (verified) of approved clinical/field experience at the appropriate level;
- (k) submitted an approved portfolio;
- (l) completed pre-student teaching interview

2. Physical Education P-12 Course Requirements

<i>a. Professional Education Courses</i>	
EDU 300 Human Growth and Development	3
EDU 305 Introduction to Education	2
EDU 311 Admission Practicum	2
EDU 313 Computer Applications for Teachers	1
PHE 430 Curriculum and Methods for Teaching Elementary Physical Education	3
PHE 490 Practicum in Teaching Elementary Physical Education	1
PHE 480 Curriculum and Methods for Teaching Middle and Secondary Physical Education	3
PHE 491 Practicum in Teaching Middle School and Secondary Physical Education	1
EDU 496 Student Teaching in Secondary School	<u>12</u>
Total	28
<i>b. Major Content Courses</i>	
PHE 125 Introduction to Physical Education	3
HEA 135 Safety and First-Aid	3
PHE 200 Concepts of Lifetime Fitness	2
PHE 230 Motor Skill and Fitness Activities for Children	3
PHE 240 Performance and Analysis of Sport Skills I (volleyball & soccer)	2
PHE 241 Performance and Analysis of Sport Skills II (baseball, golf & softball)	2
PHE 242 Performance and Analysis of Sport Skills III (tennis, badminton & other racquet sports)	2
PHE 243 Teaching Gymnastics	2
PHE 244 Swimming and Aquatic Activities (or PHE 318 Advanced Lifesaving or	2
PHE 319 Water Safety Instructor)	3
PHE 330 Motor Development	3
PHE 360 Statistics and Measurement in Physical Education	3
PHE 370 Biomechanics	3



PHE 385 Sociological and Psychological Dimensions of Sport and Physical Activity	3
PHE 440 Physiology of Exercise	3
PHE 500 Adapted Physical Education	<u>3</u>
Total	43-45

## c. Required Related Courses

BIO 208 Human Anatomy and Physiology I	4
BIO 208L Human Anatomy and Physiology I Laboratory	0
BIO 209 Human Anatomy and Physiology II	4
BIO 209L Human Anatomy and Physiology II Laboratory	<u>0</u>
	8

IFS 105, CSC 150 or a computer proficiency test (this is a prerequisite for EDU 313).

**B. Major in Recreation/Fitness Curriculum Requirements**

Students are interested in majoring in recreation/fitness should declare it as a major as soon as possible. This will result in assignment to a physical education adviser familiar with the current curriculum and with any impending changes that may occur. To receive a bachelor's degree, students must complete the core courses listed below in the recreation/fitness major and the University's general education requirements with an overall grade-point average of at least 2.50. Students seeking information about the program should contact the chair of Department of Educational Specialities.

BIO 126 Human Nutrition	3
BIO 208 Human Anatomy and Physiology I	4
BIO 208L Anatomy and Physiology I Laboratory	0
BIO 209 Human Anatomy and Physiology II	4
BIO 209L Human Anatomy and Physiology II Laboratory	0
PHE 125 Introduction to Physical Education	3
HEA 135 Safety and First Aid	3
PHE 240 Performance and Analysis of Sport Skills I	2
PHE 241 Performance and Analysis of Sport Skills II	2
PHE 242 Performance and Analysis of Sport Skills III	2
PHE 200 Concepts of Lifetime Fitness	2
PHE 330 Motor Development	3
PHE 360 Statistics and Measurement in Physical Education	3
PHE 370 Biomechanics	3
PHE 390 Practicum in Physical Education	1
PHE 391 Practicum in Recreation	3
PHE 392 Practicum in Fitness Assessment	3
PHE 440 Physiology of Exercise	3

PHE 450 Organization and Administration in Physical Education	3
PHE 465 Exercise Prescription	3
PHE 496 Field Experience in Recreation/Fitness	5
PHE 498 Senior Seminar in Recreation/Fitness	1
PHE 500 Adapted Physical Education	3
Electives (6 semester hours) chosen from the following or from other approved courses:	6
PHE 209 Intermediate Aerobics (1)	
PHE 245 Officiating Basketball (1)	
PHE 318 Advanced Lifesaving (1)	
PHE 319 Water Safety Instructor (2)	
CHE 115 Physiological Chemistry (3)	
CHE 115L Physiological Chemistry Laboratory (1)	
HSR 110 Activities Therapy (3)	
HSR 200 Introduction to Gerontology (3)	
HSR 251 Therapeutic Recreation (3)	
Total	65

**C. Health Education Certification P-12/Health Education**

Students who specialize in physical education P-12 are encouraged to also specialize in health education and complete requirements for certification. Students who complete a certification major program in education, or post-bachelor's students with teacher certification in Kentucky, may choose to complete the health education P-12 program and apply for certification. Students wishing to enroll must meet the "Admission Requirements for all Teacher Education Programs" listed at the beginning of the "Education" section of this catalog. Students must also successfully complete the following admission semester courses—EDU 300, 305, 311, 313 and EDS 322 with a C or better and be fully admitted to the teacher education program. Students interested in this program should consult with the chair of Educational Specialities. The following courses must also be completed with a GPA of at least 2.50 and an overall GPA of at least 2.50. Students who wish to minor in Health, without obtaining teaching certification must take only the content courses (29 credit hours) listed below, minus HEA 525 and HEA 498.

BIO 208 Human Anatomy and Physiology I	4
BIO 208L Human Anatomy and Physiology I Laboratory	0
BIO 209 Human Anatomy and Physiology II	4
BIO 209L Human Anatomy and Physiology II Laboratory	0
HEA 125 Introduction to Health Education	3
HEA 135 Safety and First Aid	3
HEA 160 Personal Health	3
HEA 170 Community Health	3
PHE 200 Concepts of Lifetime Fitness	2
HEA 320 Drug and Alcohol Education	3
HEA 350 Sexuality Education	3
HEA 489 Practicum in Teaching Health Education P-12	1
HEA 525 Methods and Materials in Health Education P-12	<u>3</u>
Total	32

**D. Major in Athletic Training**

The mission of the athletic training program (ATP) is to offer a program of excellence that will produce well-rounded and competent entry level athletic trainers. Program is designed to provide the tristate with highly qualified National Athletic Trainers' Association Board of Certification (NATABOC) Certified Athletic Trainers (ATC) for positions in orthopedic rehabilitation centers, wellness/fitness centers, high schools, college programs, and professional teams.

An athletic trainer is a qualified allied health care professional educated and experienced in the management of health care problems associated with physical activity. In cooperation with physicians and other health care personnel, the athletic trainer functions as an integral member of the health care team in secondary schools, colleges and universities, professional sports programs, sports medicine clinics, and other health care settings. The athletic trainer functions in cooperation with medical personnel, athletic personnel, individuals involved in physical activity, parents, and guardians in the development and coordination of efficient and responsive athletic health care delivery systems.

The athletic trainer's professional preparation is directed toward the development of specified competencies in the following domains: risk management and injury prevention, pathology of injuries and illnesses, assessment and evaluation, acute care of injury and illness, pharmacology, therapeutic modalities, therapeutic exercise, general medical conditions and disabilities, nutritional aspects of injury and illness, psychosocial intervention and referral, health care administration, and professional development and responsibilities. Through a combination of formal classroom instruction and clinical experience, the athletic trainer is prepared to apply a wide variety of specific health care skills and knowledge within each of the domains.

### Bachelor's of Science in Athletic Training

The program is an allied health degree offered through the Health and Physical Education section of the College of Education. The degree will provide an integrated didactic and clinical education program to prepare students for a career at a NATABOC Certified Athletic Trainer (ATC). The program is designed to meet the standards and guidelines of an accredited educational program for the athletic trainer, as mandated by the Commission on Accredited Allied Health Education Programs (CAAHEP).

The program is a 5 semester cohort program with an integrated clinical education component. The 58 semester hours of major coursework is designed to provide formal didactic instruction of the NATA educational competencies and clinical proficiencies: The clinical education component provides the student with a practical environment for the application of knowledge in skills that were acquired in the classroom.

### Accreditation

Athletic Training Education Programs are required to be CAAHEP accredited. Accreditation is necessary for program graduates to be eligible for the National Athletic Trainers' Association Board of Certification examination.

NKU's program has attained candidacy status. Candidacy is the two year process that must be completed prior to receiving CAAHEP accreditation. Candidacy acceptance infers that the program's didactic and clinical education plans meet the requirements for accreditation. Accreditation is not guaranteed. For further details regarding program status contact Trey Morgan, Athletic Training Program Coordinator at morgant@nku.edu or 859-572-1399.

### Transfer Students

Transfer students are required to satisfy the same program requirements and admission requirements as NKU students. Except for PHE 280, Introduction to Athletic Training, pre-professional courses may be taken at another institution and credit transferred to NKU if evaluated as equivalent coursework. PHE 280 has a specific course content and an associated clinical assignment that relates directly to ATP educational competencies and must be taken on NKU's main campus unless specified by the NKU athletic training program coordinator.

Transfer students will not be accepted directly into the Athletic Training Program and must begin at the entry level.

### Program Requirements

*Uniforms:* Students are required to purchase uniforms and nametags as designated by the ATP faculty. This uniform is required for all clinical assignments.

*Insurance:* All ATP students are required to carry malpractice insurance for the duration of enrollment in the program.

*Physical Examination:* Upon admission to the ATP students are required to complete a physical examination by an NKU team physician. The purpose of this exam is to ensure that the student's health and physical fitness will allow them to complete the duties required of an athletic trainer.

*Hepatitis B Vaccine:* Hepatitis B vaccine must be completed during the first semester in the athletic training program. The student is responsible for the cost. For information about where to receive the vaccine contact, Trey Morgan, ATP coordinator at morgant@nku.edu or 859-572-1399.

*Computer Proficiency:* The Athletic Training degree requires the completion of a computer course that will provide the student with the essential skills for computer usage in an administrative and instructional environment. Students must complete CSC 150, IFS 105 or equivalent.

*NATABOC Examination:* Students are encouraged to complete the NATABOC examination, but it is not a requirement for graduation.

### Admission Requirements

Minimum Admission Requirements:

- ACT composite score of 21, SAT combined score of 990, or approved scores on the PPST;
- sophomore status – minimum 30 semester hours;
- successful completion of pre-professional coursework with a minimum grade of C;
- completion of 75 hours of observation period with NKU Certified Athletic Trainers;
- Overall score of 2.5 on observation period evaluations;
- Minimum overall GPA of 2.5

### Admission Standards

Any student wishing to apply for admission into ATP must complete a two-part process.

#### 1. Pre-professional Component

The student's required to successfully complete selected coursework and observation. The coursework consists of nine classes (23 semester hours) which a student must earn a minimum grade of C and attain a cumulative grade point average of 2.5 to be eligible for the second next step.

##### a. Pre-professional courses

- PSY 100 Introduction to Psychology (3 semester hours)
- BIO 126 Human Nutrition (3 semester hours)
- HEA 135 Safety and First Aid (3 semester hours)
- HEA 160 Personal Health (3 semester hours)
- PHE 280 Introduction to Athletic Training (3 semester hours)
- BIO 208 Anatomy & Physiology I (4 semester hours)
- BIO 208L Anatomy & Physiology I Lab
- BIO 209 Anatomy & Physiology II (4 semester hours)
- BIO 209L Anatomy & Physiology II Lab

Total 23 semester hours

##### b. The Observation Portion

The observation portion of the pre-professional stage is completed as part of the PHE 280 Introduction to Athletic Training course requirements for any student interested in entering the ATP. Student is required to accumulate a minimum of 75 observations hours with an ATC at NKU's Athletic Training Room or associated clinical sites. Staff ATCs evaluate the student's performance and the student is required to receive a minimum 2.5 on 4.0 scale to be eligible for the next admission step.

## 2. Formal Application

Formal program application and admission occur during the fall semester. If admitted, student will begin the program the following spring semester. In order to be eligible for formal application, the student must attain at least sophomore status (30 semester hours) and satisfactory completion of the pre-professional component.

Conditional eligibility, based on expected course grade outcomes, can be offered to students enrolled in courses that will be completed by the end of their sophomore year.

All students must complete and submit a NKU ATP application by October 1 of the year the student is seeking admission.

Each student must submit a typed writing sample (one-page, double-spaced, 10pt font) addressing the following: "What do you believe is the most important attribute of an athletic trainer as an allied health care provider, and what attributes do you possess that will allow you to fulfill the role of an athletic trainer?"

Student must provide transcripts and/or proof of satisfactory completion of the pre-professional component.

## 3. Selective Admission

The Athletic Training Program has limited and selective enrollment. Available positions will be determined according to the set maximum number of program positions, number of students graduating, and attrition rate.

Students meeting the minimum requirements for formal application will be selected for admission to the ATP program according to the following objective selection criteria:

- cumulative GPA,
- pre-professional coursework grades,
- observation evaluations, and
- application quality.

Each will be weighted according to importance as follows:

1. 25% cumulative GPA
2. 25% pre-professional coursework grades
3. 35% observation evaluations
4. 15% application quality.

Overall score used to objectively rank students and students with the highest scores will be accepted until all available positions are filled. Students will be notified of the acceptance status by October 30 of the application year. Rejected students will be afforded the opportunity to reapply during the next application period. Accepted students begin the clinical rotations the spring semester following admission to the ATP.

## Athletic Training Program

- ATP 296 Athletic Training Clinical (1 semester hour)
- ATP 333 Lower Extremity Evaluation (3 semester hours)
- ATP 334 Upper Extremity Evaluation (3 semester hours)
- ATP 394 Athletic Training II (1 semester hour)
- ATP 396 Athletic Training III (1 semester hour)
- ATP 420 General Medical for Athletic Training (2 semester hours)
- ATP 425 Therapeutic Modalities (4 semester hours)
- ATP 430 Pharmacology for Athletic Training (3 semester hours)
- ATP 435 Administration of Athletic Health Care (3 semester hours)
- ATP 440 Rehabilitation of Athletic Injuries (4 semester hours)
- ATP 455 Current Issues in Athletic Training (1 semester hours)
- ATP 494 Athletic Training Clinical IV (1 semester hour)
- ATP 496 Athletic Training Clinical V (1 semester hour)

### Program Tracks

There are three tracks in this program.

1. Athletic training

2. Athletic training with content courses for P-12 certification (additional courses in education may be earned through the M.A.T. program)

3. Athletic Training with P-12 Physical Education Certification

## E. Minors

### 1. Minor in Physical Education

The minor in physical education is offered from existing courses as an option for students interested in the field of physical activity.

The courses selected provide an initial level of training appropriate for an academic minor at NKU. The physical education minor does not result in certification to teach physical education in the schools.

Students must achieve an overall GPA of a 2.50 or better; achieve a GPA of at least a 2.50 in physical education courses; and complete the following courses.

PHE 125 Introduction to Physical Education	3
PHE 135 Safety and First Aid	3
Any three of the following courses:	6
PHE 200 Concepts to Lifetime Fitness (2)	
PHE 240 Performance and Analysis of Sport Skills I (2)	
PHE 241 Performance and Analysis of Sport Skills II (2)	
PHE 242 Performance and Analysis of Sport Skills III (2)	
PHE 330 Motor Development	3
PHE 360 Statistics and Measurement in Physical Education	3
PHE 440 Physiology of Exercise	3
PHE 465 Exercise Prescription	3
Total	24

### 2. Minor in Athletic Training

The minor in Athletic Training allows students to develop the skills necessary for the athletic training profession. Note: Effective January 2004, the NATA will no longer certify students who have not completed a major program in athletic training. Students wishing to minor in athletic training must complete the following courses:

BIO 208 Human Anatomy and Physiology I	4
BIO 208L Human Anatomy and Physiology I Laboratory	0
BIO 209 Human Anatomy and Physiology II	4
BIO 209L Human Anatomy and Physiology II Laboratory	0
EMT 205 Emergency Medical Training or HEA 135	6
HEA 160 Personal Health	3
PHE 315 Basic Athletic Training	3
PHE 316 Advanced Athletic Training	3
PHE 370 Biomechanics	3
PHE 440 Physiology of Exercise	3
Total	29

## F. General Activity Courses

The physical education program also offers activity courses (e.g., tennis, badminton, golf, racquetball, swimming, conditioning) meeting two hours per week and carrying 1 semester hour of credit. Letter grades are based on physical, cognitive, and psychomotor behaviors demonstrated by students. Students furnish activity clothing and, in some cases, athletic equipment, although most of the equipment is provided. Some activity courses are offered at off-campus facilities and an additional fee may be charged to the student. Activity courses are designed to (1) teach those activities that may serve as lifetime sports and recreation during leisure time, (2) offer regulated and supervised activities to improve and maintain physical fitness and sport skills, and (3) develop a positive and intelligent attitude toward the need for and benefits of a physically active lifestyle.

# THE COLLEGE OF PROFESSIONAL STUDIES

## DEPARTMENTS

Communication, Nursing and Health Professions; Social Work and Human Services; Technology

## CONTACTING THE COLLEGE

The College of Professional Studies is located in AHC 215 and may be reached during business hours by telephone at 859-572-5568, or by facsimile at 859-572-6176. Interested persons are invited to browse the college's web site at [www.nku.edu/~cps](http://www.nku.edu/~cps).

Mr. J. Patrick Moynahan, <i>dean</i>	<a href="mailto:moynahan@nku.edu">moynahan@nku.edu</a>
Mr. Gary Scott, <i>associate dean</i>	<a href="mailto:scottg@nku.edu">scottg@nku.edu</a>
Dr. Ann Dollins, <i>assistant dean</i>	<a href="mailto:dollinsa@nku.edu">dollinsa@nku.edu</a>
Ms. Michelle Heatherton, <i>master adviser/lecturer</i>	<a href="mailto:heathertonm@nku.edu">heathertonm@nku.edu</a>
Ms. Brenda Jenkins, <i>administrative assistant</i>	<a href="mailto:jenkins@nku.edu">jenkins@nku.edu</a>
Ms. Judy Teegarden, <i>assistant</i>	<a href="mailto:teegarden@nku.edu">teegarden@nku.edu</a>

## PROGRAMS OFFERED BY THE COLLEGE OF PROFESSIONAL STUDIES

### Associate Degrees

#### *Applied Science*

Aviation Administration	Radiologic Technology
Construction Technology	Respiratory Care
Human Services	

### Bachelor's Degrees

#### *Bachelor of Science*

Business Education (teaching)	Industrial and Labor
Business Education/Organizational	Relations
Systems Technology	Industrial Education
—Non-Teaching Track	Mechanical/ Manufacturing
Construction Management	Engineering Technology
Computer & Electronics	Mental Health/Human
Engineering Technology	Services

#### *Bachelor of Arts*

Journalism  
Speech Communication  
Radio/Television  
Organizational Leadership  
Public Relations

#### *Bachelor of Social Work*

#### *Bachelor of Science in Nursing*

Traditional Four-Year Nursing Program  
Advanced Placement Program for Registered Nurses  
Accelerated Program

### Minors

Electronics Technology	Organizational Systems
Industrial & Labor Relations	Technology
Industrial Technology	Popular Culture Studies
Journalism	Radio/Television
Mental Health/Human	Social Justice
Services	Speech Communication

### Certificates

Architectural Drafting  
Leadership Development

Organizational Systems Technology  
Social Justice

### Graduate Programs (see *Graduate Catalog* for information)

#### *Master of Science in Nursing*

Nursing Administration  
Primary Care Nurse Practitioner

#### *Master of Science in Technology*

Industrial and Engineering Systems  
Technology Management  
Quality Assurance

Academic units in the College of Professional Studies prepare students for a variety of high-demand, professional careers in communication, nursing, technology, allied health, human services, and social work. The goal of the College is to offer curricula that provide professional preparation and give students the opportunity to acquire knowledge and skills necessary to assume positions in professional fields.

The College offers academic degree programs at both the undergraduate and graduate levels, including two master's, fifteen bachelor's, and five associate degrees. Nationally accredited professional programs include a solid foundation of study in liberal arts and sciences. In addition to their coursework, students receive field experiences linking the classroom to the working world. Students are exposed to the principles of career development, leadership, and professional ethics.

Through programs in nursing, radiologic technology, respiratory care, human services, and social work, students are prepared for careers in health and human services and for staff positions in hospitals, clinics, rehabilitation centers, and service agencies.

Preparation for careers in industry and business is provided by the Department of Technology. Graduates assume positions in construction, manufacturing, electronics and engineering technology, labor relations, organizational leadership, aviation, and organizational systems. Professional careers in print journalism, radio and television, and public relations are typical goals for graduates of the Department of Communication. Associate degree graduates in aviation administration, in partnership with the Department of Technology, are prepared for entry-level positions for airlines, major airports, government aviation agencies, and travel bureaus.

In addition to classroom instruction, most programs in the College offer practicum and internship opportunities. These programs are intended to give students supervised work experience in the discipline prior to graduation. Such experiences are considered an important supplement to knowledge received in the classroom and a valuable part of students' education. Because the talents and individual characteristics required for success in the various disciplines vary, some departments have established selective admission requirements. Interested students should refer to the information provided below under the appropriate department heading.

## COLLEGE ACCREDITATION/AFFILIATIONS

Accreditation Board for Engineering & Technology  
Council for Standards in Human Service Education  
Council on Social Work Education  
Joint Review Committee on Education in Radiologic Technology  
Committee on Accreditation for Respiratory Care  
National Association for Business Teacher Education  
National League for Nursing Accreditation Commission  
TAC/ABET

## COLLEGE-WIDE PRE-MAJOR AND SELECTIVE ADMISSION REQUIREMENTS

See individual departments section for specific admission requirements.

## COLLEGE-WIDE GRADUATION REQUIREMENTS

See individual departments section for specific admission requirements.

## STUDENT PROFESSIONAL ASSOCIATIONS/ ORGANIZATIONS

- Alpha Delta Omega - National Honor Society-- (Mental Health/ Human Services)
- Construction Technology Association
- Kentucky Association of Nursing Students
- Radiologic Technology Student Club
- Society for Human Resource Management
- Society Manufacturing Engineering
- Speech Communication Club

Student Social Work Club

## UNDECLARED STUDENTS—COLLEGE OF PROFESSIONAL STUDIES

Michelle Heatherton, Master adviser/Lecturer  
859-572-5839  
heathertonm@nku.edu

In an effort to better serve the needs of undeclared students, Northern Kentucky University has established new major codes. Students who are interested in one or more of CPS's academic units can now choose to be undeclared within the College of Professional Studies until they decide on a specific major. If students are interested in pursuing bachelor's degrees within the College, they can select the major code of "PS UNDB"; if they want to obtain associate's degrees, then they can choose "PS UNDA." The introduction of the college-specific, undeclared major codes allows students to receive more accessible and personalized academic advising from an individual who is familiar with the College's programs and admission requirements.

# Communication Department

## FACULTY

James Gaut Ragsdale, *chair*  
Stephen D. Boyd, Mary Carmen Cupito, Wendy Falato, Zachary Hart, Russell A. Jenisch, Yasue Kuwahara, Robert W. Mullen (emeritus) Russell F. Proctor II, Vicki Abney Ragsdale, Bradford W. Scharlott, Cady Short-Thompson, Karen P. Slawter, Christopher L. Strobel, Penelope B. Summers, Ann M. Taylor, David S. Thomson, Michael L. Turney, Steven M. Weiss.

## CONTACTING THE DEPARTMENT

The Department of Communication is located in LA 134 and may be reached during business hours by phone at 859-572-5435. Visit the department's website at <http://www.nku.edu/~communicate>.

James Gaut Ragsdale, *chair*                      ragsdale@nku.edu

## PROGRAMS OFFERED

### *Bachelor of Arts*

- Journalism
- Radio/Television
- Speech Communication
- Public Relations

### *Minors*

- Journalism
- Radio/Television
- Speech Communication
- Popular Culture Studies

## GENERAL EDUCATION COURSES OFFERED

- RTV 105 Race, Gender, and the Mass Media
- RTV 205 Introduction to Popular Culture and the Mass Media
- SPE 101 Principles of Speech Communication

## PRE-MAJOR AND SELECTIVE ADMISSION REQUIREMENTS

- See Speech Communication
- See Journalism

## COMMUNICATION

The faculty of the Department of Communication fosters an integrated approach to the study and practice of communication and emphasizes the fundamental role that communication plays in virtually all human endeavors. With offerings that encompass journalism, public relations, radio/television, and speech communication, the department stresses an academic and applied focus among the various communication specialties.

Communication courses offer students basic and advanced skills in written, spoken, and audiovisual communication. They also promote an understanding of the history, philosophy, and theories of interpersonal and mass communication as well as an awareness of the personal, social, psychological, and cultural impacts of communication. Whatever their specific focus—news writing, public speaking, communication law, criticism, production, or communication theory—the department's courses emphasize situational analysis, issue identification, problem-solving, message construction, and effective presentation.

The Department of Communication offers majors in journalism, public relations, radio/television, and speech communication for students who aspire to careers as professional communicators in fields such as newspaper journalism, magazine publishing, radio and television production, broadcast news, advertising and public relations, educational media, organizational communication, and teaching. Minors are offered in journalism, radio/television, speech communication, and popular culture. The department also offers students a wide range of courses that enhance their communicative abilities and support their interests and studies in other disciplines.

The major in public relations offers students a program of interdisciplinary study leading to career opportunities in public relations. The major has an academic and applied orientation and consequently students learn principles and engage in practices that prepare them for entry-level positions in public relations.

The major in journalism is for students interested in writing for newspapers, magazines, and electronic media. It offers a broad base of coursework designed to convey an understanding of the total mass media system coupled with an area of specialization.

The major in radio/television is for students planning careers in telecommunications. It encompasses performance, production, script writing, sales and advertising, management, and engineering. It also provides a firm foundation for graduate study in mass communication fields.

The major in speech communication provides a firm foundation for careers or graduate study in many fields. Among the most popular are management, education, sales, human resources, organizational communication, law, and training and development.

**JOURNALISM**

The journalism major is designed to provide students with fundamental skills and legal and ethical backgrounds in journalism and related fields.



JOU 230 Newswriting II	3
JOU 385 Law of Mass Communication	3
JOU 440 Ethics	3

Plus two elective Journalism courses at the 300-level or above, for a total of 21 hours for the minor.

Students must have either a grade-point average of at least 2.5 in the journalism minor or no grade lower than a C in any course required for the minor.

**PUBLIC RELATIONS**

The public relations program offers students a program of interdisciplinary study leading to career opportunities in public relations. The major has an academic and applied orientation, and, consequently, students learn principles and engage in practices that prepare them for entry-level positions in public relations.

**The Major in Public Relations**

JOU 100/RTV 100 Contemporary Mass Media	3
SPE 220 Interpersonal Communication	3
MGT 205 Intro to Business and Management or SPE 303 Organizational Communication	3
PRE 375 Principles of Public Relations	3
JOU 385 Law of Mass Communication	3
MKT 305 Principles of Marketing or RTV 308 Broadcast Sales & Advertising	3
SPE 340 Strategies of Persuasion or JOU 370 Advertising	3
JOU 130 Newswriting or RTV 265 Broadcast News Writing	3
PRE 376 Public Relations Writing or ENG 340 Business Writing or JOU 346 Copy Editing and Layout or ENG 391 Persuasive Writing	3
JOU 321 Publication Skills or PRE 410 Electronic Public Relations or SPE 370 Advanced Public Speaking	3
JOU 492 Mass Communications Research Methods	3
PRE 377 Public Relations Case Studies and Campaigns	3

One course from:

Applied Experiential Credit via a PRE 396 Public Relations Internship (1-3 credit hours, with a 1 hour prerequisite in a practicum) or PRE 499 Independent Study: Public Relations or PRE 296 Public Relations Practicum	3 3 3 <u>1-3</u>
<b>Total</b>	<b>39-41</b>

**Program Requirements**

- Students must have an ACT English score or an ACT composite score of 20 or higher (or the equivalent on a comparable test) before they may enroll in JOU 130 Newswriting I, which is a required course.
- To graduate students must have either a grade-point of 2.5 or higher in courses required for the major or no grade lower than a C in any course required for the major.
- Students majoring in journalism may not receive credit for more than 45 semester hours in JOU courses or their cross-listed equivalents. They must satisfy the oral communication requirement of general education by taking SPE 101.

**Bachelor of Arts in Journalism**

Requirements for the major in Journalism are:

JOU 100/RTV 100 Contemporary Mass Media	3
JOU 130 Newswriting I	3
JOU 230 Newswriting II	3
JOU 296 Practicum	1
JOU 321 Publication Skills	4
JOU 346 Editing and Layout	4
JOU 385 Law of Mass Communications	3
JOU 396 Internship or JOU 297 Advanced Practicum	1-3
JOU 440 Ethics and Media	3
JOU 492 Mass Media Research Methods	3

Plus two elective courses at the 300-level or above from the Communication Department.

<b>Total</b>	<b>35-36</b>
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\*The total hours for JOU 296, JOU 297, JOU 396 must be at least 3 but may not exceed 6.

**The Minor in Journalism**

Requirements for the minor in journalism are:

JOU 100 Contemporary Mass Media	3
JOU 130 Newswriting I	3

**RADIO/TELEVISION**

The radio/television program is designed to provide a wide liberal arts background in telecommunications that prepares students for a career in media or for graduate studies. The program offers a variety of courses that will develop the necessary skills and knowledge in the areas of (1) production, (2) management, (3) broadcast journalism, (4) media performance, (5) electronics, and (6) popular culture.

**Program Requirements**

The requirement for a radio/television major consists of eleven core courses and the courses listed in one of the sequences. When students declare a radio/television major, they should also choose to enter one of the eight sequences offered in: (1) Video Production, (2) Audio Production, (3) Media Performance, (4) Media Management, (5) Broadcast Journalism, (6) Visual Communications, (7) Electronics Technology, and (8) Telecommunication Studies.

To be considered for graduation, students must complete a minor in consultation with their major adviser. Some sequences require specific minors. Students must also receive a C or better in all required courses in the major.

RTV 260 and 265 require a minimum English ACT score of 20 for entrance.

## The Major in Radio/Television

### I. Core Courses

The core courses encompass five areas fundamental to the diverse field of telecommunications: writing, media and society, production, critical thinking and theory, and law and management.

RTV 100 Contemporary Mass Media (or JOU 100 Contemporary Mass Media)	3
RTV 110 Introduction to Telecommunications	3
RTV 215 Radio Production	3
RTV 205 Introduction to Popular Culture	3
RTV 210 Television Production I: Basic Production	3
RTV 215 Radio Production	3
RTV 260 Broadcast Writing or RTV 265 Broadcast News Writing	3
RTV 307 Broadcast Programming (or RTV 308 Broadcast Sales & Advertising or RTV 309 Broadcast Promotion)	3
RTV 400 Broadcast Criticism	3
RTV 430 Communication Theory (or SPE 430 Communication Theory)	3
JOU 385 Law of Mass Communications	3
SPE 220 Interpersonal Communication	3
Core Total	33

### 2. One of the following sequences

#### Video Production Sequence

RTV 305 Television Production II: Studio Production	3
RTV 310 Advanced News Production	3
RTV 450 Advanced Broadcast Writing (or RTV 265 Broadcast News Writing with RTV 260 in the core)	3
Applied RTV Course (Internship, practicum, special project, etc.)	3
Related Elective (Selected in consultations with adviser)	3
Total Track	15
Total - RTV Major	48

+ minor (selected in consultation with student's adviser)

#### Audio Production Sequence

RTV 230 Broadcast Announcing	3
RTV 320 Advanced Audio Production	3
RTV 450 Advanced Broadcast Writing (or RTV 265 Broadcast News Writing with RTV 260 in the core)	3
Applied RTV Course (Internship, practicum, special project, etc.)	3
Related Elective (Selected in consultation with adviser)	3
Total Track	15
Total - RTV Major	48

+ minor (selected in consultation with student's adviser)

#### Media Performance Sequence

RTV 230 Broadcast Announcing	3
RTV 315 Television Performance	3
RTV 325 Advanced Television Performance	3
Applied RTV Course (Internship, practicum, special project, etc.)	3
Related Elective (Selected in consultation with adviser)	3
Total Track	15
Total - RTV Major	48

+ minor (selected in consultation with student's adviser)

#### Media Management Sequence

RTV 307* Broadcast Programming	3
RTV 308* Broadcast Sales and Advertising	3
RTV 309* Broadcast Promotions	3
RTV 460 Broadcast Management	3

SPE 303 Organizational Communication	3
Applied RTV Course (Internship, practicum, special project, etc.)	3
Total Track	15
Total - RTV Major	48

+ minor (in business administration, economics, finance, information systems, journalism, speech, management, or marketing)

\*One of these courses is required in the core. The other two must be taken as part of the sequence.

#### Broadcast Journalism Sequence

RTV 310 Advanced News Production	3
RTV 361 Advanced Broadcast News Writing	3
RTV 365 Interviewing (or SPE 360 or Journalism 360)	3
Applied RTV Course (Internship, practicum, special project, etc.)	3
Related Elective (Selected in consultation with adviser)	3
Total Track	15
Total - RTV Major	48

+ minor (selected in consultation with student's adviser)

#### Visual Communication Sequence

JOU 321 Publication Skills	4
JOU 390 Digital Photography	3
RTV 422 Avid Editing	3
Applied RTV Course (Internship, practicum, special project, etc.)	3
Related Elective (Selected in consultation with adviser)	2
Total Track	15
Total - RTV Major	48

+ minor (selected in consultation with student's adviser)

NOTE: JOU 321 is a 4-hour course. Students in this sequence can complete a 2-hour applied course.

#### Electronics Technology Sequence

RTV 305 Television Production II: Studio Production	3
RTV 320 Advanced Audio Production	3
RTV 460 Broadcast Management	3
MAT 118 Technical Mathematics	3
Applied RTV Course (Internship, practicum, special project, etc.)	3
Total Track	15
Total - RTV Major	48

+ electronics technology minor

#### Telecommunication Studies Sequence

RTV 105 Race, Gender, and the Mass Media	3
RTV 311 History of Broadcasting (or JOU 421 History of Mass Communication)	3
RTV 370 International Media Systems (or SPE 355 Cross-Cultural Communications)	3
RTV 394 Special Topics in Popular Culture (or RTV 499 Independent Study)	3
Related Elective (Selected in consultation with adviser)	3
Total Track	15
Total - RTV Major	48

+ minor (selected in consultation with student's adviser)

## The Minor in Radio/Television

Students who wish a minor in radio/television must arrange specific details of the requirements with a radio/television faculty adviser.

The requirements for a minor in radio/television are:

RTV 100 Contemporary Mass Media (or JOU 100)	3
RTV 110 Introduction to Telecommunications	3
RTV 215 Radio Production	3

RTV 210 Television Production I: Basic Production	3
Electives - four RTV electives chosen in consultation with RTV adviser	<u>12</u>
<b>Total Hours Required</b>	<b>24</b>

ENG 365 American Folklore or HIS 390 History and Film  
RTV 499 Independent Study in Popular Culture

*Electives (9 credit hours)*

\*take one course from at least **two** of the following five categories  
\*credit hours must be taken at 300-level and above

*American Culture and Society*

ENG 353 Contemporary American Novel  
ENG 370 Focus on United States Civilization  
HIS 314 Rise of the Industrial United State, 1865-1990  
HIS 315 Modern United States History, 1900-1939  
HIS 316 Modern United States History Since 1939  
HIS 454 Early American Frontier  
HIS 455 Later American Frontier  
EDU 316 Racism and Sexism in Educational Institutions  
JOU 421 History of Mass Communication *or*  
RTV 311 History of Broadcasting  
JOU 440 Ethics Issues and Media  
JUS 101 Introduction to Criminal Justice  
JUS 231 Race, Gender and the Law  
PSC 319 Presidential Elections  
RTV 105 Race, Gender, and the Mass Media  
SOC 307 Social Stratification

Students must receive a C or better in any RTV courses taken to fulfill the requirements of the minor.

Note: Elective courses may only be used to satisfy one major/minor requirement. This may apply to general education as well. No “double dipping” is allowed, except in those situations where a course is required in both the major and minor. For example, a student in the video production sequence may not use RTV 265 to satisfy the core requirement and sequence requirement. A student may not take SPE 360 for his major sequence requirement and as an elective as a speech minor. An RTV major/minor cannot use RTV 105 to satisfy a requirement in a sequence and as a general education requirement. JOU 385 may be used as a major and minor requirement (RTV major/JOU minor), as both are required courses in each discipline. RTV 205 *may* be used for major and general education.

## POPULAR CULTURE STUDIES

Offered by the Department of Communication, 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 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. The program is designed to equip the student with tools to analyze the world from the standpoint of popular culture. Students will gain familiarity with such concepts as the meaning of beliefs and the significance of icons, heroes, rituals, stereotypes, popular art, and relate those ideas to specific topical interests of their choice.

The program consists of 21 credit hours, including specific popular culture courses and courses taken from the various departments of the university. In consultation with an adviser, students will identify a particular topic of concentration or theme and then select courses from a variety of course offerings. The courses chosen must relate to a particular topic or theme. Twelve (12) of these hours are required courses: RTV 205, JOU/RTV 100, ENG 365, and RTV 498. The required courses will assist students in understanding the differences as well as the fluid relationships between folk, popular, and elite culture. All students must complete the required introductory course (RTV 205), which introduces them to the field of popular culture studies, including its major areas. Since the mass media are the chief disseminators of popular culture, students are required to take JOU/RTV 100, which examines the roles of functions of mass media in today’s society. Students then must take either American Folklore (ENG 365) or History and Film (HIS 390), depending on their interests. An additional 9 semester hours of elective courses are chosen by the student and adviser based on the student’s topic of concentration. To finish the required coursework for the minor, all students must complete an independent study (RTV 495), which gives them the chance to read and discuss topics of interest and which will culminate their coursework as a capstone experience.

Due to the unusual nature of the program, the student-adviser relationship is very important. Only through careful consultation can an individual program be worked out which will satisfy the needs of the student and at the same time meet the requirements of the program. Students interested in the minor must meet the program director prior to declaring the minor in order to discuss their interest and establish their individual programs and rationale for course selection.

## Popular Culture Studies Minor Program Requirements (21 credit hours are required)

### *Required Courses (12 credit hours)*

RTV 205 Introduction to Popular Culture  
JOU/RTV 100 Contemporary Mass Media

### *Subgroups (Regional Cultures/Diversity/Ethnic Groups) in America*

AFR 100 Introduction to Afro-American Studies  
ANT 231 Modern American Indians  
ENG 210 Survey of African American Literature  
ENG 305 American Women Writers  
ENG 354 Southern Women Writers  
ENG 355 Women’s Autobiographical Writing  
ENG 367 Topics in African American Literature  
GEO 302 Cultural Geography  
GEO 309 Historical Geography of the United States  
HIS 317 History of the New South  
HIS 431 Historical Themes in African-American History  
HIS 444 History of Women in the United States to 1900  
HIS 445 History of Women in the United States since 1900  
HIS 541 History of Kentucky  
PSC 328 State and Urban Problems  
PSY 201 Psychology of Race and Gender *or*  
PSY 308 Psychology of Gender  
SOC 250 Women in Society *or*  
WMS 150 Introduction to Women’s Studies  
SOC 300 Race and Ethnic Relations  
SPI 311 Spanish-American Culture and Civilization  
WMS 310 Women, Wages, and Work

### *International Perspective*

ANT 240 Peoples of Africa  
ANT 245 Peoples of Latin America  
ANT 360 Indians of Mexico and Guatemala  
ANT 362 Japanese Culture and Society  
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 Recent Latin American History  
HIS 329 History of the Middle East  
HIS 413 History of Nazi German  
HIS 473 Battles and Behavior I  
HIS 474 Battles and Behavior II  
HIS 565 Vietnam War  
SOC 301 World Patterns or Race and Ethnicity  
SPE 355 Cross-Cultural Communication



## SPE 310 Spanish Culture and Civilization

*Traditional Arts and Humanities*

ART 102 Survey of Western Art II  
 ART 103 Survey of Western Art III  
 ART 321 History of Design  
 ARTP 290 Basic Photography  
 DAN 427 Dance History  
 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 266 Folklore and Literature  
 ENG 302 Literature and Film  
 ENG 315 The Bible as Literature  
 ENG 386 Children's Literature  
 HIS 421 Cultural and Intellectual History of the U.S. to 1865  
 MUS 110 Appreciation of Jazz  
 RTV 380 Documentary Theory and History  
 RTV 400 Broadcast Criticism  
 TAR 455 Musical Theater Literature II

*Social and Behavioral Sciences*

ANT 275 Language and Culture  
 ANT 320 Religion and Culture  
 ANT 358 Anthropology and the Arts  
 ECO 320 History of Economic Thought  
 HSR 314 Death, Dying, and Grief  
 JOU 370 Principles of Advertising *or*  
 MKT 308 Advertising and Promotion  
 PRE 375 Principles of Public Relations  
 MKT 320 Consumer Behavior *or*  
 PSY 304 Consumer Psychology  
 PSY 205 Psychology of Human Sexuality  
 PSY 340 Social Psychology *or*  
 SOC 303 Social Psychology  
 PSY 345 Human Factors Psychology *or*  
 PSY 348 Environmental Psychology  
 SOC 205 Current Social Issues  
 SOC 213 Sociology of Aging  
 SOC 308 Social Organization  
 SOC 315 Marriage and the Family  
 SOC 400 Urban Society

\*Topics courses, i.e., ENG 351 Nineteenth Century American Literature, ENG 397 Special Topics in American Literature, MKT 394: Topics: Marketing Issues, RTV 395 Special Topics in Popular Culture and SOC 300 Topics in Sociology, may be taken and applied toward the minor upon prior approval of the program director.

\*Students who wish to substitute a course not listed above for an elective course must obtain prior approval of the program director.

\*Students cannot count the courses required for their majors as the elective courses for the minor.

--To satisfy the requirements for a minor in Popular Culture Studies, students must maintain a grade-point average (GPA) of 2.00 or better and earn at least a *C* in required courses.

**SPEECH COMMUNICATION**

The speech communication 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 speech communication or related fields.

**PRE-MAJOR REQUIREMENT FOR SPEECH COMMUNICATION**

Prospective SPE majors must have a minimum cumulative GPA of 2.50 after 45 credit hours of coursework before they will be admitted to the major. Those 45 hours must include SPE 101 and SPE 220.

**The Major in Speech Communication**

Students majoring in speech communication must satisfactorily complete 39 credit hours of study as outlined below, must earn a grade of *C* or better in each of these 39 semester hours of study, and must take SPE 101 as part of their general education requirements.

1. *Core courses*

SPE 220 Interpersonal Communication	3
SPE 230 Small Group Communication	3
SPE 303 Organizational Communication	3
SPE 340 Strategies of Persuasion <i>or</i>	
SPE 310 Argumentation	3
SPE 370 Advanced Public Speaking	3
SPE 390 Cross-Cultural Communication	3
SPE 430 Communication Theories <i>or</i>	
SPE 410 Rhetorical Theories	3
Total Core	21

2. *Elective Courses (12 semester hours)*

Students majoring in speech communication must take 12 semester hours of elective courses selected in consultation with their adviser. Up to six of these semester hours may be taken in JOU, PRE, and/or RTV courses; otherwise, all elective credit must be in SPE courses. Courses taken for general education credit may not be used as elective courses for the major.

3. *Writing Course (3 semester hours)*

One writing-intensive course must be taken from the list below. Other writing-intensive courses may be substituted if approved by the SPE faculty. **Students may not use the writing course for the SPE major to complete requirements for their minor, area of concentration, or second major.** Prerequisites may be required for some of these courses; please consult catalog.

ENG 340 Business Writing (3)  
 ENG 391 Persuasive Writing (3)  
 JOU 130 Newswriting I (3)  
 OST 311 Written Communication Systems (3)  
 RTV 260 Broadcast Writing (3)

4. *Computer Course (3 semester hours)*

One computer-intensive course must be taken from the list below. Other computer-intensive courses may be substituted if approved by the SPE faculty. **Students may not use the computer course for the SPE major to complete requirements for their minor, area of concentration, or second major.** Prerequisites may be required for some of these courses; please consult catalog.

CSC 150 Computer Concepts and Applications (3)  
 IFS 105 Introduction to Business Computing (3)  
 JOU 321 Publication Skills (3)  
 OST 325 Electronic Publishing/Presentation Technologies (3)

Total - SPE Major 39

**The Minor in Speech Communication**

SPE minors must earn a grade of *C* or better in 21 semester hours of study in SPE courses, including SPE 220 (Interpersonal Communication). SPE minors must take SPE 101 as part of their general education requirements.

# Nursing and Health Professions Department

## FACULTY

Margaret M. Anderson, *chair*

Louise M. Niemer, *director, bachelor of science in nursing program*

Carrie A. McCoy, *director, accelerated bachelor of science in nursing program*

Ann Keller, *director, bachelor of science in nursing for registered nurses program*

Denise Robinson, *director, master of science in nursing program*

Trina L. Koscielicki, *director, radiologic technology*

Robert A. Langenderfer, *director, respiratory care*

## NURSING FACULTY

Nancy Brashear, Joy A. Churchill, Marian Cummins, Adele Dean, Ann Dollins, Judi Frerick, Mary A. Gers, Virginia Hedger, Beth Hickey, Dana Hickman, Ann Schmidt Luggen, Caron Martin, Cheryl L. McKenzie, Sara Mohn, Judy Niemi, Kris Pfendt, JoAnn Randolph, Erin Robinson, Sandra Turkelson

## RADIOLOGIC TECHNOLOGY FACULTY

Cindy Conway, Andrea J. Cornuelle, Diane H. Gronefeld

## RESPIRATORY CARE FACULTY

Debra K. Kasel

## CONTACTING THE DEPARTMENT

The Department of Nursing and Health Professions is located in AHC 303 and may be reached during business hours by phone at 859-572-5248. Visit the department's website at <http://www.nku.edu/~nursing>.

Dr. Margaret M. Anderson, *chair*                      [andersonm@nku.edu](mailto:andersonm@nku.edu)

## PROGRAMS OFFERED BY THE DEPARTMENT

The Department of Nursing and Health Professions offers two degree programs preparing men and women for two levels of nursing practice: the Bachelor of Science in Nursing, and the Master of Science in Nursing. The Bachelor of Science is offered as a traditional four-year program, an advanced placement program for registered nurses, and an accelerated program for students holding a baccalaureate degree in a different field. The department also offers the Associate of Applied Science in Respiratory Care and Radiologic Technology.

## DEPARTMENT POLICIES

The department reserves the right to change the program of study as needed to fulfill state approval and national certification. These include: National League for Nursing Accrediting Commission (NLNAC) 61 Broadway, New York, NY 10006, Kentucky Board of Nursing, Joint Review Committee on Education in Radiologic Technology (JRCERT), the Committee for Accreditation for Respiratory Care (COARC), and/or University requirements.

## BACCALAUREATE DEGREE PROGRAMS IN NURSING

### Traditional Four-Year Baccalaureate Nursing Degree Program

The curriculum of the baccalaureate degree program (BSN) is based on concepts and theories of nursing, liberal arts, and the sciences. The nursing process is incorporated throughout the curriculum. Carefully planned clinical experiences are an integral part of each nursing course, beginning in the second semester and continuing throughout the four years.

Hospitals and health care agencies in northern Kentucky and greater Cincinnati serve as clinical practice settings during day and evening hours.

Graduates of the program are prepared to function as a provider of care, a manager of care, and a member of the discipline of nursing. They use critical thinking, communication, and technical skills in providing care to individuals and families. Knowledge is specific and factual and can be applied directly to practice.

Graduates are awarded the degree of Bachelor of Science in Nursing and are eligible to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN) and to continue their education at the masters and doctoral levels.

## Accreditation

The program is approved by the Kentucky Board of Nursing, Suite 300, 312 Whittington Parkway, Louisville, KY 40222-5172; phone 502-329-7000 and is accredited by the National League for Nursing Accreditation Commission (NLNAC), 61 Broadway, New York, NY 10006; phone 212-363-5555.

Applicants please note: The Kentucky Board of Nursing has regulations regarding previous felony and misdemeanor convictions that must be addressed prior to sitting for the licensure examination.

## Pre-Major and Selective Admission Requirements

Upon completion of all required developmental coursework students enrolled in the University may declare the pre-nursing baccalaureate as their major. Students majoring in pre-nursing will be advised by a member of the nursing faculty to help them develop a plan for nursing education at Northern. Pre-nursing students may enroll in courses that fulfill pre-admission requirements and general education and/or in support courses required for the baccalaureate degree nursing program. However, students must be admitted to the nursing program in order to take courses in nursing. Students enrolled in courses as a pre-nursing major should declare (XNRS) as their major.

## Admission Requirements

Admission to the baccalaureate degree program is selective. Applicants who meet minimum requirements for admission will be admitted to an applicant pool until January 31st. After this date, applicants with the highest qualifications will be given priority consideration for admission to the BSN program. Applications submitted after January 31st will be considered on a space-available basis or applied to the following academic year candidate pool.

Applicants wishing to be *considered* for admission must

1. be admitted to Northern Kentucky University; any restrictions or stipulations must be removed;
2. submit a baccalaureate degree nursing program application (this is in addition to the University application);
3. submit official transcripts indicating completion of high school, or equivalent GED);
4. submit evidence of completion of high school biology and chemistry (or college equivalent) with a grade of *C* or better;
5. meet University pre-college requirements;
6. submit transcripts of all prior college work and nursing courses taken (including practical nursing school), if applicable;
7. achieve a minimum composite of 20 on the American College Test or a college/university grade-point average (GPA) of at least 2.5 for a minimum of 24 semester hours completed at an accredited institution;
8. submit evidence of a cumulative grade-point average (GPA) of at least 2.5 for all college/university courses completed.

## Other Relevant Admission Considerations

Post-bachelor's degree applicants must meet requirements 1, 2, 4 and 6, above. A license in practical nursing meets the high school biology requirements.

Previously earned college credits for the science courses required for the nursing program, i.e., BIO 202-202L, 208-208L, 209-209L, and CHE 115-115L, will be accepted only if completed with a grade of *C* or better within eight years prior to the date of admission to this program.

The American College Test (ACT) is required for those applicants with fewer than 24 semester hours from an accredited institution.

All applicants transferring from a non-accredited institution are required to take the American College Test (ACT).

A personal interview may be requested by the Nursing Admissions/Readmissions Committee.

Admitted students must

1. maintain the GPA originally required for admission;
2. submit a completed health form and immunization record prior to beginning clinical courses;
3. provide proof of CPR certification prior to beginning clinical courses;
4. purchase professional liability insurance through Northern Kentucky University (paid with tuition);
5. purchase appropriate uniforms prior to the first day of clinicals;
6. provide own transportation to clinical agencies;
7. provide proof of health insurance coverage or sign a health insurance waiver.

### Transfer Students

Students previously enrolled in another NLNAC accredited program in nursing may be eligible to transfer into the nursing program at Northern.

In addition to the requirements listed above, the following apply to all transfer students:

1. Transfer students are considered on a space-available basis. Eligibility is determined by the Nursing Admission/Readmission/Promotion & Graduation Committee.
2. The following must be submitted:
  - a. A letter from the director of the previous program attended explaining the reasons for withdrawal.
  - b. Official transcripts of all college work attempted.
  - c. Syllabi of all nursing courses taken.
3. An interview may be requested, by APG Committee.
4. 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.
5. The last 30 semester hours of the major must be completed at Northern Kentucky University.

### Advanced Standing for Licensed Practical Nurses

Application may be made for advanced standing in the baccalaureate degree program by licensed practical nurses who have been accepted into the program.

The licensed practical nurse must have completed a practical nursing program within the past four years or be actively employed as a LPN.

Testing dates for advanced standing may be obtained by contacting the Department. An advanced standing examination may be taken only once.

All students are required to complete the last 30 semester hours of the major at Northern Kentucky University.

### Progression

Students wishing to pursue the baccalaureate degree program may take the general education support courses required prior to admission to the program. However, students must be admitted to the baccalaureate degree nursing program in order to take courses in nursing.

Upon matriculation into the baccalaureate degree program, students must take the last 30 semester hours at NKU.

Students are required to complete the nursing program within eight years of the first date of admission to the program.

To continue in the nursing program, students must maintain a grade-point average of at least 2.00 and achieve a grade of C or higher in all required nursing, biology, and chemistry courses.

Students withdrawing from the nursing program for any reason must have an exit interview with the program director and/or faculty adviser, and must complete and sign a withdrawal form.

Students may repeat only one semester of nursing. If a component or components of a clinical nursing course is repeated, all components of the course must be taken together.

Students may repeat only one semester of science courses.

Students may be eligible to apply to the Kentucky Board of Nursing for NCLEX testing following successful completion of the 3rd year of the BSN program. Criteria are described in the BSN Student Handbook.

### Readmission

Applications for readmission to the nursing program will be considered on an individual basis. Students must submit an application for readmission to the Admissions, 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 and/or faculty adviser. Application forms are available from the Office of Admissions. Application must be made by 31 January for fall semester and 1 October for spring semester.

To be considered for readmission, a student reapplying to the baccalaureate degree program must have a grade-point average of 2.00 or better and be able to complete the program of study within eight years of the initial entry into the nursing program.

The faculty may state that written, specific conditions be met by the student when recommended for readmission.

Students may repeat only one semester of nursing. If a component or components of a clinical nursing course is repeated, all components of the course must be repeated together.

A student who did not successfully complete the first semester of the nursing program must apply as a new student and meet all requirements listed under "Admission Requirements."

Students who have been dismissed from the nursing program are not eligible for readmission (see Baccalaureate Degree Nursing Program Student Handbook).

Students readmitted to the program are subject to the requirements of the catalog in effect for all nursing courses at the time of re-entry.

### Student Advising

Upon admission to the nursing program, students are assigned to a faculty academic adviser and are required to meet with this adviser at least once each semester. Students are encouraged to maintain regular contact their adviser so that progress and performance can be discussed and counseling provided as necessary.

### Program of Study

Students must fulfill all requirements for the baccalaureate degree program, including required general education courses, support courses, and nursing courses.

#### General Education Courses (33 semester hours)

ENG 101 College Writing	3
ENG 291 Advanced College Writing	3
SPE 101 Principles of Speech Communications	3
Literature Elective	3
History Elective	3
Social Science Elective	3
Humanities Elective	6
Race and Gender Elective	3
Non Western Elective	3
300-level Elective	3

#### Support Courses (31 semester hours)

BIO 208/208L Human Anatomy & Physiology I	4
BIO 209/209L Human Anatomy & Physiology II	4
BIO 202-202L Microbiology for the Health Professions	4
BIO 126 Human Nutrition	3
CHE 115/115L Physiological Chemistry	4
PHI 220 Health Care Ethics	3
PSY 220 Life Span Development	3

PSY 100 Into to Psychology	3
MAT 205 Introduction to Statistical Methods	3

The sequential progression of the BSN program requires that the above general education and support course requirements be taken as prerequisites or corequisites to designated nursing courses.

#### *Nursing Course Requirements (70 semester hours)*

NRS 103 Introduction to Professional Nursing	1
NRS 104 Nursing Care Concepts I	2
NRS 104L Nursing Care Concepts I Lab	1
NRS 196 Clinical Practicum I	1
NRS 105 Pharmacology	2
NRS 204 Nursing Care Concepts	4
NRS 204L Skills Development II Lab	1
NRS 296 Clinical Practicum II	4
NRS 205 Holistic Nursing Assessment	2
NRS 205L Holistic Nursing Assessment Lab	1
NRS 206 Nursing Specialties	6
NRS 298 Nursing Specialties Clinical Practicum	4
NRS 304 Nursing Care Concepts III	6
NRS 306 Critical Care Concepts	3
NRS 321 Professional Issues	3
NRS 332 Nursing Theory	3
NRS 396 Clinical Practicum III	4
NRS 398 Role Transition Practicum	5
NRS 404 Community Health Nursing	3
NRS 406 Nursing Leadership	4
NRS 421 Nursing Research	3
NRS 496 Community Health Practicum	4
NRS 498 Nursing Leadership Practicum	4

### **Bachelor of Science for Registered Nurses**

The bachelor's degree program (BSN) provides career mobility for the registered nurse. A substantial background in the liberal arts is an integral part of preparation for professional nursing. The upper-division curriculum 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 co-workers for the enhancement of their knowledge and skills, thereby effecting change to promote quality nursing care for clients in any health care setting. The registered nurse to bachelor's degree program is designed to provide a foundation for higher degree programs in nursing. The department reserves the right to change the program of study as needed to fulfill national certification, approved by the Kentucky Board of Nursing, and/or University requirements.

Graduates are awarded the Bachelor of Science in Nursing degree.

### **Accreditation**

The BSN program is fully accredited through the National League for Nursing Accreditation Commission (NLNAC), Council of Baccalaureate and Higher Degree Programs, 61 Broadway, New York, NY 10006; phone 212-363-5555.

### **Student Advising**

All students considering admission to the registered nurse to bachelor's degree program are advised to contact the RN-BSN degree faculty regarding criteria for admission and guidance in course selection. Students are expected to maintain close contact with their adviser throughout the program of study. It is the responsibility of the student to initiate at least one advising session each semester. Prior consent of the adviser should be obtained before registering for any courses. Students are cautioned not to rely on the advice of other students regarding the applicability of courses.

### **Pre-Major and Selective Admission Requirements**

Students enrolled in courses at Northern Kentucky University preparing for admission to the registered nurse to bachelor's degree program should declare as their major Pre-Baccalaureate Nursing (XNRB). Upon acceptance to the program, students are assigned to a faculty adviser and must declare the major of bachelor's in nursing (NURB).

### **Admission Requirements**

The applicant will

- complete an application for admission to Northern Kentucky University;
- in addition to the University application, submit the Registered Nurse to Bachelor's Degree Nursing Program application to the Department of Nursing (applications obtained from and returned to the Department of Nursing);
- submit to the Office of Admissions
  - official transcripts from an associate degree or diploma program in nursing;
  - official transcripts of all post-secondary work completed.
- meet the following criteria:
  - be admitted to Northern Kentucky University;
  - possess a cumulative grade-point average of 2.50 or higher on a 4.00 scale;
  - hold current RN licensure. Proof of Ohio and Kentucky licensure is mandatory prior to the first day of any clinical course;
  - complete each of the following prerequisite courses or its equivalent by taking the course in a college or university or by taking proficiency examinations.

Human anatomy and physiology	6-8
Microbiology with laboratory	3-4
English composition	6
Psychology	3
Human growth and development	3
Sociology/Anthropology	3
Statistics	3-4
General education	27
Ethics	3
Electives	27-28
<b>Total</b>	<b>84-89</b>

Courses required as prerequisites for admission will be applied toward the general education requirements where applicable.

### **Accelerated Bachelor of Science in Nursing**

The Bachelor of Science in Nursing (BSN) program provides preparation for registered nursing practice. The curriculum is comprised of both didactic and clinical components and includes a sequence of courses in nursing theory.

The curriculum blends scientific and humanistic theories with nursing theories to provide graduates with a foundation for professional nursing practice. The B.S.N. program is designed to provide a foundation for higher degree programs in nursing.

Faculty members hold a doctoral or master's degree and many are certified within their individual areas of specialty. Members of the faculty continue to practice in health care, and participate in research and other scholarly endeavors.

Graduates of the BSN program are awarded the degree of Bachelor of Science in Nursing, and are eligible to apply to take the NCLEX-RN exam for licensure as a registered nurse.

The accelerated BSN Program is designed for Bachelor's prepared or post-baccalaureate individuals who want to make a career change. The course requirements for the accelerated program are the same as those provided in the traditional BSN and pre-requisites are required. However, the accelerated program is fast-paced and rigorous incorporating an entire 4-years of nursing courses into sixteen (16) to eighteen (18) months. The

accelerated program is designed for non-working, full time students who can immerse themselves into the content.

The program is approved by the:

Kentucky Board of Nursing  
312 Whittington Parkway, Suite 300  
Louisville, KY 40222-5172  
1-502-329-7000

The program is accredited by:

National League for Nursing Accreditation Commission (NLNAC)  
61 Broadway  
New York, NY 10006  
1-212-363-5555

### Student Advising

All students contemplating admission to the Accelerated BSN Program are advised to contact the director of the program to be advised regarding admission requirements. Students admitted to the Accelerated BSN Program are assigned an adviser and are expected to maintain close contact with their adviser 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 Accelerated BSN Program is highly selective. Priority admission will be given to students whose academic record reflects strength in the sciences and math.

1. Graduate of an accredited college or university with a bachelors or higher degree.
2. Admitted to the University as a degree-seeking student with post-baccalaureate status without restrictions.
3. Minimum cumulative GPA of 2.7 on a four-point scale.
4. Completion of the following pre-requisite courses with a grade of at least a "C". Pre-requisites taken at another university are not considered completed until the course has been transferred to Northern Kentucky University and posted on the student's NKU transcript. **NO EXCEPTIONS.**

\* One full year of anatomy and physiology with labs (BIO 208, 208L, BIO 209, 209L)

\* Chemistry with a lab (CHE 115, 115L; or CHE 120, 120L, CHE 121, 121L.

\* Microbiology with lab (BIO 202, 202L)

\* Health Care Ethics (PHI 220; PHI 155 will be accepted as an alternative)

\* Nutrition (BIO 126)

\* Introductory Statistics (MAT 205)

\* Growth and Development (PSY 220 or EDU 300)

5. The applicant has no previous failures within the past four years in any of the pre-requisite courses.
6. All pre-requisite science courses must be less than 8 years old as of the first day of the semester in which the accelerated program is started.
  - a. Students that have not yet completed their degree, but wish to pursue a nursing degree after completion of their bachelor's degree in another field, may apply in the semester prior to graduation provided they meet the above criteria. Students must have a letter from their academic adviser indicating that the student will graduate prior to the semester in which they plan to start the Accelerated BSN Program.
  - b. Students who have not completed all of the pre-requisites (see below) may apply to the program when they have completed at least two natural science pre-requisite courses with a grade of "C" or better. Students with pre-requisites remaining must submit a plan to complete all pre-requisites prior to the first semester of the accelerated program. Students who have not yet completed

all pre-requisites but meet other admission criteria will be accepted into the applicant pool.

- c. A waiver to the 8-year requirement may be requested if the applicant believes he/she can demonstrate current knowledge related content of the course he/she wishes to have waived (e.g. Registered Dietician currently working as a dietician, educator teaching the course content). All requests for waivers must be made in writing to the Chair of the Admission, Progression and Graduation Committee and must accompany the application for admission with documentation of the course content.

### Admission Procedure

1. Apply to the University as a degree-seeking student with post-bachelor status.
2. Declare pre-nursing as your major (XNRS).
3. Send copies of official transcripts from all colleges previously attended to the Office of Admissions, Northern Kentucky University (if applicable).
4. After receiving official notice of admission to the University as a degree-seeking student without restrictions and completion of at least two Natural Science pre-requisite courses with a grade of "C" or higher, complete a separate application for admission to the Accelerated BSN Program. On the application, check Accelerated BSN Program.
5. Include with the application your plan for completion of all pre-requisites prior to starting the Accelerated BSN Program and any requests for waivers addressed to the chair of the Admission, Progression and Graduation Committee.
6. Mail or hand deliver application to: Attention: Admission Progression and Graduation Committee, Department of Nursing, Northern Kentucky University, 303 Albright Health Center, Highland Heights, KY 41099.

### Progression

1. Students admitted to the Accelerated BSN Program are subject to the program requirements of the catalog in effect at the time of entry.
2. Upon matriculation into the Accelerated BSN Program, students must take the last 30 semester hours at NKU.
3. The program of study must be completed within two years of the first date of entering the program.
4. Students are expected to progress sequentially through the nursing program.
5. 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. A grade of "C" or higher must be achieved in all nursing courses in order to proceed to subsequent nursing courses.
7. 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.
8. Students must concurrently take and pass nursing courses that are co-requisites.
9. Failed nursing courses (grade below a "C") may not be repeated in the accelerated program.

### Readmission

Students who fail a nursing course in the accelerated program (grade below a "C") are not eligible for readmission to the accelerated program. Students may apply for admission to the traditional baccalaureate program.

**Applicants please note:** 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.

## RADIOLOGIC TECHNOLOGY

The curriculum of the associate degree program in radiologic technology is a 22-month program that prepares students for entry-level work in the radiology specialty of radiography (diagnostic x-ray). Graduates are competent in routine radiographic and fluoroscopic diagnostic procedures as well as in selected specialized procedures.

Education for the radiography student is an integrated plan of classroom, laboratory, and clinical education. Courses include patient care, human structure and function, radiation biology and protection, principles and techniques of diagnostic imaging, radiation physics, and image evaluation. In addition to their regular classroom coursework, students spend an average of 20 hours per week practicing their skills at one of the following clinical sites:

St. Elizabeth Medical Center—north unit  
 St. Elizabeth Medical Center—south unit  
 St. Elizabeth Medical Center—Grant County  
 St. Luke Hospital East  
 St. Luke Hospital West  
 The Jewish Hospital  
 Mercy Hospital Anderson  
 Mercy Clermont Hospital  
 Dearborn County Hospital  
 Margaret Mary Hospital

Additional affiliations are maintained with orthopedic offices to provide experience in this type of setting. Other opportunities are also available for elective rotations during the second year of the program. Although most courses are taught during the day, some are scheduled in late afternoon or evening during the second year of the program.

Graduates receive the degree of Associate of Applied Science in radiologic technology and are eligible to sit for the examination of the American Registry of Radiologic Technologists. Upon passing the examination, graduates may use the designation R.T.(R) and are also eligible to apply for an operator's license in the applicable state of employment.

The NKU Radiologic Technology Program is accredited by the Joint Review Committee on Education in Radiologic Technology (<http://www.jrcert.org>)

### Pre-Major and Selective Admission Requirements

Admission to the radiologic technology program is accomplished through a selective admissions process that includes an academic screening and hospital observation; verification of immunizations is required of accepted students. The Radiologic Technology Admissions Committee determines academic eligibility and ranks the applicants.

Twenty-eight students are accepted into each class. Names of other candidates meeting the admission criteria are placed on a waiting list and are accepted for the current year if vacancies occur prior to the start of the Introduction to Radiography course in July. Preference is given to students who have completed all admission requirements prior to 15 February.

### ACADEMIC SCREENING

Academic criteria have been established to ensure that students meet the minimum requirements needed to be successful in the program. Numerical values are assigned to the GPA, completion of requisite coursework, and hospital observation. Beginning in the summer of 2004, students will have to meet the following admission requirements prior to starting the program:

- a. Satisfactory completion of:
  - BIO 208 & 208L Human Anatomy & Physiology I
  - PHY 110 Introduction to Physics
  - ENG 101 College Writing
  - Math elective
- b. A minimum GPA in all college work attempted on a 4.00 basis, using the following sliding scale:
 

16-29 semester hours	2.50 GPA
30-45 semester hours	2.40 GPA

46 or more semester hours 2.30 GPA

- c. Successful completion of any developmental coursework by the end of the spring semester, prior to entering the program.
- Successful completion of other required general education courses will result in additional points that contribute to the ranking.

### Hospital Observation

All candidates making formal application to the program are required to observe in a radiology department for a minimum of four hours. Observations may be completed at one of the program's affiliate hospitals or, for those candidates from out of the area, at a hospital near their home. Candidates are responsible for completing an "Observation Worksheet" and submitting it as part of the application.

### Technical Standards

Candidates eligible for the Radiologic Technology Program must be able to meet the following technical standards. These standards specify the skills necessary for successful completion of the program and subsequent employment as a radiologic technologist (radiographer).\*

1. 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 radio graphs
  - \* evaluate radiographs for quality, and
  - \* read printed words in textbooks and on medical equipment
2. Sufficient hearing to communicate with patients and other members of the health care team, monitor patients via audio monitors, hear background sounds during equipment operations, and respond to the audible sounds of the equipment.
3. Sufficient gross and fine motor coordination to manipulate equipment and accessories, lift a minimum of 30 pounds, and to stoop, bend or promptly assist patients who become unstable.
4. 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, and stand in place for long periods of time.
5. Satisfactory verbal, reading, and writing skills to:
  - \* explain radiologic procedures and direct patients during those procedures and
  - \* Communicate in English for effective prompt interaction with patients, fellow students, faculty, and hospital personnel.
6. 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.
7. Must be physically free of illegal drugs and alcohol.

\* Students with disabilities should declare the disability and provide verification to the Office of Disability Services so reasonable accommodations can be made.

Admitted students must:

1. carry professional liability insurance (available through Northern Kentucky University and paid with tuition);
2. purchase appropriate professional uniforms;
3. provide own transportation to the hospital or clinic;
4. declare radiologic technology (RADA) as a major by the first day of the fall semester;
5. be immunized against hepatitis B and other communicable diseases;
6. provide documentation of immunizations and annual testing for tuberculosis;

## 7. maintain annual CPR certification.

Submission of immunization and TB records is required for continuation in the program.

**Transfer Students**

Applicants who have withdrawn from another collegiate program in radiologic technology must submit an official transcript from that institution, as well as other program documents (i.e., course descriptions and/or syllabi) as requested by the NKU radiologic technology program. Transfer students must make an appointment with a program adviser to discuss transfer placement and will be considered for admission to the NKU program on an individual basis.

**Advanced Standing**

Students who possess a high school diploma or a GED, have graduated from an accredited post-secondary vocational or hospital-based program in radiologic technology, and have passed the American Registry of Radiologic Technologists (ARRT) national exam will be awarded 37 semester hours toward completion of NKU professional course requirements in radiologic technology.

Students admitted into the associate degree program under the advanced standing policy will be held accountable for meeting all prevailing University and program requirements for graduation.

**Student Advising**

Each student majoring in radiologic technology is assigned to a faculty adviser who will assist in developing an appropriate course of study. The student is expected to maintain frequent contact with the faculty adviser to discuss progress, performance, and career goals.

Students who are currently enrolled at NKU and who plan to apply to the Radiologic Technology Program are urged to declare pre-radiologic technology (XRAD) as their major to insure that they are appropriately advised. Pre-RAD majors may consult with their academic adviser on all issues related to course scheduling, the selective advising holds, and must be advised prior to registering for classes.

**Associate of Applied Science in Radiologic Technology**

In addition to the 14 semester hours of coursework required for admission to the program, students must complete 68 semester hours of coursework for the major. The professional component includes 55 semester hours of coursework. Of that number, 14 semester hours are earned in clinical practica at the affiliate hospitals and 41 hours earned in didactic coursework at the University.

*First Professional Year*

Summer—Second Five-Week Session	
RAD 200 Introduction to Radiography	<u>6</u>
Total	6
Fall	
RAD 208 Radiographic Procedures	3
RAD 208L Radiographic Positioning Laboratory I	1
RAD 214 Analysis of Radiographic Quality	3
RAD 214L Analysis of Radiographic Quality Laboratory	1
RAD 286 Radiographic Practicum I	3
SPE 101 Principles of Speech Communication	<u>3</u>
Total	14
Spring	
RAD 205 Professional Communication	3
RAD 209 Radiographic Procedures II	3
RAD 209L Radiographic Positioning Laboratory II	1
RAD 216 Physical Principles of Radiographic Equipment	3
RAD 296 Radiographic Practicum II	3
Total	13

*Second Professional Year*

## Summer

RAD 376 Radiographic Practicum III	2
BIO 209 & 209L Human Anatomy & Physiology II	<u>4</u>
Total	6
Fall	
RAD 303 Radiographic Procedures III	3
RAD 340 Radiation Biology & Protection	3
RAD 386 Radiographic Practicum IV	3
Humanities Elective	3
Behavioral/Social Science Elective	<u>3</u>
Total	15
Spring	
RAD 334 Specialized Medical Imaging	3
RAD 350 Clinical Pathology for Radiographers	3
RAD 360 Quality Assurance	2
RAD 394 Radiography Seminar	1
RAD 396 Radiographic Practicum V	3
Total	<u>12</u>
Program Total	66

**RESPIRATORY CARE**

Respiratory care is the allied health profession devoted to the diagnosis, treatment, and rehabilitation of patients with diseases of the respiratory system. Respiratory therapists must have a thorough understanding of normal pulmonary anatomy and physiology and of the pathology and treatment of various breathing-related disorders. They work in adult and pediatric hospitals, in some nursing homes, and for a growing number of home-care companies. With the authorization of a physician, they give aerosolized medications and various special breathing treatments to patients with acute or chronic pulmonary disease. Respiratory therapists are life-support specialists, setting up artificial ventilators for patients of all ages who cannot breathe for themselves. When a cardiac arrest occurs in the hospital, therapists provide cardiopulmonary resuscitation and manual ventilation. With sophisticated equipment, they measure effectiveness of breathing and levels of oxygen and carbon dioxide in the blood. Following recognized protocols or physician's orders, they institute therapies to reduce the work of breathing and to improve ventilation and oxygenation.

The program at NKU is 5 semesters long, including summer sessions, with a curriculum of 74 semester hours. Besides didactic, lab, and clinical training in basic respiratory care, the first-year includes courses in chemistry and anatomy/physiology. The summer and the second year focus on more advanced or specialized modalities of respiratory care plus the general education courses necessary to develop an informed, broadly educated health care professional. To provide experience with patients, the program has clinical affiliations with hospitals in the northern Kentucky and greater Cincinnati area. Successful completion of the program leads to the degree of Associate of Applied Science and to eligibility for the C.R.T. and R.R.T. credentialing examinations given by the National Board for Respiratory Care. After passing the C.R.T. exam, the graduate is eligible for a Kentucky Mandatory Certificate or for licensure in another state.

**Pre-Major and Selective Admission Requirements**

The applicant must follow the standard procedures for admission to the University as outlined in the Admission section of this catalog. In addition, the applicant must do the following:

1. Submit a completed *Respiratory Care Program Application for Admission*;
2. Observe the work of a therapist employed in a hospital respiratory care department and submit a completed *Respiratory Care Observation Form*.

Admission to the program is gained via a selective admissions process that includes an evaluation of academic credentials. After an applicant has obtained unrestricted admission to Northern Kentucky University, he or she will be considered for acceptance into the first term of professional RSP courses under the following minimum criteria:

GPA: 2.3 or higher for previous college work  
 ACT: 19 or higher composite on Enhanced ACT  
 Courses: algebra, chemistry and biology in high school or college with grades of C or better  
 Math: enhanced ACT math subscore of 18 or higher, or Advanced level on NKU Math Placement Test, or MAH 099 Intermediate Algebra at NKU (or equivalent)

Students who want to major in respiratory care but do not yet meet the above criteria should declare Pre-Respiratory Care (X-RSP) as their major, apply for acceptance into the program, and follow the advice of their RC faculty adviser. Many students take pre-requisites, 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.

### Advanced Placement for Certification School Graduates

The Respiratory Care Program recognizes learning which can be validated by testing or academic records. Certification school graduates who are accepted into the Advanced Placement Program will be granted credit hours for previous academic work in respiratory care depending upon the applicant's academic and clinical background.

### Admission Requirements for Advanced Placement

To be considered for Advanced Placement, the applicant must:

1. have graduated from a certification program accredited by the Commission on Accreditation of Allied Health Education Programs upon recommendation by the Committee on Accreditation for Respiratory Care
2. have worked at least one year as a graduate respiratory care technician or have passed the NBRC Entry Level Examination. Exception may be made to this policy upon demonstration of outstanding academic and clinical ability and interest in the field of respiratory care as determined by the Respiratory Care faculty
3. be interviewed by the Respiratory Care Program Director
4. submit three references (two from respiratory care instructors, one from a respiratory care employer)
5. have a minimum grade point average of 2.7 for his/her work in the certification program, or have passed the NBRC Entry Level Examination
6. meet the requirements for admission to Northern Kentucky University.

Interested applicants should arrange a personal interview with the Respiratory Care Program Director and complete a checklist for advanced placement. The curriculum will be determined on an individual basis and will be based on previous academic and clinical work in respiratory care as well as anticipated career goals.

### Progression

A student must achieve a grade of at least C in each respiratory care course in order to continue in the program. Accurate knowledge of chemistry and human anatomy and physiology is essential to the effective application of respiratory therapy. For this reason, the required science courses must be taken before or during the semester in which they are listed in the program curriculum. Two grades of less than "C" in required science courses constitute reason for dismissal from the program. Science courses transferred from other institutions with a grade of less than "C" will not be recognized as fulfilling program requirements.

### Computer Literacy

Students will demonstrate computer literacy by completing the following activities as part of the program's computer competency requirement:

1. use word-processing software such as WordPerfect or Microsoft Word for research papers;
2. do medical literature database searches using MedLine and/or CINAHL;
3. complete computer-assisted instruction assignments;
4. complete computerized clinical simulations;
5. gather information for research papers from the internet;
6. send and receive electronic mail.

### Assessment of Major

In the fifth term, as part of RSP 280 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.

### Associate of Applied Science in Respiratory Care

#### 1st term

BIO 208 Human Anatomy and Physiology I	4
BIO 208L Human Anatomy and Physiology I Laboratory	0
CHE 115 Physiological Chemistry	3
CHE 115L Physiological Chemistry Laboratory	1
RSP 110 Fundamentals of Respiratory Care	4
RSP 110L Patient Assessment Laboratory	1
RSP 115 Clinical Practicum I	<u>2</u>
Total	15

#### 2nd term

BIO 209 Human Anatomy and Physiology II	4
BIO 209L Human Anatomy and Physiology II Laboratory	0
RSP 120 Ventilatory Support	4
RSP 120L Respiratory Laboratory II	1
RSP 125 Clinical Practicum II	2
RSP 130 Respiratory Physiology and Physics	3
One required general education course	<u>3</u>
Total	17

#### 3rd term

RSP 210 Artificial Ventilation	3
RSP 210L Respiratory Laboratory II	1
RSP 225 Clinical Practicum III	2
One required general education course	<u>3</u>
Total	9

#### 4th term

RSP 231 Cardiopulmonary Monitoring and Pharmacology	3
RSP 250 Chest Diseases	2
RSP 262 Prenatal-Pediatric Respiratory Care	3
RSP 267 Clinical Practicum IV	3
SPE 220 Interpersonal Communication	3
(or) SPE 230 Small Group Communication	
One required general education course	<u>3</u>
Total	17

#### 5th term

RSP 233 Pulmonary Function Testing	2
RSP 240 Pulmonary Rehabilitation	2
RSP 280 Respiratory Care Seminar	3
RSP 287 Clinical Practicum V	3
Two required general education courses	6
Total	<u>16</u>
Program Total	74



# Social Work and Human Services Department

## FACULTY

Willie L. Elliott, *interim chair*  
 Charles E. Lowe, *interim director, social work*  
 Nan E. Littleton, *director, mental health/human services*  
 Barbara A. Conklin, Gregory T. Hatchett, Darrell Payne, Holly Riffe,  
 Jacqueline Smith, Karen Tapp

## CONTACTING THE DEPARTMENT

The Department of Social Work and Human Services is located in Albright Health Center 206 and may be reached by phone during normal business hours at 859-572-5604. Visit the department's website at <http://www.nku.edu/~swhs>.

Willie E. Elliott, *interim chair*                      [elliott@nku.edu](mailto:elliott@nku.edu)

## PROGRAMS OFFERED

### Associate Degrees

Applied Science  
 Human Services

### Bachelor's Degrees

**Bachelor of Science**  
 Mental Health/Human Services

### Bachelor of Social Work

### Minors

Mental Health/Human Services  
 Social Justice

### Certificate

Social Justice

## GENERAL EDUCATION COURSE OFFERED

SWK 203 Social Welfare in Contemporary Society

## PRE-MAJOR AND SELECTIVE ADMISSION REQUIREMENTS

Students wishing to major in one of these programs must apply to and be accepted into the program in addition to meeting the general admission requirements of the University. Complete program admission requirements are included in the specific description of each program. Applications should be directed to the appropriate program director or to the NKU Office of Admissions.

## ADMISSION AND GOALS OF THE DEPARTMENT

The Department of Social Work and Human Services assumes a leadership role in the preparation of students for a variety of careers in the social work, mental health, and human services field. The programs of the department are committed to the comprehensive personal and academic preparation of knowledgeable and skillful helping professionals.

To achieve this goal, the department's programs actively combine classroom instruction with supervised field experiences. By being exposed to community settings as well as campus classrooms and laboratories, students have ongoing opportunities to test their theoretical knowledge in real-world situations and to bring on-the-job experiences back to the classroom for analysis and discussion.

Because of the department's professional orientation and the post-graduation licensing requirements faced by practitioners who wish to work in these fields, all three of the degree programs have selective admissions policies.

## ACCREDITATION

Council on Social Work Education  
 Council for Standards in Human Service Education

## SOCIAL WORK

The bachelor's degree program is designed to provide graduates with the fundamental knowledge, values, ethics, and practice skills necessary for their entry into a social work career as beginning generalist professional social work practitioners. The coursework and related field practicum prepare graduates for the many diverse challenges, opportunities, and responsibilities they will face in social work practice. The degree offers graduates extensive career mobility within a variety of social work settings and further serves as a foundation for higher degrees in the field.

The coursework provides a breadth and depth of knowledge in areas specific to social work including social work practice theory and skills, social work policy and services, human behavior and the social environment, and social work research. The program includes three semesters of field practicum that is an integral and vital component of the curriculum. Numerous community agencies serve as field practicum sites. In addition to the social work-focused courses, the professional curriculum is integrated with the core knowledge provided in the social/behavioral and biological sciences requirements.

The program does not give academic credit for life and work experience.

## Accreditation

The program is accredited by the Council on Social Work Education (CSWE). Graduates are awarded the degree of Bachelor of Social Work (BSW), providing them with the eligibility to test for both the entry-level state license and a national professional credential.

## Selective Admission Requirements

Students can apply for admission to the social work program after they have declared social work as a major and met the following admission criteria:

1. Attainment and maintenance of a cumulative grade-point average (GPA) of at least 2.00.
2. Completion of SWK 105 and SWK 203 with a minimum grade of C.
3. Completion of the program's required supportive courses with a minimum grade of C prior to commencing the junior social work curriculum.
4. Submission of an autobiographical critical life review and letter of recommendation.
5. Demonstration of an interest in, and aptitude for, a career in social work per evaluation of any and all pertinent and available student information.

## Additional Requirements

Requirements for a major in social work leading to the degree of Bachelor of Social Work are as follows:

1. Declaration of social work as a major field of study;
2. Gaining admission to the program. A cumulative grade-point average (GPA) of at least 2.00 is required. Students make formal application to the Social Work Program after completion of SWK 105 and SWK 203;
3. Completion of general education requirements;
4. Completion of courses in other disciplines designated by the social work program (see "Social Work Required Supportive Courses");
5. Achievement of specified goals and objectives within the professional curriculum.

## Bachelor of Social Work

*Required courses in social work*

SWK 105 Community Experience in the Social Services

SWK 203 Social Welfare in Contemporary Society	3
SWK 303 Professional Interactional Skills	3
SWK 304 The Human Experience I: Theoretical Perspectives	3
SWK 305 Social Work Practice: The Generalist Model	3
SWK 306 Field Instruction I	5
SWK 308 Social Work Research	3
SWK 404 Social Work Practice: Individuals, Families, Groups	3
SWK 405 Social Work Practice: Community Organization	3
SWK 406 Field Instruction II	5
SWK 407 Social Welfare Policy	3
SWK 408 Field Instruction III	5

#### *Social Work Required Supportive Courses*

Required supportive courses must be completed with a minimum grade of C.

BIO 121 Systems Biology <i>or</i> BIO 125 Biological Perspective of Wellness	3
ECO 215 Contemporary Economic Issues	3
MAT 205 Introduction to Statistical Methods	3
PHI 155 Introduction to Ethics <i>or</i> PHI 220 Health Care Ethics	3
PSC 100 American Politics	3
PSY 100 Introduction to Psychology	3
SOC 100 Introductory Sociology	3
SPE 101 Principles of Speech Communication	3

#### *Electives*

Six semester hours from the social work electives below:	6
SWK 307 The Human Experience II: Literary Perspectives (3)	
SWK 394 Topics in Social Welfare (1-3)	
SWK 411 Social Work and the Law (3)	
SWK 510 Child Abuse (3)	
SWK 520 Services to Women (3)	
SWK 525 Substance Use and Abuse (3)	
SWK 594 Issues in Social Welfare (1-3)	
Total	70-72

#### **Area of Concentration**

There is no minor in social work. Social work is available as an area of concentration for students who complete four of the 300 level or above courses listed below. The program welcomes students from other disciplines to either declare social work as a concentration or simply enroll in courses open to all students.

Courses open to all students include:

SWK 105 Community Experience in the Social Services
SWK 203 Social Welfare in Contemporary Society
SWK 307 The Human Experience II: Literary Perspectives
SWK 394 Topics in Social Welfare
SWK 411 Social Work and the Law
SWK 510 Child Abuse
SWK 520 Services to Women
SWK 525 Substance Use and Abuse
SWK 594 Issues in Social Welfare

Courses open to students with the consent of instructor include:

SWK 303 Professional Interactional Skills
SWK 304 The Human Experience I: Theoretical Perspective
SWK 308 Social Work Research
SWK 407 Social Welfare Policy

#### **Computer Literacy Requirement**

Social work students are required to use Windows, Internet, e-mail, electronic library research, and other computer applications throughout the entire social work curriculum.

#### **Additional Program Information**

The program handbook available from the social work office (HC 206) provides more detailed information regarding the curriculum, student advisement, admission procedures, student organizations, and other aspects of the program. Also available is a student field manual detailing

the field practicum component of the program. Field students are required to carry professional liability insurance, which is available through the University. The program also offers a two-year Public Child Welfare Certification Program (PCWCP) Scholarship which includes tuition and stipend benefits.

An active student social work organization provides support to students and involvement in community service projects.

Criteria for non-retention in the program include

1. academic performance below the acceptable level of an overall GPA of at least 2.00 and/or less than the grade of C in all social work required and supportive required courses.
2. behavior inappropriate or detrimental in a professional relationship.
3. violation of the National Association of Social Workers (NASW) Code of Ethics.



#### **HUMAN SERVICES**

The associate degree program in human services prepares graduates to work in a variety of human service settings including mental health, mental retardation, preschool day-care, therapeutic recreation, alcohol and drug abuse, geriatrics and gerontology, corrections, and other functional specializations.

#### **Pre-Major and Selective Admission Requirements**

Admission to the program is selective. To be considered for admission, applicants must

1. be admitted to Northern Kentucky University;
2. successfully complete HSR 100 Orientation to Mental Health/Human Services.

Students need faculty recommendation and consent of instructor before enrolling in any practica.

Persons entering the University with an interest in the human services program will be designated as HSR students for advising purposes.

Students planning careers in preschool day-care should consult with their academic advisers for assistance in meeting the requirements for appropriate state certification.

#### **Associate of Applied Science in Human Services 2+2**

The program—66 semester hours—may be completed in four semesters.

*Primary requirements (24 semester hours)*

HSR 100 Orientation to Mental Health/Human Services	3
HSR 102 Practicum in Human Services I	4
HSR 103 Practicum Seminar I	2

HSR 105 Counseling for Human Service Professions	3
HSR 110 Activities Therapy	3
HSR 207 Practicum in Human Services II	4
HSR 211 Practicum Seminar II	2
HSR 216 Group Theories and Practice	3

*Other requirements (42 semester hours)*

BIO 125 Biological Perspective of Wellness	3
ENG 101 College Writing	3
ENG 291 Advanced Writing	3
MAT 110 Introductory Probability or (any general education mathematics course)	3
PSY 100 Introduction to Psychology	3
PSY 333 Abnormal Psychology	3
SOC 100 Introductory Sociology	3
SPE 101 Principles of Speech Communication	3
Elective in human development from Lifespan Development (PSY 220), Child Psychology (PSY 319), Psychology of Adult Development (PSY 320), and Human Growth and Development (EDU 300)	3
Elective in human services	3
General education elective in humanities/fine arts	3
Electives	9

**Associate of Applied Science in Human Services 2+2****Early Childhood /Preschool Specialization**

The program - 64 semester hours - may be completed in four semesters. Primary requirements (24 semester hours) are the same as listed for the Associate of Applied Science in Human Services 2+2.

*Other requirements (40 semester hours)*

BIO 125 Biological Perspectives of Wellness	3
ENG 101 College Writing	3
ENG 291 Advanced Writing	3
MAT 110 Intro Probability or (any general education math course)	3
PSY 100 Introduction to Psychology	3
SOC 100 Introduction to Sociology	3
SPE 101 Principles of Speech Communication	3
EDU 300 Human Growth and Development	3
HSR 226 Behavior Problems of Children	3
EDU 301 Young Child in School	
EDU 305 Introduction to Education	2
EDS 360 Students with Exceptionalities	2
EDS 562 Early Childhood Special Education Programs	3
General Education elective in humanities/fine arts	3

**Bachelor of Science in Mental Health/Human Services 2+2**

The bachelor's degree program in mental health/human services is an extension of, and builds upon, the associate degree program in human services. Students have the option of specializing in mental health, preschool day-care, rehabilitation, substance abuse, or gerontology with elective courses tailored to each area. Students are prepared to perform middle-level mental health services in education/training, prevention, individual and group counseling, and program development and management. The 2+2 Bachelor's Program is exempt from the area of concentration requirement.

**Pre-Major and Selective Admission Requirements**

Admission to the bachelor's program in mental health/human services is selective. To be considered for admission, applicants must

1. be admitted to Northern Kentucky University;
2. possess a grade-point average (GPA) of 2.00 or higher on previous college work;
3. be recommended by a faculty member in mental health/human services;
4. receive faculty recommendation and consent of the instructor before enrolling in any practica.

**Additional Requirements**

Persons interested in the bachelor's program will be designated as HSRB students for advising purposes. Upon admission into the program, students must complete a *Change of Major* form in the Office of the Registrar.

The program consists of 62(63) semester hours.

*Primary requirements (20 semester hours)*

HSR 300 Contemporary Issues in Mental Health	3
HSR 304 Field Experience in Mental Health I	4
HSR 305 Assessment and Appraisal in Mental Health	3
HSR 404 Field Experience in Mental Health II	4
HSR 412 Leadership Skills in Group Counseling	3
HSR 416 Mental Health Counseling: Principles and Practice	3

*Other Requirements 42 (43) semester hours*

HSR 430 Human Services Administration	3
PAD 300 Introduction to Public Administration	3
PSY 300 Personality Theory	3
SWK 308 Social Work Research	3
General education	21-22
Electives	9

**Bachelor of Science in Mental Health/Human Services**

Students who are junior standing or above may elect to work on a bachelor's degree in mental health/human services without first completing the associate degree. Students have the option of specializing in mental health, preschool day-care, rehabilitation, substance abuse, or gerontology with elective courses tailored to each area. Students are prepared to perform middle-level mental health services in education/training, prevention, individual and group counseling, and program development and management.

**Pre-Major and Selective Admission Requirements**

Admission to the bachelor's program in mental health/human services is selective. To be considered for admission, applicants must

1. be admitted to Northern Kentucky University;
2. possess a grade-point average (GPA) of 2.00 or higher on previous college work;
3. be recommended by a faculty member in mental health/human services;
4. receive faculty recommendation and consent of the instructor before enrolling in any practica.

**Additional Requirements**

Persons interested in the bachelor's program will be designated as HSRB students for advising purposes. Upon admission into the program, students must complete a *Change of Major* form in the Office of the Registrar. General requirements detailed in Academic Requirements, General Requirements No. 1, must be fulfilled by those pursuing the Bachelor of Science in Mental Health/Human Services.

The program consists of 50 semester hours.

*Primary requirements (38 semester hours)*

HSR 100 Orientation to Mental Health/Human Services	3
HSR 105 Counseling for Human Service Professions	3
HSR 207 Practicum in Human Services II	4
HSR 211 Practicum Seminar IV	2
HSR 216 Group Theories and Practice	3
HSR 300 Contemporary Issues in Mental Health	3
HSR 304 Field Experience in Mental Health I	4
HSR 305 Assessment and Appraisal in Mental Health	3
HSR 404 Field Experience in Mental Health II	4
HSR 412 Leadership Skills for Small Groups	3
HSR 416 Mental Health Counseling: Principles and Practice	3
HSR 430 Human Service Administration	3

*Other Requirements 12 semester hours*

PAD 300 Introduction to Public Administration	3
PSY 300 Personality Theory	3
SWK 308 Social Work Research	3
MAT 205 Introduction to Statistical Methods	3

**Bachelor of Science in Mental Health/Human Services****Early Childhood/Preschool Specialization**

The program consists of 53 semester hours.

*Primary requirements (35 semester hours)*

HSR 100 Orientation to Mental Health/Human Services	3
HSR 105 Counseling for Human Service Professions	3
HSR 207 Practicum in Human Services II	4
HSR 211 Practicum Seminar IV	2
HSR 216 Group Theories and Practice	3
HSR 300 Contemporary Issues in Mental Health	3
HSR 304 Field Experience in Mental Health I	4
HSR 305 Assessment and Appraisal in Mental Health	3
HSR 404 Field Experience in Mental Health II	4
HSR 412 Leadership Skills for Small Groups	3
HSR 430 Human Service Administration	3

*Other Requirements 18 semester hours*

MGT 205 Introduction to Business & Management	3
ENG 386 Children's Literature	3
HSR 500 Multicultural Family Work	3
HSR 502 Guidance Strategies for EC Practitioners	3
EDU 550 Current Trends in Early Childhood Education	2
EDU 551 Classroom Activities in Early Childhood	1
EDU 566 Assessment in Early Childhood Education	3

**Computer Literacy Requirement**

HSR 211, HSR 412, and HSR 430 require use of Windows or MAC/OS, internet, e-mail, electronic library research, and word-processing skills.

**Minor in Mental Health/Human Services**

The minor in mental health/human services is appropriate for students majoring in the behavioral, social, or health sciences. The minor requires successful completion of Orientation to Mental Health/Human Services (HSR 100), and 18 additional semester hours of mental health/human services courses (6 semester hours of which must be numbered 300 or above). Students may choose as part of their mental health/human services course requirement a practicum course and accompanying seminar involving supervised on-the-job work experience in a service delivery agency. For more information on the practicum/seminar courses contact the director of mental health/human services.

**SOCIAL JUSTICE STUDIES**

Social Justice is an interdisciplinary area of study that focuses on issues of equity and fairness in the distribution of power, privilege, and resources in human societies. Issues in social justice can include any of the differences that have been used to divide members of society and distribute the basic elements of human existence on an unequal basis. Issues may include, but are not limited to, race, sex, class, ethnicity, gender, identity, ability, and age. Courses not only explore violations of social justice, but also examine reactions to these violations and seek out ways to resolve them. For complete information, see "SOCIAL JUSTICE STUDIES" on page 89 of this catalog.

## Technology Department

**FACULTY**

James R. Gray, *interim chair*

Simone W. Bess, Melissa Bledsoe, Ruth Champion, Paul D. Cooper, Kent Curtis, Majed Dabdoub, Thomas M. Edwards, Sean Foley, H. Randolph Holt, Dixie Leather, Mark Rajai, William A. Recker, Morteza Sadat-Hossieny, Gary D. Scott, Pryze Smith, Christine B. Stiegler, Willis Vincent, Harold Wiebe, Robert Willoughby, Lewis Ed. Workman

**CONTACTING THE DEPARTMENT**

The Department of Technology is located in AST 206 and may be reached during business hours by phone at 859-572-5440. Visit the department's website at <http://www.nku.edu/~technology>.

Dr. James R. Gray, *interim chair* [jgray@nku.edu](mailto:jgray@nku.edu)

**PROGRAMS OFFERED BY THE DEPARTMENT****Associate Degree Programs**

Construction Technology  
Aviation Administration

**Bachelor's Degree Programs**

Business Education (Teaching Track)  
Organizational Systems Technology (Non-Teaching Track)

Computer and Electronics Engineering Technology  
Construction Management  
Industrial Education  
Industrial and Labor Relations  
Mechanical and Manufacturing Engineering Technology  
Organizational Leadership

**Minors**

Electronics Technology  
Industrial and Labor Relations  
Industrial Technology  
Organizational Systems Technology

**Certificates**

Organizational Systems Technology  
Leadership Development  
Architectural Drafting

**ACCREDITATION**

Accreditation Board for Engineering & Technology, EET and MET Programs (ABET).

American Council for Construction Education, CMGT Program (ACCE)

National Council for Accreditation of Teacher Education, BED (NCATE)

## PRE-MAJORS AND SELECTIVE ADMISSION REQUIREMENTS

### Pre-Business Education

See College of Education admission requirements.

## MISSION STATEMENT FOR THE DEPARTMENT OF TECHNOLOGY

The mission of the Department of Technology is to serve our community through learning, discovery, and engagement in technology transfer, technology application and technology management, and to promote the adoption and diffusion of new technological innovations. Student learning is enhanced by discovery and engagement, which are essential to meeting the socioeconomic and workforce demands of the northern Kentucky metropolitan region.

## UNIVERSITY WIDE REQUIREMENTS

Students pursuing a degree must meet all university-wide requirements for that degree which include, but are not limited to the following:

- 1) a minimum of 128 semester hours for a bachelors; 64 semester hours for an associates
- 2) the last 30 semester hours for a bachelors must be taken at NKU; the last 20 semester hours for an associates must be taken at NKU
- 3) a minimum of 25% of semester hours for the degree must be from NKU
- 4) general education requirements must be fulfilled
- 5) GPA of 2.0 in the major, minor and/or area of concentration as well as a cumulative GPA of 2.0 must be attained on all college work attempted (excluding developmental work)
- 6) 45 hours of coursework for a bachelors must be 300-400 (upper division)

## BACHELOR'S DEGREE PROGRAMS

### Organizational Leadership

The Organizational Leadership program is a non-business degree that provides knowledge of organizational structures, human behavior, and techniques of effective leadership. The program focuses on four components: 1. Professional environment - human relations, social and organizational psychology; 2. Communications - communication techniques, international communications, and Internet concepts and techniques; 3. Leadership - leading in the quality environment and team dynamics; and 4. 12 Hour Area of Concentration - adviser approved theme of courses for each student's personal and professional development, e.g., Web Development.

The Organizational Leadership program is designed for students with professional career paths in supervision and leadership with an emphasis on human behavior and interpersonal relationships.

### Admission Requirements

- A. Applicants must meet NKU admission standards and hold an associate degree from an accredited college or university *or*
- B. Applicants without an accredited associate degree must:
  1. meet NKU admission standards;
  2. have a minimum of 60 semester hours from an accredited college or university;
  3. have a cumulative GPA of at least 2.00 for all previous courses;
  4. have at least 18 semester hours of NKU approved general education courses;

### Student Advising

All students contemplating admission to the program must contact the Department of Technology for an appointment with an adviser to discuss admission criteria and to obtain guidance in course selection.

### Evaluation of Transcripts

Official transcripts of previously earned credit must be sent to the Office of Admissions, Northern Kentucky University, Nunn Drive, Highland Heights, KY 41099. The student will be sent a copy indicating the total transfer hours accepted and course applicability to NKU's general education requirements.

### Graduation

Upon satisfactory completion of all program and University graduation requirements, including general education, program core, and an area of concentration, graduates are awarded the degree of Bachelor of Arts in Organizational Leadership.

### Program of Study

#### A. General Education/Electives

All students will be required to complete the General education requirements as outlined in this catalog. See "GENERAL EDUCATION REQUIREMENTS: BACHELOR'S DEGREE" on page 26.

#### *Recommended General Education Courses*

PSY 100 Introduction to Psychology  
 ECO 200 Principles of Macroeconomics  
 MAT 205 Introduction to Statistical Methods

#### B. Core: (33 semester hours)

Professional Environment Component - 9 hours	
IET 305 Human Relations in Business and Industry	3
PSY 340 Social Psychology	3
PSY 344 Industrial/Organizational Psychology	3
Communications Component - 12 hours	
ENG 340 Business Writing	3
SPE 303 Organizational Communications	3
OST 310 Intercultural Business Communications	3
OST 330 Internet: Concepts and Techniques for Work in Technology Related Fields	3
Leadership Component - 12 hours	
IET 308 Leadership in the Quality Environment	3
IET 315 Personnel Management	3
IET 395 Total Quality Teamwork	3
LDR 480 Organizational Leadership Capstone	3

#### C. Area of Concentration- Adviser Approved: (12 semester hours)

All students must earn an area of concentration (12 adviser-approved upper-division semester hours) in addition to the required core of 33 semester hours. Course selection can be tailored to each individual's educational objectives. Information on potential areas of concentration is available from an adviser. Students majoring in BOL may not declare a minor or area of concentration in a business discipline. Students may petition for a 12-hour concentration of upper level courses (300 and 400) designed to enhance their professional development. The 12-hour concentration will be adviser approved and in compliance with University practices and procedures.

### Business Education (BED)

The Department of Technology offers two options in business education: (1) Business/Marketing Education and (2) Organizational Systems Technology

### Business/Marketing Education

This bachelor's degree program prepares students to teach business subjects in high school and middle grades. It provides the courses and guidance to enable students to meet Kentucky Department of Education teaching certification requirements.

Students pursuing a business teacher education/secondary education program should review that portion of the NKU Catalog relating to educa-

tion. Upon deciding to pursue the program, students must schedule an appointment with the coordinator of certification and advisement in the College of Education.

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

*General Education Requirements (46-51 semester hours)*

Fulfilled by the required/distributive components set forth by the University and the College of Education.

*Technical Core (36 semester hours)*

OST 300 Organizational and End-User Systems Concepts	3
OST 310 Intercultural Business Communication	3
OST 311 Written Communication Systems	3
OST 317 Database Technologies	3
OST 325 Electronic Publishing/Presentations Technology	3
OST 326 End-User Technology Solutions	3
OST 330 The Internet: Concepts/Techniques for Work In Technology-Related Fields	3
IET 380 Organization & Management of Career & Tech Ed	3
IET 381 Instructional Systems Development & Implementation	3
OST 400 Teaching Business & Marketing Subjects	3
OST 421 Case Studies in Applied Technology Systems	3
OST 422 Designing & Managing Organizational Training	3

*Professional Core (18 semester hours)*

ACC 200 Principles of Accounting I—Financial	3
ACC 201 Principles of Accounting II—Managerial	3
BUS 230 Legal Environment	3
ECO 200 Principles of Macroeconomics (or ECO 201 Principles of Microeconomics)	3
MKT 230 Legal Environment	3
IET 310 Problem Solving in Technology	3

*Education Core (31 semester hours)*

EDU 300 Human Growth & Development	3
EDU 305 Introduction to Education	2
EDU 311 Secondary Practicum I	1
EDU 313 Computer Applications for Teachers	1
EDU 315 Educational Assessment	1
EDU 324 Fundamentals of Secondary Education	3
EDU 322 Exceptional Students in Regular Secondary Classrooms	3
EDU 393 Secondary Practicum II	2
EDU 496 Student Teaching - Secondary	12
PHE 200 Concepts of Lifetime Fitness	2
PHE 100 One hour activity course	1
Total Program Hours	131-136

To complete the BED, students will have to take 134 semester hours—48-49 general education, 30 OST core, 18 business core—including 3 hours for ECO 200 or ECO 201 which also counts in general education, 31 education core, and 6 electives.

**Organizational Systems Technology**

The Organizational Systems Technology program offers two tracks: (1) Organizational Systems Technology and (2) Organizational Training and Development. The first, Organizational Systems Technology, prepares professionals to effectively manage today’s organizational systems. Organizational Systems are the business functions related to coordination and management of information resources of an organization. Generally, organizational systems functions include responsibilities for planning, selecting, designing, implementing, training for, and evaluating technical and non-technical organizational systems.

This program includes an OST core, general education, a professional core, co-op/practicum/internship, and electives. The electives enable students to pick up areas of concentration in a discipline outside the OST option. The curriculum emphasizes both the technical and human sides of an organization as contrasted with existing computer science curricula. Graduates will be prepared to plan for and design user-compatible systems and manage the change effort necessary for the introduction of new technologies.



*General Education (46-51 semester hours)*

Fulfilled by the required and distributive components set forth by the University.

*Systems Core (39 semester hours)*

OST 300 Organizational and End-User Systems Concepts	3
OST 310 Intercultural Business Communication	3
OST 311 Written Communication Systems	3
OST 317 Data Base Technologies	3
OST 320 Communications Technologies	3
OST 323 Systems Planning and Implementation	3
OST 324 Operating Systems Technologies	3
OST 325 Electronic Publishing/Presentation Technologies	3
OST 326 End-User Technology Solutions	3
OST 330 The Internet: Concepts and Techniques for Work and Technology	3
OST 394 Topics: Applied Technology Systems	3
OST 399 Independent Study: Applied Technology Systems	3
OST 421 Cases Studies in Applied Technology Systems	3

*Professional Core (33 semester hours)*

ACC 200 Principles of Accounting I—Financial	3
IET 310 Problem Solving in Technology	3
ENG 347 Technical Writing/PREREQ: ENG 291 or equivalent	3
IET 301 Cooperative Education in Technology	3
IET 305 Human Relations in Business and Industry	3
IET 308 Leadership in the Quality	3
IET 315 Personnel Management	3
BUS 230 Legal Environment	3
PSY 320 Psychology of Adult Development	3
PSY 340 Social Psychology or PSY 344 Industrial /Organizational Psychology	3
SPE 220 Interpersonal Communications	3

*Approved Upper Division Electives (12 semester hours)*

OST 422 Training and Organizational Development	3
PSY 344 Industrial/Organizational Psychology	3
IET 395 Total Quality Teamwork	3
LDR 480 ORganizational Leadership Capstone	3
MKT 305 Principles of Marketing	3
MKT 308 Advertising and Promotion	3
MKT 320 Consumer Behavior	3
MGT 305 Operations Management in Business	3
PSY 304 Consumer Psychology	3

**Organizational Training and Development**

The Organizational Training and Development program prepares professionals to effectively develop and implement training programs in today's new technologies. This interdisciplinary program focuses on a variety of core competencies for professional training including curriculum development, instructional design, training program delivery, and the psychology of adult development.

This program includes a training core, general education, a professional core, co-op/practicum/internship, and electives. The electives enable students to pick up areas of concentration in a discipline outside the OST option. Graduates will be prepared to plan for and design user-compatible systems and manage the change effort necessary for the introduction of new technologies.

*General Education (46-51 semester hours)*

Fulfilled by the required and distributive components set forth by the University.

*Systems Core (39 semester hours)*

OST 300 Organizational and End-User Systems Concepts	3
OST 310 Intercultural Business Communication	3
OST 311 Written Communication Systems	3
OST 317 Data Base Technologies	3
OST 320 Communications Technologies	3
OST 323 Systems Planning and Implementation	3
OST 325 Electronic Publishing/Presentation Technologies	3
OST 326 End-User Technology Solutions	3
OST 330 The Internet: Concepts and Techniques for Work and Technology	3
IET 340 Web Development: Basic Concepts & Practices	3
OST 394 Applied Technology Systems	3

OST 421 Cases Studies in Applied Technology Systems	3
OST 422 Designing and Managing Organizational Training	3

*Professional Core (33 semester hours)*

ACC 200 Principles of Accounting I—Financial	3
IET 310 Problem Solving in Technology	3
ENG 347 Technical Writing/PREREQ: ENG 291 or equivalent	3
IET 380 Organization & Management of Industrial Education	3
IET 181 Instructional Systems Development	
IET 305 Human Relations in Business and Industry	3
IET 308 Leadership in the Quality	3
BUS 230 Legal Environment	3
PSY 320 Psychology of Adult Development	3
SPE 220 Interpersonal Communications	3
PSY 340 Social Psychology	3

*Approved Upper Division Electives (12 semester hours)*

OST 324 Operating Systems Technology	3
OST 399 Independent Study: Applied Technology Systems	3
IET 315 Personal Management	3
IET 395 Total Quality Teamwork	3
LDR 480 ORganizational Leadership Capstone	3
MKT 305 Principles of Marketing	3
MKT 308 Advertising and Promotion	3
MKT 320 Consumer Behavior	3
MGT 305 Operations Management in Business	3
PSY 304 Consumer Psychology	3

**Computer and Electronics Engineering Technology (CEET)**

This bachelor's degree program is designed to prepare graduates for both technological and managerial responsibilities in industry. In addition to the electrical and electronics offerings, the program is structured to give a broad knowledge in areas that electronic engineering technologists are likely to encounter in their job responsibilities. The majority of the courses include both theoretical and laboratory ("hands-on") elements so that the graduates can more efficiently apply skills to real-world problems.

The previous, but related, EET program is accredited by the Technology Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; phone 410-347-7700.

Recognizing the importance of computer programming skills for many EET graduates, the program is organized to permit selection of either of two areas of emphasis. For those students desiring additional computer programming skills, the Computer Science Emphasis is chosen. The Technical Science Emphasis provides students with skills that are very important in many other industries.

Graduates of the CEET program will be prepared to provide direct technical assistance to scientists and engineers in scientific research, experimentation, and design. Skills gained and enhanced in this program will permit graduates to analyze, troubleshoot, and design industrial and laboratory systems that have electronic, mechanical, thermal, and fluidic components.

*Support Requirements (29 semester hours)*

CHE 120 General Chemistry	3
CHE 120L General Chemistry Lab	1
CSC 260 Introduction to Computer Programming	3
CSC 260L Introduction to Computer Programming Lab	1
MAT 119 Pre-calculus Mathematics	3
MAT 121 Calculus IA	3
MAT 122 Calculus IB	3
MAT 221 Calculus IIA	3
PHY 211 General Physics with Laboratory I	5
PHY 213 General Physics with Laboratory II	5

*Core Requirements (12 semester hours)*

IET 301 Cooperative Education in Technology	3
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IET 310 Problem Solving in Technology	3
IET 317 Research in Technology	3
IET 417 Senior Design in Technology	3
<i>Electronics (33 semester hours)</i>	
IET 144 D.C. Circuit Analysis	3
IET 145 A.C. Circuit Analysis	3
IET 244 Electronic Circuits	3
IET 314 Industrial Electronics	3
IET 344 Analog Electronics	3
IET 345 Digital Electronics	3
IET 348 Electronic CAD	3
IET 367 Microprocessors	3
IET 404 Signals and Systems	3
IET 447 Advanced Communications Electronics	3
IET 467 Advanced Microprocessors	3

Students must select ONE of the following areas of emphasis.

*Technical Science Emphasis*

ATS 261 Engineering Materials	3
ATS 300 Statics and Strength of Materials	3
ATS 340 Applied Dynamics	3
ATS 361 Fluid Power	3
ATS 450 Thermodynamics and Heat Transfer	3

*Computer Science Emphasis*

CSC 160 Elementary Programming in Visual BASIC	3
CSC 262 Computer Programming II	3
CSC 362 Computer Organization and Assembly Language Programming	3
IET 448 Network Hardware	3
CSC 462 Computer Architecture	3

Total Semester Hours in Technical Program 90

All University requirements, including general education, must be met for graduation.

**Industrial Education (IED)**

The industrial education program is designed for three general groups of students: (1) in-service vocational-industrial teachers, (2) individuals preparing for careers in corporate industrial/technical training, personnel development, or special industrial re-training programs, and (3) those seeking general technology careers in business and industry. This program is not intended for individuals seeking provisional teacher certification in vocational-industrial education or technology education.

Students majoring in this program are required to demonstrate computer proficiency prior to graduation.

**General Education (10 semester hours)**

MAT 118 Technical Mathematics (or MAT 119 Pre-Calculus Mathematics or MAT 205 Elementary Statistics)	3
PHY 110 Introduction to Physics with lab	4
PSY 100 Introduction to Psychology	3

*Core Requirements (48 semester hours)*

IET 116 Introduction to Industrial Materials and Processes	3
IET 161 Industrial Electricity Electronics	3
IET 211 Quality Control	3
IET 213 Occupational and Industrial Health and Safety	3
IET 305 Human Relations in Business and Industry	3
IET 310 Problem Solving in Technology	3
IET 265 Manufacturing Processes I	3
IET 315 Personnel Management	3
IET 410 Seminar in Technology	3
IET 415 Construction Management	3
Approved upper-division electives	15

*Professional Component (30 semester hours)*

IET 180 Foundations of Industrial Education	3
IET 181 Instructional Systems Development	3
IET 280 Instructional Methods of Industrial Education	3
IET 281 Evaluation in Industrial Education	3
IET 380 Organization and Management of Industrial Education (or IET 423 Planning and Design of Industrial Facilities)	3
IET 382 Exceptional Students in Vocational Programs	3
IET 487 Seminar in Teaching Industrial Education	4
IET 488 Problems in Industrial Education	3
EDU 300 Human Growth and Development: Adolescence (or PSY 300 Psychology of Personality)	3
Upper-division elective	2

*Area of Concentration (12 semester hours)*

12 semester hours of adviser approved upper-division courses in a related field.

**Industrial and Labor Relations (ILR)**

Professional training for both management and labor can contribute to harmonious relations fostering industrial peace, productivity, and job satisfaction. The field of Industrial and Labor Relations (ILR) provides opportunities for business and industrial managers, governmental officials, and union leaders.

The program is designed as an applied, practical one in industrial and labor relations. While a theoretical background is provided, the emphasis is placed upon applying ILR to the work setting and developing an appreciation of the actual labor-management process.

Students majoring in ILR must complete lower-division related requirements, general education requirements, a 27-semester-hour core, and an additional 15 semester hours from one of two tracks, consistent with interests and career plans.

*Related Requirements (9 semester hours)*

IET 117 Introduction to Supervision	3
IET 310 Problem Solving in Technology	3
SPE 210 Argumentation and Debate (or SPE 220 Interpersonal Communication)	3

*Core (27 semester hours)*

LAS 300 Introduction to Labor Relations	3
LAS 301 Labor-Management Negotiations	3
LAS 302 Contract Administration and Dispute Settlement	3
LAS 303 Labor Law	3
LAS 304 Wage and Benefits	3
LAS 320 Problems in Labor Law	3
LAS 490 Seminar in Labor Relations	3
IET 315 Personnel Management	3
BAD 305 Behavior in Organizations: Understanding Organizational Life	3

*Areas of Specialization (15 semester hours each)*

Choose one of the following two areas of specialization.

- Industrial Relations*—for managers, supervisors, personnel officers, employee relations specialists, and training directors in the private business and industrial sectors. The program is for those who wish to develop competencies in labor/management relations in union and non-union situations.

OST 111 Word Processing Technologies	3
OST 214 Spreadsheet Technologies	3
IET 211 Quality Control	3
IET 305 Human Relations in Business and Industry	3
IET 301 Cooperative Education in Technology	3
IET 311 Productivity Management	3
IET 308 Leadership in a Quality Environment	3
IET 395 Total Quality Teamwork	3



OST 317 Database Technologies	3
OST 422 Designing and Managing Organizational Training	3
PSY 302 The Human Side of Work	3
PSY 344 Industrial/Organizational Psychology	3

2. *Public Sector Labor Relations*—for employees of federal, state, county, or city governments who, as managers, supervisors, trainers, or human resource officials, are involved in contract administration and/or contract negotiations. Given the growth of public sector unions in all levels of government, this specialization is designed to meet a rapidly growing need.

PAD 300 Introduction to Public Administration (required)	3
PAD 401 Public Personnel (required)	3
PAD 412 Law for Administrators	3
IET 301 Cooperative Education in Technology	3
IET 308 Leadership in a Quality Environment	3
IET 395 Total Quality Teamwork	3
OST 111 Word Processing Technology	3
OST 214 Spreadsheet Technologies	3
OST 317 Database Technologies	3
IET 305 Human Relations in Business and Industry	3
PSY 302 The Human Side of Work	3
PSC 304 Introduction to Law	3
PSY 344 Industrial/Organizational Psychology	3

*Area of Concentration (12 semester hours)*

12 semester hours of adviser approved upper-division courses in a related field.

**Construction Management (CMGT)**

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

Students must fulfill all requirements for the 129-semester-hour degree program including general education, core requirements, technical support, and one of the following: the business and management component or the Entrepreneurial Minor offered by the College of Business.

*Core Requirements (43 semester hours)*

IET 120 Construction Materials	3
IET 121 Construction Processes	3
IET 122 Architectural Drafting and Design	3
IET 220 Plane Surveying	3
IET 221 Construction Specifications and Project Management	3
IET 222 Architectural CAD	3
IET 230 Electrical and Mechanical Systems Design and Drafting	3
IET 320 Construction Estimating & Project Management	4
IET 322 Structural Drafting and Design	3
IET 323 Land Planning and Development	3
IET 324 Construction Project Coordination	3
IET 325 Construction Safety	3
IET 428 Commercial Architecture	3

*Technical Support (15 semester hours)*

IET 301 Cooperative Education in Technology	3-9
IET 316 Materials Processing and Fabrication	3
IET 410 Seminar in Technology	3
IET 420 Advanced Plane Surveying	3
IET 424 Construction Restoration and Renovation	3
IET 425 Computer Applications in Construction	3
IET 426 Heavy Construction Techniques and Analysis	3
IET 427 Construction Law and Legal Contracts	3

*Support Requirements (14 semester hours)*

GLY 110 The Face of the Earth with lab	4
PHY 110 Introduction to Physics with lab	4
MAT 119 Pre-Calculus Mathematics	3
IFS 105 Introduction to Business Computing	3

*Choose one of the following required mathematics courses*

MAT 111 Introductory Linear Math	3
MAT 112 Calculus for Business Applications	3
MAT 121 Calculus 1A	3
MAT 205 Introduction to Statistical Methods	3

*Choose one of the following:*

*Entrepreneurial Minor (21 semester hours)*

Entrepreneurial Minor - see College of Business section *or*

*Business and Management (15 semester hours)*

IET 305 Human Relations in Business and Industry	3
IET 315 Personnel Management	3
IET 415 Construction Management	3
LAS 300 Introduction to Labor Relations	3
LAS 302 Contract Administration and Dispute Settlement	3
ACC 205 Introduction to Financial and Managerial Accounting	3
MGT 205 Introduction to Business and Management	3
MKT 305 Principles of Marketing	3

Total Program Hours

126-132

**Mechanical and Manufacturing Engineering Technology (MMET)**

This bachelor's degree program is designed to provide students with the knowledge and skills needed to succeed in today's industrialized society. Modern industrial societies are centered on the successful production, distribution, and utilization of mechanized devices and techniques. Robust design methods are pivotal in the manufacturability, performance and economic feasibility of these devices. Together with study of the basic engineering principles, design is the corner stone of the Mechanical and Manufacturing Engineering Technology program. Students choosing Mechanical Engineering Technology as their emphasis will focus on the relationship between design and performance of parts and products. Students selecting Manufacturing Engineering Technology will focus on different manufacturing methods and practices vital in the production of high-quality devices.

The previous but related MET program is accredited by the Technology Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; phone 410-347-7700.

Mechanical and manufacturing engineering technology graduates will be prepared to create efficient solutions to problems in design, material applications, processes analysis, computer applications, quality assurance, quality control, product testing and analysis, automated fabrication and assembling, and the management of production.

*Support Requirements (\*will also fulfill General Education)*

CHE 120 General Chemistry I*	3
MAT 119 Pre-calculus Mathematics*	3
MAT 121 Calculus IA	3
MAT 205 Introduction to Statistical Methods	3
PHY 211 General Physics with Laboratory *	5
PHY 213 General Physics with Laboratory II	5
CSC 260 Computer Programming I or	
CSC 160 Elementary Programming in Visual Basic	3

*MMET Core Requirements*

IET 116 Intro to Industrial Materials and Processes	3
IET 161 Industrial Electricity & Electronics	3
IET 211 Quality Control	3

IET 212 Computer Aided Drafting and Design	3
IET 265 Manufacturing Processes I	3
IET 300 Robotic Systems	3
IET 301 Cooperative Education in Technology	3
IET 310 Problem Solving in Technology	3
IET 317 Research in Technology	3
IET 417 Senior Design in Technology	3
ATS 261 Engineering Materials	3
ATS 300 Statics and Strength of Materials	3
ATS 340 Applied Dynamics	3
ATS 361 Fluid Power	3
ATS 450 Thermodynamics and Heat Transfer	3

IET 222 Architectural CAD	3
IET 230 Electrical and Mechanical Systems Design and Drafting	3
IET 301 Cooperative Education in Technology	3
IET 320 Construction Estimating and Project Managements	4
IET 322 Structural Design and Drafting	3
Technical elective	6

**Select one of the following areas: Mechanical Engineering Technology Emphasis or Manufacturing Engineering Technology Emphasis.**

*Mechanical Engineering Technology Emphasis*

MAT 122 Calculus IB	3
IET 261 Heat Power	3
IET 362 Tool Layout and Design	3
IET 386 Electro-Mechanical Instrumentation & Control	3
IET 405 Metrology and Geometric Tolerancing	3
IET 412 Advanced CADD	3
IET 423 Planning and Design of Industrial Facilities	3
IET 462 Applied Finite Element Modeling	3

*Manufacturing Engineering Technology Emphasis*

MAT 111 Introductory Linear Mathematics	3
IET 305 Human Relations in Business & Industry	3
IET 311 Productivity Management and Cost Analysis	3
IET 321 Scheduling and Planning	3
IET 341 Integrated Resource Planning	3
IET 365 Manufacturing Processes II	3
IET 423 Planning and Design of Industrial Facilities	3
IET 465 Automated Manufacturing Systems	3

\*Students taking IET 311, IET 321, and IET 341 are eligible to take APICX certificate exam.

\*\*Students interested in obtaining an ASQ (American Society for Quality) certificate can take the following two courses as well.

- IET 308 Leadership in the Quality Environment
- IET 411 Quality Assurance and Auditing

All University requirements including general education must be met for graduation.

## ASSOCIATE DEGREE PROGRAMS

### Construction Technology (CST)

Due to the growth and expansion of the modern construction industry, employment opportunities are numerous and varied. Graduates of the program will have acquired the abilities to plan, develop, and supervise construction of commercial buildings, residences, and other structures. Construction technicians provide services to engineers, architects, developers, construction materials designers, manufacturers, and distributors.

*Support Component (7 semester hours)*

GLY 110 The Face of the Earth with Lab or PHY 110 with Lab	4
MAT 118 Technical Mathematics (or MAT 119 Pre-Calculus Mathematics)	3

*Specialization Component (46 semester hours)*

IET 310 Problem Solving in Technology	3
IET 119 Fundamentals of Construction	3
IET 120 Construction Materials	3
IET 121 Construction Processes	3
IET 122 Architectural Design and Drafting	3
IET 305 Human Relations in Business and Industry	3
IET 220 Plane Surveying	3
IET 221 Construction Specifications and Project Management	3

### AVIATION ADMINISTRATION (AVA)

Associate degree graduates in aviation administration are prepared to occupy positions such as technicians, first-level supervisors, fixed-base operators, and other entry-level positions for airlines, major airports, government aviation agencies, and travel bureaus.

AVA 100 Introduction to Aviation	3
AVA 120 Principles of Passenger and Air Cargo Management	3
AVA 180 Theory of Flight	3
AVA 200 Seminar in Aviation Problems	3
AVA 210 Aviation Laws and Regulations	3
AVA 220 Aviation Marketing	3
AVA 240 Airport Operations	3
AVA 296 Aviation Internship (or IET 301 Cooperative Education in Technology)	3
ECO 200 Principles of Macroeconomics	3
ENG 101 College Writing	3
ENG 291 Advanced Writing	3
ENG 347 Technical Writing	3
IET 110 Introduction to Technology	3
IET 117 Introduction to Supervision	3
IET 305 Human Relations in Business and Industry	3
IET 315 Personnel Management	3
MGT 205 Intro to Business and Management	3
MAT 111 Introductory Linear Mathematics	3

Students going on to four-year programs are strongly urged to take ECO 201 Principles of Microeconomics.

### MINORS

Transfer credit will not be accepted for the upper-division coursework in any minor in the Department of Technology.

### Electronics Technology (21 semester hours)

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, or other programs that may directly or indirectly interact with electrical or electronic skills.

IET 144 D.C. Circuit Analysis	3
IET 145 A.C. Circuit Analysis	3
IET 244 Electronic Circuits	3
IET 345 Digital Electronics	3
Speciality courses - select 3 of the following:	
IET 314 Industrial Electronics	
IET 344 Analog Electronics	
IET 348 Electronic CAD	
IET 367 Microprocessors	
IET 447 Advanced Communication Electronics (IET 344 prereq.)	
IET 448 Network Hardware	
IET 467 Advanced Microprocessors (IET 367 is prereq.)	

### Industrial and Labor Relations (18 semester hours)

The minor in industrial and labor relations provides students with an understanding of organized labor.

LAS 300 Introduction to Labor Relations	3
LAS 301 Labor-Management Negotiations	3
LAS 302 Contract Administration and Dispute Settlement	3
LAS 303 Labor Law	3
LAS 304 Wage and Benefits	3
LAS 320 Problems in Labor Law	3

**Industrial Technology (21 semester hours)**

The minor in industrial technology is designed to provide an opportunity to broaden the understanding of the technological nature of the work places in society. The objectives of the program are to

1. enable the learner to relate the elements of industry to the production of goods and provision of services;
2. provide a program experience that will explore the technical and social/cultural aspects of industrial technology;
3. promote the development of creative abilities in solving problems typical of contemporary industries;
4. provide a synthesizing experience for the learner to relate his/her chosen field to an industrial setting.

IET 310 Problem Solving in Technology	3
IET 112 Technical Graphics	3
IET 116 Introduction to Industrial Materials and Processes (or IET 120 Construction Materials)	3
IET 316 Materials Processing and Fabrication	3
IET 317 Research in Technology	3
IET approved electives (must be upper-division courses)	6

**Organizational Systems Technology (21 semester hours)**

The minor in organizational systems technology consists of 21 semester hours—12 required, and 9 in one of four options (training, technical, communication, administrative).

*Core Courses Required (12 semester hours)*

OST 111 Word Processing Technologies	3
OST 214 Spreadsheet Technology	3
OST 300 Organizational and End-User Systems Concepts	3
OST 311 Written Communication Systems	3

One of the following options (9 semester hours):

*Training Option*

OST 325 Electronic Publishing/Presentation Technologies	3
OST 330 The Internet: Concepts/Techniques for Work in Technology Related Fields	3
OST 422 Designing and Managing Organizational Training	3

*Technical Option*

OST 317 Data Base Technologies	3
OST 320 Communication Technologies	3
OST 330 The Internet: Concepts/Techniques for Work in Technology Related Fields	3

*Communication Option*

OST 310 Intercultural Business Communications	3
OST 325 Electronic Publishing/Presentation Technologies	3
OST 330 The Internet: Concepts & Techniques for Work in Technology-Related Fields	3

*Administrative Option*

OST 323 Systems Planning and Implementation	3
OST 324 Operating Systems Technologies	3
OST 422 Designing and Managing Organizational Training	3

**CERTIFICATES****Certificate in Organizational Systems (15 semester hours)**

This program is designed to provide basic elements of office systems technology by pursuing existing regularly scheduled courses. It offers an opportunity for office personnel to gain additional skills and knowledge necessary to successfully fulfill their respective roles in the ever-changing organizational environment.

The organizational systems certificate will be awarded upon successful completion of three courses, as follows:

OST 111 Word Processing Technologies	3
OST 214 Spreadsheet Technologies	3

OST 311 Written Communications Systems	3
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Two of the following:

OST 317 Database Technologies	3
OST 324 Operating Systems Technologies	3
OST 325 Electronic Publishing/Presentation Technologies	3
OST 330 Internet: Concepts & Techniques for Work in Technology-Related Fields	3

**Certificate in Leadership Development (non-degree)**

This program is designed to provide basic elements of supervision by utilizing existing courses. Its purpose is to provide an opportunity for organizational personnel selected for or aspiring to a supervisory role to gain essential skills and knowledge for that role.

The certificate will be awarded upon successful completion of 15 semester hours as follows:

IET 117 Introduction to Supervision	3
IET 305 Human Relations in Business and Industry	3
IET 308 Leadership in the Quality Environment	3
IET 395 Total Quality Teamwork	3
IET 315 Personnel Management	3

**Certificate in Architectural Drafting**

This program is designed to prepare students for entry-level positions as drafters in the architectural and construction industries. This certificate program offers the opportunity for students to gain skills on the board and CAD, while developing a basic understanding of construction materials and processes. All courses in this certificate program may be transferred into the Construction Technology (CST) Associate Degree Program. This certificate program requires 21 semester hours.

IET 119 Fundamentals of Construction	3
IET 120 Construction Materials	3
IET 121 Construction Processes	3
IET 122 Architectural Drafting and Design	3
IET 222 Architectural CAD (Auto CAD)	3
IET 413 Drafting in a Specialized Field	3
IET 301 Cooperative Education	3



# PRE-PROFESSIONAL PROGRAMS

Students who desire to apply to professional schools of dentistry, medicine, pharmacy, veterinary medicine, engineering, forestry, optometry, wildlife management, or law should consult with the appropriate pre-professional adviser. Normally a student in a pre-professional program who wishes to receive a degree from NKU must fulfill the requirements listed in this catalog under "Requirements for degrees." However, under certain circumstances, the first year of work at a professional school may be applied toward the degree at NKU (see, elsewhere in this catalog, "Transfer of credit from post-bachelor's institutions to NKU bachelor's programs").

The following are the usual minimum requirements for admission to the respective professional schools ("1 semester" refers to at least 3 semester hours of credit; "1 year," to at least 6 semester hours).

## Pre-Dentistry and Pre-Medicine

Most students complete an undergraduate program before attending dental or medical school. Exceptional students may gain entrance after three undergraduate years. Students fulfilling the basic requirements below may be accepted with almost any major. Usually, pre-dental or pre-medical students major in sciences such as biology, chemistry, or physics or in mathematics. For further details and suggested curricula, see under "Biological Sciences" or "Chemistry" in this catalog.

- 1 year English composition
- 1 year biology with laboratory
- 1 year physics with laboratory
- 1 year general chemistry with laboratory
- 1 year organic chemistry with laboratory

In their junior year, students must register with Northern's Pre-Medical Review Board to indicate intended application to medical or dental school. Information on the Board may be obtained from students' advisers.

## Pre-Pharmacy

Pre-pharmacy students will normally enter pharmacy school after two years of undergraduate work. If such students remain at NKU they may readily complete a major in biology or in chemistry in their third and fourth years. For further details and suggested curricula, see under "Biological Sciences" or "Chemistry" in this catalog.

- 1 year English composition
- 1 year biology with laboratory
- 1 year mathematics (calculus and statistics)
- 1 semester microbiology with laboratory
- 1 semester principles of economics
- 1 year physics with laboratory
- 1 year general chemistry with laboratory
- 1 year organic chemistry with laboratory

## 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, Auburn, Alabama, and Tuskegee Institute, Tuskegee, Alabama. These students are exempt from out-of-state tuition. Students generally need to have a grade-point average (GPA) of at least 3.20 to be competitive for admission.

Most students require at least three years to complete the courses required for admission to veterinary schools. For further details and suggested curricula, see under "Biological Sciences" or "Chemistry" in this catalog.

- 1 year English composition
- 1 year biology with laboratory
- 1 semester mathematics (calculus)
- 2 years chemistry including general chemistry and organic chemistry with laboratory

## Pre-Engineering

Northern Kentucky University, 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. These agreements allow the same predictable transfer to UL as to UK but for a degree program that leads to Master of science level degree in any of chemical, civil, electrical, industrial, or mechanical engineering as well as a hybrid degree in engineering mathematics and computer science.

Pre-engineering students may elect to follow a three/two agreement that leads to the award of a degree in physics from NKU and the award of a degree in a field of engineering from the program and institution of choice. Alternatively, a student may elect to study at NKU for two years of course work then transfer to another institution to complete only requirements for the BS in a field of engineering in two years.

Most Pre-engineering students will be expected to complete at least this group of courses at NKU before transfer to a degree program in engineering:

- 1 year of English Composition
- 1 year of university physics with laboratory
- 2 years of calculus and differential equations
- 1 year of chemistry

Courses in computer graphics, general education, and introduction to engineering and design.

See under "Physics and Geology"

## Pre-Forestry

See under "Biological Sciences."

## Pre-Optometry

See under "Biological Sciences."

## Pre-Physical Therapy

See under "Biological Sciences."

## Pre-Physician Assistant

See under "Biological Sciences."

## Pre-Wildlife Management

See under "Biological Sciences."

## Pre-Law

No particular course of study is a prerequisite for admission to law school. The main guide to undergraduate studies should be the student's own interests and talents. Students considering law school may wish to consider the legal studies minor or the pre-law area of concentration offered by the Department of Political Science. Among the primary admissions factors considered by law schools are the GPA and the score on the law school admission test (LSAT). All pre-law students, regardless of major, are advised to consult with the University's pre-law adviser.



# UNIVERSITY PROGRAMS

Paul Reichardt, *vice provost*

## MISSION STATEMENT

University Programs consists of comprehensive and university-wide programs and services that foster an environment within which:

- Students maximize their learning potential;
- Faculty continue to grow as teachers, advisors, and scholars;
- Staff members are encouraged to develop professionally in order to promote student achievement and program effectiveness.

While University Programs actively cultivates each of the Core Values of Northern Kentucky University as described in the strategic planning documents *Defining Our Future* (1998) and, more recently, in *Strengthening Our Capacity to Serve* (2003), our hallmark values are:

- Learner-centered education;
- Access with opportunity to succeed;
- Innovation and creativity;
- Collegiality and collaboration.

These hallmark values guide us in:

- Assisting students in developing fundamental abilities and knowledge;
- Encouraging faculty to explore new pedagogies and develop innovative courses;

- Recognizing and rewarding staff contributions to the learning and service environment;
- Developing and sustaining programs to enhance student access, persistence, and retention;
- Providing opportunities to broaden understanding of cultures and peoples;
- Leading evaluation and assessment of educational effectiveness and quality throughout the University.

## CONTACTING THE OFFICE

The Office of the Vice Provost, located in the Lucas Administrative Center (AC 834), may be reached during business hours by phone at 859-572-5379. Interested persons are invited to browse the office's website at <http://www.nku.edu/~viceprovost>.

Dr. Paul Reichardt, <i>vice provost</i>	<a href="mailto:reichardt@nku.edu">reichardt@nku.edu</a>
Ms. Shirley Scharf, <i>administrative assistant</i>	<a href="mailto:scharf@nku.edu">scharf@nku.edu</a>
Ms. Nancy Burgin, <i>secretary</i>	<a href="mailto:burginn@nku.edu">burginn@nku.edu</a>

The Office of the Vice Provost administers the following programs and offices.

- Academic Advising Resource Center
- Covington Campus
- Curriculum, Accreditation & Assessment
- Development Mathematics
- Faculty Development
- First-Year Programs
- Honors Program
- International Programs/CCSA
- Learning Assistance Program
- Women's Studies

## Honors Program

Tom Zaniello, *Director*

The NKU Honors Program provides qualified students with a 21-hour minor, which includes 15 semester hours of seminars, each having a maximum enrollment of 15 students, plus 6 semester hours for completing the Honors Thesis. At the core of the Honors experience, the seminars emphasize discussion and discovery of ideas. NKU's Honors Program is university-wide. The program showcases open-ended seminars not conforming to the boundaries traditionally dividing fields of expertise. Honors learning affords the intellectual challenges of interdisciplinary education.

### Qualifying for Honors

NKU's Honors Program is open to first-time freshmen, already enrolled students, and transfer students. To qualify for admission, students should demonstrate curiosity about a wide range of subjects, show that they can take the initiative for their own learning, and prove that they are academically well prepared. Outstanding academic credentials, such as an ACT composite score of 26 or above, or SAT combined scored of 1180, success in advanced-placement courses, or comparable evidence of achievement such as a major scholarship, help to ensure admission. Students interested in the program should complete an application form (available from Northern Kentucky University, NKU Honors Program, Honors

House, Nunn Drive, Highland Heights, KY 41099; phone 859-572-5400), or on the NKU website. Following a review of the application by the program director, applicants receive notification of their standing. February 1 is the deadline for application, but students may apply after that date as space allows. Students in good standing in Honors maintain a minimal GPA of 3.25.

### Honors Seminars

The Honors seminars (each worth 3 semester hours) are uniquely adapted to Honors participants' interests, talents, and creativity. The seminar sequence begins with Introduction to Honors (HNR 101). Next, students take any four of the following nine seminars: Humanity and Nature (HNR 301), Humanity and Society (HNR 302), Humanity and the Imagination (HNR 303), Humanity and the Machine (HNR 304), Studies in Diversity (HNR 306), Studies in Film (HNR 307), The World in Transition (HNR 308), World Cities/World Cultures (HNR 309), and Special Topics (HNR 394). Students may substitute up to one disciplinary honors course (such as ENG 151) for HNR courses. Faculty members who are devoted to excellence in teaching and proven meritorious in their respective fields teach in NKU's Honors Program. Finally, students complete an Honors Thesis/Project (HNR 491 or independent study in a student's major), which gives them the chance to read and discuss topics of lasting significance, conduct independent research, and present oral reports of their conclusions. The Thesis/Project has proven to be of value in successful applications for graduate or professional study beyond the undergraduate degree.

### Co-curricular Activities

Honors participants may take advantage of a broad range of co-curricular activities. Locally, they may elect to become members of the Honors Student Association, which sponsors group experience in the arts, engaging in dialogue with guests invited to speak especially with the club, film nights and coffee house events, and community service. Becoming an officer in the club helps to build leadership capabilities.

NKU is a full member of the National Collegiate Honors Council (NCHC), at whose annual meetings Honors students present papers of original research or study. Other international study opportunities are open to Honors students, who are eligible for Honors travel fellowships.

## International Programs

Michael Klembara, *Director*

The Office of International Programs in BEP 301 coordinates education abroad programs at NKU. Through membership in several consortia and its own exchange agreements with foreign universities, NKU provides its students with a variety of opportunities for education throughout the world. Academic credit can be earned for courses taken through these programs; students should consult with their advisors to ensure that courses taken abroad will count toward their general studies and/or major requirements.

Students may participate in a wide range of courses and programs in English-speaking regions available through NKU's membership in the Cooperative Center for Study Abroad (CCSA). CCSA develops and coordinates short-term programs in Australia, New Zealand and South Africa and London in the interim between semesters in late December and early January; summer programs in Barbados, Belize, England, Ireland, Jamaica, Kenya, Scotland, Singapore, and South Africa; and a fall semester in England. Internships are also available in London, England; Dublin, Ireland; and Sydney, Australia.

### Recognition and Privileges

NKU takes great pride in its Honors students and rewards them accordingly. Recognition and international scholarships are available. Students who successfully complete the Honors curriculum are designated "University Honors Scholars," a term that appears on their diplomas and transcripts. The Honors coursework may be claimed as a minor, but the effect of Honors learning is major in broadening the students' educational background.

Study in Europe, Asia, Latin America, South America, and Africa is available through the Kentucky Institute for International Studies (KIIS). KIIS sponsors summer programs in Athens/Rome, Austria, Brazil, Cameroon, China, Costa Rica, Denmark, Ecuador, France, Germany, Italy, Japan, Mexico, Spain, Thailand/Myanmar, and Turkey. Fall semester programs are available in Morelia, Mexico; Regensburg, Germany; and Segovia, Spain. A spring semester program is available in Segovia, Spain.

Students and faculty exchanges are offered with the following institutions: Aarhus School of Business in Aarhus, Denmark; Gifu University in Gifu, Japan; Ludwig Maximilians University in Munich, Germany; University of León in León, Spain; the Peoples' Friendship University of Russia in Moscow, Russia; Glasgow Caledonian University in Glasgow, Scotland; and the Universidad Autonómica del Estado de Morelos in Cuernavaca, Mexico. The office also provides information on numerous international scholarships including the Fulbright, Rhodes, National Security Education Program (NSEP), British Marshall Scholarship, and the Robert B. Bailey III Minority Student Scholarships. In addition, both CCSA and KIIS offer individual scholarships.

Information about opportunities abroad is available from the Office of International Programs in BEP 301, 859-572-6908 and at [www.nku.edu/~oip](http://www.nku.edu/~oip); and from CCSA in BEP 301, 859-572-6512 and at [www.ccsa.cc](http://www.ccsa.cc).

## Women's Studies

The minor in women's studies offers undergraduate students the opportunity to earn a minor through an integrated series of courses reflecting the new scholarship on women, the study of women, their contributions to society, and their changing roles. This series of courses has as its objectives the following:

1. To study the contributions in each discipline made by women in society.
2. To promote research regarding women's past, present, and future contributions to society.
3. To analyze the changing roles of men and women in society.
4. To study possible social changes and reactions to the changing roles of women and men.
5. To study special problems faced by women in the labor force, under the law, and in social situations.
6. To gain a cross-cultural perspective on women and to learn about new role possibilities for women.
7. To study normative values relevant to a women's movement.

The Women's Studies Minor requires a total of 21 semester hours.

Two of the following three courses are required:

- WMS 150 Introduction to Women's Studies
- WMS 494 Seminar in Women's Studies
- WMS 499 Independent Study

WMS 494 or WMS 499 shall serve as a capstone course. In addition to the two chosen above, five additional courses of those listed below must be taken, for a total of 21 semester hours. (One of these may be the third of those listed above.) To complete an area of concentration in Women's Studies, students must take at least 12 semester hours of the coursework designated below at the 300-level or above. Minors need to file a declaration of minor in the Registrar's office. Students doing an area of concentration also need to declare it in the Registrar's office in order to apply any of the upper-division courses listed below to the area of concentration in Women's Studies, and not just those with a "WMS" prefix.

The following courses may be applied to the women's studies minor:

- ANT 230 North American Indians
- ANT 312 Social Organization
- ANT 330 Women, Gender and Culture: A global Perspective
- ART 349 Women and Art
- EDU 316 Racism and Sexism in Educational Institutions
- ENG 201 Ideas in Literature: Images of Women in Literature
- ENG 201 Ideas in Literature: Women and Beauty
- ENG 201 Ideas in Literature: Women and Work

ENG 201 Ideas in Literature: Women and the Family  
 ENG 201 Ideas in Literature: Women and Power  
 ENG 201 Ideas in Literature: Mothers and Daughters  
 ENG 211 Survey of Women's Literature I  
 ENG 212 Survey of Women's Literature II  
 ENG 300 American Women Poets  
 ENG 305 American Women Writers  
 ENG 354 Southern Women Writers  
 ENG 355 Women's Autobiographical Writing  
 ENG 370 Focus on United States Civilization  
 GEO 594 Seminar: The Geography of Women  
 HIS 444 History of Women in the United States to 1900  
 HIS 445 History of Women in the United States since 1900  
 HIS 546 History of the American Family  
 JOU 335 Women in Mass Media  
 MUS 253 Women in music in Europe and America I: 1800-1900  
 MUS 254 Women in Music in Europe and America II: The 20<sup>th</sup>  
 Century  
 NRP 275 Race, Gender, and Health Issues  
 PHI 170 Philosophy and Sexuality  
 PHI 311 Philosophy of Women  
 PSY 205 Psychology of Human Sexuality  
 PSY 308 Psychology of Gender  
 SOC 110 Introduction to Race and Gender  
 SOC 250 Women in Society  
 SOC 315 Marriage and the Family

SOC 350 Women and Crime  
 SPE 350 Rhetoric of Minority Groups  
 SPE 394 Topics: Women in Communication  
 SWK 307 The Human Experience II: Literary Perspectives  
 SWK 394 Topics: Social Welfare-Services to Gay and Lesbian  
 Clients  
 SWK 520 Services to Women  
 WMS 150 Introduction to Women's Studies  
 WMS 310 Women, Wages, and Work  
 WMS 381 Women and Literature  
 WMS 382 Women and Society  
 WMS 383 Women and World Cultures  
 WMS 384 Women, Nature and the Inner Self  
 WMS 385 Women and Human Care  
 WMS 386 Women and the Law  
 WMS 387 Women and the Arts  
 WMS 394 Topics: Women's Studies  
 WMS 494 Seminar: Women's Studies  
 WMS 499 Independent Study  
 WMS 594 Topics: Women's Studies

NOTE: Other courses may apply toward the minor or an area of concentration in women's studies at the discretion of the director of women's studies.

## Academic Advising Resource Center

David Emery, *director*

The Academic Advising Resource Center (AARC) provides academic advising services for some undeclared and all University Studies students at NKU. AARC advisers assist these students to make well informed, timely decisions about selecting appropriate courses and programs of study.

### Undeclared Students

Many entering students elect to be Undeclared rather than select a major. Some undeclared students may feel that they need some time to explore possible areas of interest, make appropriate choices about majors, and schedule courses preparing them for these programs. Other undeclared students want advice about which programs might be best suited to their academic strengths and weaknesses, personal interests, and career objectives. AARC advises only undeclared students whose academic interests cannot be narrowed to a specific college. Undeclared students who have focused their major choice(s) within a specific college can be advised in either the College of Arts and Sciences, College of Business, College of Professional Studies, or College of Education.

### University Studies Students

NKU has developed a special program for entering students who have not yet fulfilled the University's pre-college curriculum requirements. Students who have academic needs as defined by their admission status are classified as University Studies students and are advised by AARC. AARC advisers assist these students with timely completion of pre-college curriculum requirements and discuss with them avenues for academic success.

### Advising Services

All undeclared and University Studies students must meet formally with an academic adviser in AARC each semester before registering for classes. During advising appointments, AARC advisers provide individualized academic advising that is sensitive to students' individual needs. Specifically, AARC advisers assist students in the following ways:

1. Discuss students' academic progress.
2. Provide current curricular information on pre-college curriculum, general education, and major or minor course requirements.
3. Clarify University policies and procedures.
4. Help students learn effective decision-making skills for choosing majors.
5. Offer proactive academic counseling for students experiencing academic difficulties.
6. Assist in course selection and scheduling.
7. Make referrals to appropriate university faculty, staff, and services.

Academic advising is a process of shared responsibility between the student and the adviser that assists students in achieving their maximum educational potentials. Quality academic advising depends on active student participation in the process. To realize the most from their advising, students should come to advising sessions prepared with information and questions for their advisers.

The Academic Advising Resource Center, Old Science Building 405A, 859-572-6900, is open from 8:15 a.m. to 4:30 p.m. Monday through Friday with additional hours till 6:15 p.m. Monday and Thursday fall and spring semester. Visit AARC's web page at [www.nku.edu/~aarc](http://www.nku.edu/~aarc).



## Developmental Mathematics Program

Diane Williams, *director*

### FACULTY

Janalynn Anderson, Janis Broering, Jerry Call, Patricia Connelly, Barbara Hamilton, Gretchen Kaucher, Elizabeth McMillan-McCartney, Dempsey Smith

The Developmental Mathematics Program (DMP) offers courses designed to assist students who did not complete the pre-college high school curriculum (two years of algebra, one year of geometry) or who need further work to master the mathematical skills essential for success in college-level courses. Placement into courses in the program is by ACT score, SAT score, COMPASS score, high school record, and/or placement testing. See page 11 for more specific placement criteria. For further information about DMP, call 859-572-6473 or come to AST 305E, where the program is housed with the Department of Mathematics and Computer Science.

## Learning Assistance Program and Center

Paul Ellis, *director*

### FACULTY

Wanda Crawford, Patricia Fairbanks, Beth Irwin, Karen Jenkins Smith, Judith Taylor

The Learning Assistance Program provides **FREE** convenient and quality academic support to all NKU students who request assistance. Students may make appointments in person or on-line (registration required) via <http://tutortrac.nku.edu>. Students should visit BEP 230 or call 859-572-5475 for more information. The Center is open from 8:15 a.m. to 6:00 p.m. Monday through Thursday and from 8:15 a.m. to 3:00 p.m. on Fridays.

### ACADEMIC SUPPORT (TUTORING) PROGRAMS

Academic Tutoring provides **FREE** assistance and support for students who want or need to comprehend more fully or better understand the course content and materials of specific 100, 200, and some higher-level courses. Visit BEP 230 or call 859-572-5475 to learn how to make an appointment.

The Math Center provides **FREE** assistance and support for students taking math courses. After scheduling an appointment, students should bring with them a question, problem or assignment - plus any other relevant materials. Visit AST 343 or call 859-572-5779 to learn how to schedule an appointment.

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. Visit BEP 230 or call 859-572-5475 to learn how to schedule an appointment.

Supplemental Instruction (SI) provides **FREE** group review sessions for specific sections of a few difficult and challenging courses. SI Lead-

### DEVELOPMENTAL MATHEMATICS COURSES

Mathematics Assistance (MAH 080)

This is a workshop course, paired with selected developmental courses, that provides additional instruction on topics from the paired course.

Basic Mathematical Skills (MAH 090)

This is a pre-algebra course covering basic math skills and skills necessary for success in algebra.

Beginning Algebra (MAH 095)

This is an elementary algebra course that assumes students have pre-algebra skills, but have not mastered basic algebra concepts.

Elementary Geometry (MAH 097)

This is an introductory course covering basic geometric concepts, with emphasis on developing inductive and deductive reasoning skills. This course is recommended for those students who want to be elementary or middle school educators and need to strengthen their geometry background.

Intermediate Algebra (MAH 099)

This is a second algebra course providing students with the opportunity to develop the competencies to be successful in a college-level mathematics course.

ers, students who took the class before and earned an *A* grade, attend all classes and conduct weekly review sessions.

Structured Learning Assistance (SLA) provides **FREE** review workshops for students enrolled in specific sections of courses with historically high failure and withdrawal rates. Students should consider an SLA course section if they anticipate difficulty in a particular subject or if the subject is unfamiliar to them. All students who enroll in an SLA course section are required to attend all SLA workshops until the first examination and thereafter only if their grade in the class falls below a *C* average; students are required to attend all SLA workshops until their grade improves to a *C* average or higher. All students, however, are encouraged to attend often.

### Becoming an Learning Assistance Program Tutor or Consultant

Sophomore, junior, and senior students with superior academic achievement are invited to apply to the Learning Assistance Program (LAP) to become paid Academic tutors, Math Center tutors, or Writing Center consultants. LAP student employees may work up to 10 hours per week.

### Learning Assistance Program Courses

*Writing Workshop (ENG 090)*

Writing Workshop offers practice and instruction in writing for students needing additional preparation for ENG 101. The course focuses on the activities writers do and the decisions writers make: selecting topics, purposes, and forms; determining when and how to revise; and establishing when a piece of writing can be considered "finished."

*Learning Assistance (LAP 090)*

Learning Assistance, a 1-semester-hour pass/fail course, offers additional instruction for selected developmental level (under 100) courses.

*Reading Workshop (LAP 091)*

Reading Workshop offers students practice and instruction in reading and reading appreciation. The course guides students in literate behavior: book selection, reading strategies, and responding creatively and critically to readings.

### Critical Reading (LAP 110)

Critical Reading is designed to sharpen students' critical reading and thinking abilities. It is especially recommended for students desiring additional instruction for the considerable reading demands of college-level courses.

### Bookscapes (LAP 210)

Introduction to the world of contemporary tradebooks (books sold in regular bookstores, books that are NOT school textbooks). Students read these books and learn how to engage in in-depth discussions about them in an egalitarian, book-discussion-club atmosphere.

## The Office of First-Year Programs

Vicki Stieha, *director*

Peg Adams, *assistant director*

### Specialists

Suzanne DeLuca, Freshman Specialist History

Jodi Ferner, Freshman Specialist Literature & Language & Honors

Darrin McMillen, Freshman Specialist Literature & Language

Fran Zaniello, Freshman Specialist, FYP

### Learning Communities Program

A Learning Community is a small group of NKU students who take two or three popular courses together. By taking the same classes, these students meet new people, make new friends, form study groups, participate in class discussions, and get to know faculty. Research has shown that the more connections students make to the university, the better they do in school and the more they enjoy their college experience.

### Course Placement

In a learning community, the same group of about 25 students will be automatically placed in two or three classes together. Usually one of these classes will consist entirely of the Learning Community and, in most cases, one will be a large, lecture-based class.

### Scheduling

Learning Community classes meet on the same day of the week. Enrolling in a Learning Community guarantees students a spot in all of the learning community classes.

### Eligibility

All freshmen are eligible for Learning Communities, regardless of admission status.

### Courses

Learning Communities feature a wide range of the classes freshmen take most often. Please see the current *Schedule of Classes* for more information.

For more information about Learning Communities, contact the Office of First-Year Programs, BP 206 or call 859-572-5913.

### UNV 101 (An Orientation to College and Beyond)

This course is designed to help students make a successful transition to university life. It will provide insight into the importance of learning processes that occur outside the classroom and an overview of resources available to help ensure student success in the classroom. UNV 101 provides students with essential information about University policies, rules, procedures, and resources. UNV 101 classes include work on time management, college study skills, basic computer skills, choosing a major and career, and using the NKU library. Most classes require that students attend several University activities and events. Classes introduce students to the University offices and discuss topics like safer dating, multiculturalism, and drug and alcohol abuse. Students are required to attend class and to interact with their instructor and classmates. Throughout the course, students will be strongly encouraged to take responsibility for their own success in the learning process. Students will learn skills essen-

tial both to a positive transition to college and to future transitions in their lives.

### Course Characteristics

UNV 101 is a 3-semester-hour course generally limited to freshmen or transfer students. It does not fulfill general studies requirements but counts as an elective that may be applied toward graduation. Based on student performance, the grade of *A*, *B*, *C*, *D*, or *F* will be awarded upon completion of the course. The grade in UNV 101 is computed in a student's grade point average.

### Instructors

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.

### Special Sections of UNV 101

Students may choose from different types of UNV 101 sections: (1) "regular" sections open to all new students; or (2) special sections that, in additions to the standard UNV 101 curriculum, are designed to meet the needs of particular student populations such as African-American, undeclared/undecided, non-traditional, international, and students living in the residence halls. About 20 sections of UNV 101 are part of Learning Communities (see below).

### Learning Community/UNV 101 Sections

Some UNV 101 sections will be included in Learning Communities. Learning Community UNV 101 courses help new students build stronger connections with each other and with the campus and provide opportunities for students in these special UNV 101 classes to form study groups and to attend campus activities together.

### Course Objectives:

1. To encourage students to take responsibility for their own learning both in and out of the classroom.
2. To teach "survival skills"—academic, personal, and social—that are essential to success in college and beyond.
3. To introduce students to the procedures and resources of the University and to help them become proficient in using them.
4. To provide students with a supportive community that will assist them in their transition to college.
5. To help students develop their written, oral, and non-verbal communication skills—skills essential to college success and life after college.
6. To introduce students to computer tools such as e-mail, the NKU Homepage, and electronic library sources.
7. To help students find a process for selecting a major and exploring career options.
8. To encourage student involvement in extra-curricular events and cultural activities.
9. To foster an understanding of and sensitivity to differences such as race, culture, religion, sexual orientation, and physical ability as reflected in our University community.
10. To introduce students to the mission, traditions, and history of Northern Kentucky University.

# NKU EXTENDED PROGRAMS

Opportunities for an NKU college education are extended through off-campus learning sites, distance learning, and special programs that help individuals (25 years of age and older) make informed decisions about pursuing a college career. Special programs include workshops, pre-admissions advising sessions, and participation in learning clusters.

For more information contact: Educational Outreach,  
Old Science Building, OS 305A  
Telephone: 859-571-5601  
E-mail: [edoutreach@nku.edu](mailto:edoutreach@nku.edu)  
Web: <http://edoutreach.nku.edu>

## OFF-CAMPUS LEARNING SITES

### Grant County Center (KY):

NKU and the Grant County Foundation for Higher Education support a learning center in Williamstown, Kentucky. At the Grant County Center, students may earn an Associate Degree in Liberal Studies or take the first two years of general education courses. A bachelor's degree may be completed by taking courses online or at the Highland Heights Campus. For a schedule of courses offered at the Grant County Center, visit <http://edoutreach.nku.edu> or see the online *Schedule of Classes*: [http://webapps.nku.edu/class\\_sched/default.asp](http://webapps.nku.edu/class_sched/default.asp) - for Select Campus, choose: Grant County Classes.

### Employer Sites:

NKU collaborates with area employers to bring courses, and in some cases complete degree and certificate programs, to the work site. Through this program, working adults are able to start or continue a college degree program at a convenient location.

### Colleges and Schools:

NKU classes are also offered at other colleges and universities and in area high schools.

### Urban Learning Center (Covington, KY):

NKU partners with the Urban Learning Center, which provides post-secondary opportunities for economically disadvantaged inner-city residents, by offering entry level courses and assistance in making the transition to college.

## CREDIT CONTINUING EDUCATION

Old Science Building, 305A  
Tel: 859-572-5601  
E-mail: [cce@nku.edu](mailto:cce@nku.edu)  
Web: [http://www.nku.edu/~cont\\_ed](http://www.nku.edu/~cont_ed)

The Office of Credit Continuing Education expands access to an NKU education in two distinct ways. First, it coordinates NKU course offerings at off-campus locations. Second, it coordinates and expands the use of distance learning technologies for course delivery. Through Extended Programs an increasing number of adult students are able to pursue a higher education.

The following extended learning sites offer students educational opportunities without coming to the NKU campus. For more information on the programs and sites, their locations, and current course offerings, see the Credit Continuing Education website at [http://www.nku.edu/~cont\\_ed](http://www.nku.edu/~cont_ed).

## DISTANCE LEARNING:

NKU offers courses, as well as degree and certificate programs, using various technologies, including the Internet, television, and video-conferencing.

## Web-Based Programs:

The credits required for the following undergraduate programs can be earned online. These programs do not require any visits to the NKU campus:

<u>Undergraduate Degree Completion Programs</u>	<u>Undergraduate Minor</u>
Bachelor of Arts in Organizational Leadership	Entrepreneurship
Bachelor of Science in Nursing	

Please see the Distance Learning web site for current information about online programs: <http://DL.NKU.EDU>.

## Web-Based Courses:

NKU courses identified as "Web-Based" are offered via the Internet and may require some face-to-face-on-campus sessions (less than 20%). For a schedule of web-based courses, visit <http://DL.NKU.EDU> or see the online *Schedule of Classes*: [http://webapps.nku.edu/class\\_sched/default.asp](http://webapps.nku.edu/class_sched/default.asp) — for Select Campus, choose Web-Based Course.

## Web-Enhanced Courses:

Courses identified as "Web-Enhanced" have a web component but must meet on campus more than 20% of the time. For a schedule of web-enhanced courses, visit <http://DL.NKU.EDU> or see the online *Schedule of Classes*: [http://webapps.nku.edu/class\\_sched/default.asp](http://webapps.nku.edu/class_sched/default.asp) — for Select Campus, choose: Web-Enhanced Course.

## Kentucky Education Television (KET) Telecourses

Telecourses are weekly programs broadcast over the local KET channel (WCVN, CH 54) and over the NKU cable channel (Channel 18), on the Insight Communications cable network. Students watch televised lectures and then complete assignments using a text and study guide. Telecourses require 3-5 on-campus face-to-face sessions, primarily to administer exams. Tapes of the telecourse materials are available for viewing at the NKU Steely Library Media Collections (SL215) after the initial broadcast. Before enrolling in a telecourse, verify KET reception from your home. For more information on telecourses, see: <http://www.ket.org/telecourses/>. For a schedule of telecourses, visit <http://DL.NKU.EDU> or see the online *Schedule of Classes*: [http://webapps.nku.edu/class\\_sched/default.asp](http://webapps.nku.edu/class_sched/default.asp) — for Select Campus, choose: Telecourse.

## Kentucky Telelinking Network (KTLN) Courses:

The Kentucky Telelinking Network (KTLN) is a network of interactive video conference studies located in colleges, universities, and K-12 schools throughout the state. Through camera and monitors, students in KTLN classes interact in real-time with each other and with the instructor. For more information about KTLN, see: <http://www.ket.org/ktltn/>. For a schedule of KTLN courses, visit <http://DL.NKU.EDU> or see the online *Schedule of Classes*: [http://webapps.nku.edu/class\\_schedule/default.asp](http://webapps.nku.edu/class_schedule/default.asp) - for Select Campus, choose KTLN.

## Kentucky Virtual University (KYVU)

KYVU is the web portal through which students may access online college credit courses offered by universities across Kentucky. Check with your academic advisor for transferability of non-NKU courses taken through KYVU. For more information about taking non-NKU courses through KYVU, see: <http://www.kyvuu.org>.

# COURSE DESCRIPTIONS

NOTE: Northern Kentucky University has established abbreviations for its various disciplines. These abbreviations, which are printed below the name of each discipline in the following course descriptions, should be used in preparing course schedules and at other times when referring to specific courses. Following course titles are three figures in parentheses. The first of these indicates the number of lecture hours in the course; the second, the number of laboratory hours; and the third, the number of semester hours of credit.

The University reserves the right to withdraw or modify courses of instruction at any time.

## Accounting

### ACC

**ACC 101 Introduction to Accounting** (3,0,3) Recording, classifying, and posting transactions; preparing journals, ledgers, and financial statements; accounting for payrolls and various balance sheet accounts. Can be substituted for ACC 200 only by students who are completing the associate degree program. Not open to students pursuing a bachelor's degree in a business discipline.

**ACC 150 Overview of Accounting** (3,0,3) Introduction to financial information generated by typical business organizations, with special emphasis on the use and interpretation of this information in managerial and financial decision-making processes by entrepreneurs. Enrollment priority given to ENTP minors. May not be substituted for ACC 200. Not open to students with credit for ACC 200 or ACC 201. Same as ENTP 150.

**ACC 200 Principles of Accounting I—Financial** (3,0,3) Preparation of primary financial statements: income statement, balance sheet, and statement of funds. PREREQ: sophomore standing or consent of chair; completion of one college level mathematics course; completion of computer competence requirement as determined by student's major, or completion of IFS 105.

**ACC 201 Principles of Accounting II—Managerial** (3,0,3) Accounting concepts for internal use of management in planning and control of operations. PREREQ: ACC 200.

**ACC 202 Accounting Laboratory** (0,2,1) Computerized lab focusing on technical accounting skills. PREREQ: sophomore standing and completion of a college-level mathematics course.

**ACC 300 Intermediate Accounting I** (3,0,3) Financial accounting theory and practice in determination of income and valuation of assets and equities for external reporting; official pronouncements on generally accepted accounting principles; alternatives to these principles; accounting cycle, financial assets (cash, marketable securities, and receivables), inventories, and prepayments. Assessment test is given. PREREQ: ACC 200, ACC 201, and ACC 202 with grades of C or better, junior standing, and declared major in any bachelor's program.

**ACC 301 Intermediate Accounting II** (3,0,3) 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. PREREQ: junior standing; declared major in any bachelor's program; ACC 300 with a C or better; MAT112.

**ACC 310 Accounting Information Systems** (3,0,3) 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. PREREQ: ACC 200, ACC 201, ACC 202 with a C or better; IFS 105; MAT 112.

**ACC 320 Tax Planning** (3,0,3) 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. PREREQ: junior standing; declared major in any bachelor's program; ACC 200 and ACC 201 with grade of C or better.

**ACC 350 Management Cost Accounting I** (3,0,3) Cost accounting concepts, techniques, and procedures relating to financial reporting; decision-making and responsibility accounting to help management plan and control operations. PREREQ: junior standing, declared major in any bachelor's program, and MAT 212, ACC 200-201-202 with grade of C or better.

**ACC 394 Topics in Accounting** (3,0,3) 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. PREREQ: junior standing; ACC 200 and ACC 201 with grades of C or better.

**ACC 396 Internship: Accounting** (0,10-19,1-2) Supervised paid or unpaid work experience related to accounting and coordinated by employer in conjunction with a member of accounting faculty. May be repeated to a total of 6 semester hours. Graded pass/fail. PREREQ: completion of ACC 200 and ACC 201 with grades of C or better.

**ACC 400 Auditing** (3,0,3) Principles, standards, and procedures in conduct of an audit by CPA; functions and responsibilities; internal control; statistical sampling, audit report; special problems of auditing electronic data-processing systems; account verification; ethics. Open only to students certified as majoring in business or by consent of instructor. Assessment test is given. PREREQ: ACC 301 and ACC 310 and ACC 350 with grades of C or better, ENG 340 or OST 310 or SPE 303.

**ACC 405 Operational Auditing** (3,0,3) Focuses on the theory and practice of auditing within organizations; internal auditing standards; operational and value-added auditing; business and control risk assessments, data gathering techniques including CAAT's, statistical sampling, e-business auditing issues, evaluating auditing evidence, reporting, fraud detection and prevention, and ethics. Open only to students certified as majoring in business or by consent of instructor. AICPA test of concepts is given. PREREQ: ACC 301, ACC 310 and ACC 350 with grades of C or better; ENG 340 or OST 310 or SPE 303.

**ACC 420 Advanced Tax Planning** (3,0,3) Federal tax consequences of corporate redemptions, liquidations, reorganizations, consolidated tax returns; partnership distributions and terminations; multijurisdictional considerations, international and multistate taxation; individual tax planning, deferred compensation, retirement planning, estate and gift taxation, succession planning. PREREQ: junior standing; declared major in any bachelor's program; ACC 320 with grade of C or better.

**ACC 430 Accounting for Non-Profit Institutions** (3,0,3) 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. PREREQ: ACC 301 with a C or better; declared major in any bachelor's program.

**ACC 450 Management Cost Accounting II** (3,0,3) 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. PREREQ: ACC 310 and ACC 350 with grades of C or better; ENG 340 or OST 310 or SPE 303.

**ACC 499 Independent Study: Accounting** (3,0,3) Independent project or intensive study/research with faculty guidance. Open only to students certified as majoring in business or by consent of instructor. PREREQ: senior standing and consent of instructor.

**ACC 501 Accounting** (21,0,21) Integrated accounting knowledge from the areas of financial accounting managerial accounting, systems, tax planning, auditing, fund accounting and business combinations. 75% of course is web-based, 25% is traditional format. Open only to students who have already earned a baccalaureate degree PREREQ: ACC 200 and ACC 201.

### Afro-American Studies

#### AFR

**AFR 100 Introduction to Afro-American Studies** (3,0,3) Origins, relevance, and scope of Afro-American studies, distinguishing the Afro-centric orientation by investigating the seven core subject areas of Afro-American studies; contributions and conditions of black women. *A general education course (social sciences, race/gender perspective or non-western perspective).*

### Anthropology

#### ANT

**ANT 100 Cultural Anthropology** (3,0,3) Definition and nature of culture, its content and structure (e.g., kinship, politics, and religion); basic field methods; emphasis on non-western cultures. *A general education course (behavioral sciences or non-western).*

**ANT 110 Introduction to Archaeology** (3,0,3) Change and development of prehistoric cultures from 3 million B.C. to early civilizations; selected Old World and New World cultures. Basic archaeological methods. *A general education course (behavioral science).*

**ANT 130 American Culture** (3,0,3) Contemporary American culture examined through comparative study and through American and international student interaction; use of observation, interviewing, recording, and analysis. *A general education course (behavioral sciences).* This course also satisfies the non-western perspective requirement for students from non-western cultures (Asia, Africa, Latin America, Middle East,) who have been in the U.S. one year or less. PREREQ: consent of instructor or adviser for international students.

**ANT 201 World Cultures** (3,0,3) Survey of world cultures, primarily non-literate, using various anthropological approaches; development from simple to more complex cultural systems. *A general education course (behavioral sciences or non-western perspective).* PREREQ: sophomore standing or consent of instructor.

**ANT 202 Introduction to Physical Anthropology** (3,0,3) Human genetics, primate behavior, humankind as biological organisms, relation of humans to culture, human evolution. *A general education course (behavioral sciences).* COREQ: ANT 202L.

**ANT 202L Introduction to Physical Anthropology Laboratory** (0,2,1) Laboratory focusing on human genetics, primate behavior, and human osteology. COREQ: ANT 202.

**ANT 210 Introduction to Archaeological Method and Theory** (3,0,3) Methods of archaeological excavation and analysis; how archaeologists interpret excavated material and reconstruct prehistoric ways of life. *A general education course (behavioral sciences).*

**ANT 215 Archaeological Field Methods** (3-4 sem. hrs.) Archaeological excavation methods; excavation at an archaeological site; excavation, recording, mapping, analysis. Summer. Three semester hours if taught during intersession; 4, if taught during 5-week session.

**ANT 230 North American Indians** (3,0,3) Origin; traditional ways of life; current position in American society. *A general education course (behavioral sciences or non-western perspective).* PREREQ: sophomore standing or consent of instructor.

**ANT 231 Modern American Indians** (3,0,3) Current problems faced by Indian populations in North America; history of Indian-white and Indian-black relations; relations to federal government. *A general education course (behavioral sciences or non-western perspective).* PREREQ: sophomore standing or consent of instructor.

**ANT 240 Peoples of Africa** (3,0,3) Archaeology, geography, history, and cultures of Sub-Saharan Africa to the present; culture area concept. *A general education*

*course (behavioral sciences or non-western perspective).* PREREQ: sophomore standing or consent of instructor.

**ANT 245 Peoples of Latin America** (3,0,3) Contemporary cultures of Latin America; problems of contact, colonization, acculturation, development of the area cultural tradition, and contemporary urbanization. *A general education course (behavioral sciences or non-western perspective).* Same as SOC 245. PREREQ: sophomore standing or consent of instructor.

**ANT 270 Native Australia & Oceania** (3,0,3) Origin; traditional ways of life of native peoples of Australia, Polynesia, Micronesia, and Melanesia; modern conditions. *A general education course (behavioral sciences or non-western perspective).*

**ANT 275 Language and Culture** (3,0,3) Methods and case studies in anthropological linguistics; relationship between language and culture; language structure. PREREQ: ANT 100.

**ANT 301 World Patterns of Race and Ethnicity** (3,0,3) Patterns of inter-group relations in multi-ethnic societies (e.g., South Africa, Brazil, Israel, and Northern Ireland); similarities and differences between these and U.S. Same as SOC 301. PREREQ: ANT 100 or SOC 100 or consent of instructor.

**ANT 307 Museum Methods** (2,2,3) 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** (3,0,3) 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. PREREQ: ANT 210.

**ANT 312 Social Organization** (3,0,3) Study of "primitive," peasant, and urban social organization; associations based on kinship, ethnic affiliation, age, and gender. PREREQ: ANT 100 or consent of instructor.

**ANT 320 Religion and Culture** (3,0,3) Anthropological approaches to the study of religion, religious beliefs, and practices of selected non-western and western cultures. PREREQ: ANT 100 or consent of instructor.

**ANT 325 Applied Anthropology** (3,0,3) Practical uses to which anthropology can be put solving problems through research, policy development, and administration; case studies in developmental anthropology, ethnic relations, medical anthropology, gerontology, and environmental anthropology; research project on selected topic. PREREQ: ANT100.

**ANT 330 Women, Gender and Culture, a Global Perspective** (3,0,3) 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. PREREQ: junior standing.

**ANT 335 Advanced Archaeological Field Methods** (3-4 sem. hrs.) 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 210 and ANT 215; consent of instructor.

**ANT 339 Introduction to Ethnographic Research (1,0,1)** Intro to principles of ethnographic research; readings; design of an ethnographic project. COREQ: ANT 340. PREREQ: ANT 100, junior standing and consent of instructor.

**ANT 340 Ethnographic Methods** (3,0,3) Each student conducts an individual ethnographic research project to be completed during the semester. COREQ: ANT 339. PREREQ: ANT 100; junior standing or consent of instructor.

**ANT 345 Environmental Anthropology** (3,0,3) Sociocultural patterns of human-environmental interaction; applied research on and policy solutions to environmental problems in the western and non-western worlds. PREREQ: ANT 100.

**ANT 350 North American Archaeology** (3,0,3) Prehistoric cultures and cultural developments in the United States and Canada from the first settlement to late

- prehistoric times; regional cultural developments. PREREQ: ANT 110 or ANT 210 or consent of instructor.
- ANT 352 Archeology of Mesoamerica** (3,0,3) Major pre-Colombian cultures of Mexico and Central America from earliest times until the Spanish conquest (Aztecs, Mayas, etc.); rise of towns, ceremonial centers, cities, states, and empires; development and elaboration of area and regional cultural traditions; selected problems in Mesoamerican prehistory. PREREQ: ANT 100 or ANT 110 or consent of instructor.
- ANT 354 South American Archaeology** (3,0,3) Cultures of South America from the earliest settlers through the Inca Empire and European conquests; tracing major technological advances and changes in social organization. PREREQ: ANT 110 or ANT 210.
- ANT 355 Archaeological Laboratory Analysis** (2,2,3) Follow-up study of excavated materials; artifact description, measurement, and analysis by students. PREREQ: ANT 210 or consent of instructor.
- ANT 358 Anthropology and the Arts** (3,0,3) Arts and art styles of Pacific, African, native North American, and other cultures; functions of art; relationship to other aspects of culture. PREREQ: 3 semester hours in anthropology or art.
- ANT 360 Indians of Mexico and Guatemala** (3,0,3) Aboriginal cultures of Mexico and Guatemala; economic, social, political, and religious aspects of traditional and contemporary Indian cultures. PREREQ: ANT 100 or consent of instructor.
- ANT 362 Japanese Culture and Society** (3,0,3) Contemporary culture and society of Japan; family life, kinship system, life cycle, socialization, social and political organization, economics, religion, and rural and urban life. PREREQ: ANT 100 or ANT 243 or consent of instructor.
- ANT 373 Underground Railroad in OH/KY Borderlands** (3,0,3) Examines the Underground Railroad locally from an anthropological perspective. The self pursuit of freedom by enslaved Africans, particularly enslaved women's experiences and the roles of abolitionists of diverse backgrounds. Historical heritage (freedom trail) project educates the local community about local slavery, resistance and escape utilizing field trips, ethnographic and primary research methods. PREREQ: Sophomore standing and consent of instructor.
- ANT 380 Origins of Civilization** (3,0,3) 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. PREREQ: ANT 110.
- ANT 391 Research Practicum I** (3,0,3) Placement with agency for supervised experience in developing or applying research skills. Students will also meet with other practicum students and faculty field supervisors. Same as SOC 461. PREREQ: ANT 460.
- ANT 392 Research: Archaeology** (1-6 sem. hrs.) Student investigation of selected archaeological topics chosen in consultation with instructor. PREREQ: ANT 210 and consent of instructor.
- ANT 394 Topics: Anthropology** (3,0,3) A newer development in any phase of anthropology. See *Schedule of Classes* for current topic and prerequisites.
- ANT 400 People in Cities** (3,0,3) Urbanization, industrialization, metropolitanization, and urban ecology; impact of large scale population aggregations on social institutions; adaptation and adjustment of migrants; developing nations. PREREQ: ANT 100 or consent of instructor.
- ANT 401 Culture Theory** (3,0,3) Development of the discipline; major theoretical and anthropological contributions. PREREQ: consent of instructor.
- ANT 410 Archaeological Theory** (3,0,3) Theoretical bases of archaeological research; research design, analysis, and interpretation; socio-cultural reconstruction. PREREQ: ANT 210 and consent of instructor.
- ANT 460 Research Practicum Preparation** (1,0,1) 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. PREREQ: SOC 322 or ANT 325.
- ANT 480 Advanced Anthropological Concepts** (1,0,1) Assessment testing, directed readings and individual projects in anthropology. To be taken in the student's last semester. PREREQ: anthropology major, senior standing, at least 24 semester hours in anthropology (at least 9 of these at the 300 or 400 level), and consent of instructor.
- ANT 491 Research Practicum II** (3,0,3) Continuation of ANT 461. Same as SOC 462.
- ANT 499 Independent Study** (1-6 sem. hrs.) Specialized aspect or topic in anthropology chosen by student and appropriate faculty member for study. PREREQ: junior or senior standing.

## Art ART

**ART 100 Art Appreciation** (3,0,3) Examination of major aspects of art to increase one's artistic awareness. *A general education course (fine arts).*

**ART 101 Survey of Western Art I** (3,0,3) Examination of significant art and architecture from prehistory through Medieval Period. *A general education course (fine arts).*

**ART 102 Survey of Western Art II** (3,0,3) Examination of Europe's major artists and styles from Renaissance to mid-19th century. *A general education course (fine arts).*

**ART 103 Survey of Western Art III** (3,0,3) A study of key artists and art movements in Europe and America from the late nineteenth through twentieth century. *A general education course (fine arts).*

**ART 104 Survey of Asian Art** (3,0,3) Major styles of architecture, sculpture, print-making, painting, and ceramics of India, South Asia, China, and Japan. *A general education course (fine arts or non-western perspective).*

**ART 111 Concepts in Art** (3,3,3) Survey of issues, concepts, and professions in art; introduction to faculty work and ideas; current thinking in the disciplines. COREQ: ART 124

**ART 123 Foundations: Studio I** (3,3,3) Introduction and investigation of elementary aspects of making and understanding visual art, both 2 & 3 dimensionally. Development of personal articulation both visually and verbally through research, documentation, critical thinking, and utilization of the "Design Process". Outside research will lend context to studio activity. PREREQ: ART 210.

**ART 124 Foundations: Studio II** (3,3,3) Continuation of ART 123; content driven; addressing issues of expression, interpretation; use of narration and symbolism in art; investigation will include more experimental forms of art. PREREQ: ART 123, 210. COREQ: ART 111.

**ART 130 Painting for Non-Majors** (3,3,3) Basic oil painting techniques to develop skills in painting; color mixing, various methods of paint application, basic drawing skills and canvas preparation, exercises in selecting subject matter and composition; use of models, still-life, and landscapes. Does not apply to major in studio art.

**ART 210 Drawing I** (3,3,3) Various media and subject matter; composition; development of ability to observe and perceive spatial relationships. COREQ: ART 123.

**ART 221 Web Design for Non-Majors** (3,0,3) Basic color theory; two-dimensional design; typography; layout; web design programs for non-majors. Basic Mac platform computer skills required.

**ART 224 Introduction to Computer Graphics for Design** (3,3,3) Integration of the computer as a tool in the design process to produce painted, drafted, and drawn imagery for print applications. May be substituted by CEP 300 with consent of instructor or academic adviser. PREREQ: Foundation Core.

- ART 225 Introduction to Graphic Design** (3,3,3) Principles and theory of graphic design aesthetics; introduction to materials and processes. PREREQ: ART 224 or consent of instructor. COREQ: ART 226.
- ART 226 Introduction to Typography** (3,3,3) Principles and theory of type for communication; design aesthetics of typography. PREREQ: ART 224, or consent of instructor. COREQ: ART 225
- ART 230 Painting I** (3,3,3) Use of oil painting media; focusing on fundamental painting techniques from direct observation; criticism and contemporary concepts. PREREQ: Foundation Core (or consent of instructor).
- ART 232 Painting: Watercolor** (3,3,3) Uses and fundamental and exploratory techniques of one of the traditional media in painting. PREREQ (waived for students not majoring in art): Foundation Core or consent of instructor.
- ART 240 Ceramics I** (3,3,3) Nature of clay and ceramic materials; traditional methods of pinch, coil, and slab formations. PREREQ (waived for students not majoring in art): Foundation Core or consent of instructor.
- ART 262 Sculpture I** (3,3,3) Introduction to sculpture concepts, media, and techniques. PREREQ: ART 122. PREREQ (waived for students not majoring in art): Foundation Core or consent of instructor.
- ART 272 Introduction to Printmaking** (3,3,3) Basic concepts in printmaking procedures: preparation of blocks and plates, inking, registration, printing by hand and with the press; relief, monoprint, and etching techniques. PREREQ (waived for students not majoring in art): Foundation Core or consent of instructor.
- ART 280 Art for Elementary Education** (3,3,3) Development of major forms of two-dimensional and three-dimensional art; creative problems. For students in elementary education. PREREQ: application to K-4 program or consent of instructor.
- ART 281 Concepts in Art Education** (3,3,3) Introductory course for beginning art educators materials and ideas. PREREQ: Foundation Core.
- ART 282 Art Curriculum and Teaching Methods in Elementary School** (3,3,3) Teaching art in elementary school; grounding in art of young children and in their special needs; creating appropriate art lessons. PREREQ: ART 281.
- ART 290 Basic Photography** (3,3,3) Basic camera work; black-and-white materials; photo-history; contemporary trends; basic black-and-white darkroom techniques. PREREQ: Foundation Core (permission of instructor for non-art majors).
- ART 299 Portfolio Review** (0,1,0) Critique forum to evaluate students' progress and skill level, to help students successfully complete the art degree program; mechanism for faculty to admit students to professional BFA programs. All students majoring in art must register for and pass Portfolio Review after 60 semester hours of university coursework or 21 semester hours in art. Can be repeated once for BFA admission only. Not required for BA students.
- ART 300 Art of the Book** (3,3,3) 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. PREREQ: Foundation Core (permission of instructor for non-art majors).
- ART 310 Intermediate Drawing** (3,3,3) Continuation of ART 210. 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. PREREQ: Foundation Core (permission of instructor for non-art majors).
- ART 315 Computers in Art** (3,3,3) Use of computers as an artist's tool to produce works of art and/or sketches for other finished pieces; researching art on internet; writing about art; basic computer skills (Macintosh based); introduction to a variety of approaches to word and image programs. PREREQ: Foundation Core or consent of instructor.
- ART 316 Art and the Internet** (3,3,3) Examining the internet for research, self-expression and self-promotion; create web-based art and websites using image and web programs; interactivity and conceptual linkages. Can be partially taught on-line. Taught spring semesters. PREREQ: Foundation Core or consent of instructor.
- ART 321 History of Design** (3,0,3) Survey of history of design fields; influences of graphic, fashion, industrial, and interior design; implications of typography and advertising on history. PREREQ: ART 103, ART 225, and ART 226, or consent of instructor.
- ART 323 Intermediate Computer Graphics for Design** (3,3,3) Principles of information design; the computer as a tool for design of advanced print and sequential graphic materials. PREREQ: ART 225, ART 226, or consent of instructor.
- ART 325 Graphics Production** (3,3,3) Development of preparatory art for utilization of industrial printing techniques and processes; copy preparation and mechanicals. May be substituted by CEP 300 with consent of instructor or academic adviser. PREREQ: ART 225, ART 226, and ART 323, or consent of instructor.
- ART 326 Illustration** (3,3,3) Techniques of creative rendering. PREREQ: ART 210, ART 230, and ART 310.
- ART 327 Advanced Typography** (3,3,3) Design of the printed page; design considerations in varied formats; principles of information design; exploration of the grid as format for design of sequential graphics. PREREQ: ART 225, ART 226, ART 321, and ART 325, or consent of instructor.
- ART 330 Painting II** (3,3,3) 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. PREREQ: ART 210 and ART 230, or consent of instructor.
- ART 333 Materials and Techniques in Painting** (3,3,3) Various paint media and techniques; professional studio methods; conceptual and craft development. May be repeated when topics vary for a maximum of 6 semester hours. PREREQ: freshman core courses, and ART 230, or consent of instructor.
- ART 340 Wheel Throwing** (3,3,3) 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. PREREQ: ART 240.
- ART 341 Ceramic Sculpture** (3,3,3) 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. PREREQ: ART 240 or consent of instructor.
- ART 342 Raku and Primitive Firing** (3,3,3) Advanced studio credit in Raku and primitive firing techniques. PREREQ: ART240.
- ART 349 Women And Art** (3,0,3) 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.
- ART 350 Ancient Art** (3,0,3) Painting, sculpture and architecture of Egypt, Greece, and Rome. PREREQ: ART 101-103.
- ART 351 Medieval Art** (3,0,3) Evolution of medieval art from late antiquity to end of Gothic period. PREREQ: ART 101-103.
- ART 352 Northern European Art of the Renaissance** (3,0,3) 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. PREREQ: ART 101-103.
- ART 353 Baroque Art** (3,0,3) European painting, sculpture, and architecture from 1600 to 1750. PREREQ: ART 101-103.
- ART 354 Art of the Nineteenth Century** (3,0,3) Sculpture and painting of Europe from the French Revolution to the end of the 19th century. PREREQ: ART 101-103.

- ART 355 Art of the Twentieth Century** (3,0,3) Major art styles in Europe and America. PREREQ: ART 101-103.
- ART 356 American Art** (3,0,3) Major development in the art of the U.S. from colonial times to the end of the 19th century. PREREQ: ART 101-103.
- ART 357 Art of the Italian Renaissance** (3,0,3) Art and architecture of the Italian Renaissance during the 15th and 16th centuries. PREREQ: ART 101-103.
- ART 358 History of Photography** (3,0,3) Survey of the major issues in the evaluation of photography from 1835 to the present.
- ART 359 Arts and Crafts of Japan** (3,0,3) Historical, cultural survey of Japanese arts and crafts; includes painting, printmaking, ceramics, textiles, gardening, Kabuki, and Noh drama. PREREQ: ART 104 or consent of instructor.
- ART 362 Special Topics in Sculpture: Concepts and Media** (3,3,3) 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. PREREQ: ART 262.
- ART 372 Lithography** (3,3,3) Introductory course; monoprinting on litho presses, preparation of stones and plates, drawing techniques, printing procedures. PREREQ: ART 111, ART 121, ART 122, and ART 210.
- ART 373 Intermediate Printmaking** (3,3,3) Continuation of introductory printmaking; further development of technique and personal imagery in various printmaking disciplines; relief, intaglio, monoprint, silkscreen, or colography. Repeatable to 6 semester hours. PREREQ: ART 272.
- ART 374 Techniques in Printmaking** (3,3,3) 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. PREREQ: Foundations core or consent of instructor. Repeatable to 12 semester hours.
- ART 382 Art Education: Curriculum and Instruction for Secondary Students** (3,3,3) Development of a meaningful approach to planning and initiating art at the secondary level; special needs of secondary students, multicultural issues; community-based art making. For art education students only. PREREQ: ART 111, ART 121, and ART 122. PREREQ or COREQ: ART 281 and ART 282.
- ART 390 Photography II** (3,3,3) Continuation of ART 290. PREREQ: ART 290.
- ART 391 Intermediate Photography** (3,3,3) 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. PREREQ: ART 390 or consent of instructor.
- ART 392 Applied Photography I: Studio and Architecture** (3,3,3) Overview of commercial photography; view camera for studio illustration and architecture. Alternates with ART 395 spring semester. PREREQ: ART 290.
- ART 393 Color Photography** (3,3,3) Advanced technical and visual problems in color photography. Taught fall semester. PREREQ: ART 391 or consent of instructor.
- ART 395 Applied Photography II: Studio and Location** (3,3,3) Commercial photography techniques; studio portraits, environmental portraiture, fashion, industrial photography, color materials, portfolio development. Alternates with ART 392 spring semester. PREREQ: ART 290; ART 390.
- ART 396 Photo-documentary** (3,3,3) The photo-documentary as an expression of history, sociology, and the human condition. Can be repeated for a total of 6 semester hours. Taught fall semester. PREREQ: ART 290.
- ART 397 Digital Photography I** (3,3,3) Introduction to digital photographic practices; pixel-based photographic controls for tone, color, retouching, masking, compositing, and special effects. PREREQ: ART 290.
- ART 410 Advanced Drawing** (3,3,3) 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 9 semester hours or a maximum of 12 semester hours. PREREQ: ART 310 for 6 semester hours.
- ART 421 Special Topics in Graphic Design** (3, 3, 3) Topics in graphic design. Topics listed in *Schedule of Classes* as topics change. Repeatable to 9 semester hours toward major in graphic design. PREREQ: ART 325, ART 327, and consent of instructor.
- ART 425 Advanced Graphic Design I** (3,3,3) Comprehensive graphic designing in project form; analysis and agency skills directed toward individual areas of specialization and professionalism. PREREQ: ART 325.
- ART 426 Advanced Graphic Design II** (3,3,3) Continuation of ART 425. PREREQ: ART 425.
- ART 428 Senior Project: Graphic Design** (3,0,3) Development of a single, comprehensive, student project reflecting cumulative knowledge in graphic design; furthering of organizational skills necessary to direct a design project from concept through production; development of professional practice skills, personal portfolio, and show.
- ART 430 Painting III** (3,3,3) 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. PREREQ: ART 330 and ART 333 for a total 9 semester hours, or consent of instructor.
- ART 440 Advanced Ceramics** (3,3,3) 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. PREREQ: 9 credits of 300-level ceramics.
- ART 442 Ceramics Materials and Techniques** (3,3,3) Clay and glaze theory and formulation; materials handling and studio maintenance; laboratory work, lectures, and research. Required of students who concentrate in ceramics. PREREQ: ART 340 or ART 341.
- ART 443 Kiln Construction** (3,3,3) Theory and practice; experimentation with methods and materials. PREREQ: ART 340.
- ART 450 Seminar: Advanced Studio** (3,0,3) Criticism of work, practical gallery experience, and expansion of awareness of contemporary professional realities in the exhibition and sale of one's work.
- ART 452 Arts of South Asia** (3,0,3) Cultural and historical topics on South Asian art and artifacts; aesthetics, architecture, film, literature, painting, and sculpture. PREREQ: ART 104 or consent of instructor.
- ART 454 Art Now** (3,0,3) In-depth study of contemporary art, the major movements and artists working today with an emphasis on the role of theory and criticism. PREREQ: 6 credit hours of ART Survey courses (ART 101, 102, 103, or 104) or consent of instructor.
- ART 458 Art History: Methodology and Criticism** (3,0,3) A practical guide and theoretical study of art historical and critical methods. PREREQ: ART 101, ART 102, and ART 103.
- ART 460 Sculpture: Advanced Study** (3,3,3) 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. PREREQ: 9 credits of 300-level sculpture.
- ART 473 Advanced Printmaking** (3,3,3) Advanced techniques in printmaking; development of personal imagery, refinement of technical skills, experimentation in mixed techniques; color printing. Repeatable to a maximum of 12 semester hours. PREREQ: ART 372, ART 373 or ART 374.
- ART 474 Workshop in Printmaking** (3,3,3) Independent study in advanced printmaking. PREREQ: consent of instructor. Repeatable to 12 hours.



**ART 490 Advanced Photography** (3,3,3) 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. PREREQ: ART 391 or consent of instructor.

**ART 492 Summer Workshop in Photography** (3,3,3) Intensive two-week workshop; the student is exposed to the technical, visual, and philosophical viewpoint of two or more visiting artists. PREREQ: ART 290.

**ART 493 Digital Photography II** (3,3,3) Digital manipulation of large photographic files; utilization of helper programs; exposure to contemporary professional practices PREREQ: ART 397.

**ART 494 Special Topics in Studio Art** (1-3 sem. hrs.) 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 to 6 semester hours toward major in art. PREREQ: consent of instructor.

**ART 497 Senior Exhibition** (0,1,0) Capstone experience for all students majoring in art. During the final semester of residency in the Department of Art, students will learn valuable skills of exhibition design and production, culminating in an exhibition of their work critiqued by a faculty committee. All students majoring in art must register for and pass Senior Exhibition. PREREQ: ART 299 (waived for BA students).

**ART 498 Independent Study** (3, 0, 3) 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. PREREQ: consent of instructor.

**ART 499 Gallery/Museum Internship** (3-6 sem. hrs) Student works in gallery or museum gaining practical experience in methods, procedures, and programming specific to professional exhibition venues in the visual arts.

## Astronomy

### AST

**AST 110 Solar Systems Astronomy with Laboratory** (3,2,4) 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. *A general education course (natural sciences)*.

**AST 115 Stars, Galaxies, and Cosmology with Laboratory** (3,2,4) Integrated lecture and laboratory; structure, dynamics, origin, and evolution of stars, galaxies, and the universe within framework of scientific methodology; laboratory activities on observational techniques and astrophysical processes. Knowledge of elementary algebra is helpful. *A general education course (natural sciences)*.

**AST 294 Topics: Astronomy** (1-3 sem. hrs.) Special topics in astronomy. Repeatable for a maximum of 12 semester hours. PREREQ: consent of instructor and consent of department chair.

**AST 315 Introductory Astrophysics** (3,0,3) Quantitative application of physical principles to subjects of astronomical interest; orbits, planetary atmosphere escape, interactions of radiation with matter, analysis of stellar atmospheres, and evolution and origin of the elements. Same as PHY 315. PREREQ: PHY 222 and MAT 120.

**AST 392 Directed Research: Astronomy** (1-3 sem. hrs.) 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. PREREQ: junior standing or consent of instructor.

**AST 394 Topics: Astronomy** (3,0,3) 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. PREREQ: AST 115 or consent of instructor.

**AST 397 Special Projects: Astronomy** (1-3 sem. hrs.) Completion of an independent project in astronomy. Repeatable for a maximum of 6 semester hours. PREREQ: junior standing or consent of instructor.

**AST 399 Independent Study: Astronomy** (1-3 sem. hrs.) Directed projects for advanced students. PREREQ: AST 301 and consent of instructor.

**AST 492 Directed Research: Astronomy** (1-3 sem. hrs.) 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. PREREQ: 8 semester hours of upper division physics or astronomy courses and consent of instructor.

## Athletic Training Program

### ATP

**ATP 296 Athletic Training Clinical I** (0,2,1) 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. Course has an associated clinical assignment that provides a supervised practical experience in a athletic training setting. PREREQ: HEA 135, PHE 280, BIO 208 (208L) and BIO 209 (209L).

**ATP 333 Lower Extremity Evaluation** (3,0,3) 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. PREREQ: PHE 280, BIO 208 (208L), and BIO 209 (209L).

**ATP 334 Upper Extremity Evaluation** (3,0,3) Knowledge, skills, and values required for an entry level certified athletic trainer to assess upper extremity injuries associated with athletes and the physically active. The course will focus on pathology, etiology, clinical skills for assessment, proper care, and referral to other health care personal when necessary. PREREQ: ATP 333, PHE 280, BIO 208 (208L), and BIO 209 (209L).

**ATP 394 Athletic Training II** (2,0,1) 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. PREREQ: Admission to the Athletic Training Program; ATP 333, PHE 280.

**ATP 396 Athletic Training Clinical III** (2,0,1) A laboratory instruction and evaluation of NATA education competencies and clinical proficiencies associated with the topics presented in ATP 334, 420, and PHE 370 and other athletic training major courses. Course has an associated clinical assignment that provides a supervised practical experience in an athletic training setting. PREREQ: Admission to the Athletic Training Program; ATP 333, 420, and PHE 370.

**ATP 420 General Medical for Athletic Training** (2 hours) 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. PREREQ: PHE 280, ATP 333, BIO 208 (208L), and BIO 209 (209L).

**ATP 425 Therapeutic Modalities** (3,1,4) 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. PREREQ: PHE 280, BIO 208 (208L), and BIO 209 (209L).

**ATP 430 Pharmacology for Athletic Training** (3,0,3) Exploration of legal, physiological, and ethical parameters governing the use of pharmacological agents commonly used in the athletic training settings. PREREQ: PHE 280, ATP 333, BIO 208, 208L, and BIO 209, 209L; admission into the Athletic Training Program or permission of instructor.

**ATP 435 Administration of Athletic Health Care (3,0,3)** 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. PREREQ: PHE 280.

**ATP 440 Rehabilitation of Athletic Injuries (3,1,4)** Provides the knowledge, skills, and values that entry-level certified athletic trainers must possess to plan, implement, document, and evaluate the efficacy of therapeutic exercise programs for rehabilitation and reconditioning of the injuries and illnesses of athletes and others involved in physical activity. The course has a one hour mandatory lab. PREREQ: PHE 280, 370, ATP 333, 334, BIO 208, 208L, and BIO 209, 209L.

**ATP 455 Current Issues in Athletic Training (2,0,1)** 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. PREREQ: PHE 360; admission to the Athletic Training Program or consent of instructor.

**ATP 494 Athletic Training Clinical IV (2,0,1)** 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. PREREQ: Admission to Athletic Training Program and ATP 430, 425, PHE 260, 440.

**ATP 496 Athletic Training Clinical (2,0,1)** 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. PREREQ: Admission to Athletic Training Program and ATP 435, 440, PSY 405, PHE 465.

### Applied Technical Sciences

#### ATS

**ATS 261 Engineering Material (2,2,3)** Structures, properties, applications, and failure modes of materials, both metallic and non-metallic; heat treatment and processing effects on microstructure; introduction to chemical properties; principles and applications of destructive and non-destructive testing. PREREQ: CHE 120.

**ATS 300 Statics and Strength of Materials (3,0,3)** 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. PREREQ: MAT 120 or MAT 122; PHY 211.

**ATS 340 Applied Dynamics (3,0,3)** Theories and applications of dynamic mechanics, including Newton's Laws, work, kinetics, impulse, and momentum. PREREQ: MAT 120 or MAT 121; PHY 211.

**ATS 361 Fluid Power (2,2,3)** Basic laws and concepts of fluid mechanics and their applications to fluid power circuits. PREREQ: MAT 120 or MAT 122; PHY 211.

**ATS 450 Thermodynamics and Heat Transfer (2,2,3)** 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. PREREQ: MAT 120 or MAT 122; PHY 211.

### Aviation Administration

#### AVA

**AVA 100 Introduction to Aviation (3,0,3)** Aviation from before powered flight through the social impact of space exploration and aerospace technology. Days, spring and fall; evenings, fall.

**AVA 120 Principles of Passenger and Air Cargo Management (3,0,3)** Planning, organization, directing, and controlling airlines. Evenings, spring.

**AVA 180 Theory of Flight (3,0,3)** Principles of flight; information on navigation, meteorology, aircraft operation, and air traffic-control necessary to pass Federal Aviation Agency (FAA) written examination for private pilot certificate. Days, spring and fall; evenings, fall.

**AVA 181 Theory of Flight II Advanced(3,0,3)** Advanced navigation problems and applications; uses of weather forecasts and data and in-flight advisories; performance charts, loading schedules, aircraft limitations, emergencies, flight systems, and pilot and crew duties; regulations pertaining to IFR and VFR flight and license; navigation chart interpretation of both VFR and IFR charts, national airspace uses; IFR departure, enroute, and arrival procedures. PREREQ: AVA 180.

**AVA 186 Flight Education II Advanced (1,6,3)** First of three phases of flight training in preparation for the FAA commercial and instrument pilot license; review and continuation of AVA 185; extensive navigation, including radio, VHF, and radar; night operations, night navigation, extensive basic instrument training. Fifteen hours of dual flight and 50 hours of solo flight necessary for credit. PREREQ: AVA 181 and AVA 185.

**AVA 200 Aviation Problems (3,0,3)** Individual study of vital areas in aviation; presentation and discussion of findings. Open only to graduating students. Evenings, spring

**AVA 210 Aviation Laws and Regulations (3,0,3)** Liability for property damage and personal injury; role and practices of the Civil Aeronautics Board (CAB); aviation taxation and financing; aircraft safety and accident investigation; role and practices of the FAA; criminal acts related to aviation. Evenings, fall.

**AVA 220 Aviation Marketing (3,0,3)** Marketing in the airline industry; identification of markets; promotion and sales practices; service philosophies. Evenings, spring.

**AVA 240 Airport Management (3,0,3)** Administrative problems of aviation, e.g., financing, personnel recruitment and training, community and public relations, scheduling, and governmental regulations. Evenings, fall.

**AVA 296 Internship: Aviation (1,10,3)** Supervised work experience for students majoring in aviation; field assignments in airport administration, commercial carrier companies, or fixed-base operations, as appropriate. Open only to graduating students.

**AVA 299 Independent Study: Aviation (1-3 sem.hrs.)** 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. PREREQ: consent of instructor.

### Business Administration

#### BAD

**BAD 233 Small Business Management (3,0,3)** Analysis of small business ownership and operation; financing, management, control, organization, record keeping, and personnel.

**BAD 305 Behavior in Organizations: Understanding Organizational Life (3,0,3)** 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. PREREQ: junior standing.

**BAD 490 Business Policy (3,0,3)** Application of theoretical knowledge to a wide variety of business situations; development of top management viewpoint in developing and assessing corporate strategy; case method and classroom presentations. Open only to students certified as majoring in business disciplines; recommended to be taken during the last 18 semester hours of business coursework. PREREQ: BAD 305, FIN 305, MGT 305, MKT 305, and senior standing.

**Biological Sciences****BIO**

- BIO 120 General Biology** (3,2,4) Cell biology; genetics; ecology; biological evolution and diversity. Not applicable to major or minor in biological sciences. *A general education course (natural sciences)*. PREREQ: A minimum ACT score of 18 in each division (or SAT equivalent), or completion of all pre-college curriculum courses, or consent of instructor. Fall, spring, summer.
- BIO 121 Systems Biology** (3,0,3) Nutritional, circulatory, excretory, respiratory, nervous, endocrine, reproductive, and developmental systems in plants and animals, emphasizing humans. Not applicable to major or minor in biological sciences. Spring. *A general education course (natural sciences)*. PREREQ: BIO 120.
- BIO 123 Human Ecology** (3,0,3) Human influence and impact on the environment; basic ecological principles; energy sources and utilization; ethical, economic, political, and legal aspects of environmental problems and concerns. Not applicable to major or minor in biological sciences. Spring. *A general education course (natural sciences)*. PREREQ: A minimum ACT score of 18 in each division (or SAT equivalent), or completion of all pre-college curriculum courses, or consent of instructor.
- BIO 125 Biological Perspective of Wellness** (3,0,3) Core concepts of structure and function of human systems; contemporary holistic health attitudes and practices. Not applicable to major or minor in biological sciences. Fall, spring. *A general education course (natural sciences)*. PREREQ: A minimum ACT score of 18 in each division (or SAT equivalent), or completion of all pre-college curriculum courses, or consent of instructor.
- BIO 126 Human Nutrition** (3,0,3) 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. Fall, spring. *A general education course (natural sciences)*. PREREQ: A minimum ACT score of 18 in each division (or SAT equivalent), or completion of all pre-college curriculum courses, or consent of instructor.
- BIO 129 Spring Flora of Kentucky** (1 sem. hr.) Identification and uses of Kentucky's spring flowering plants. Two weekends (Saturday and Sunday) of field work. Spring. PREREQ: BIO 120.
- BIO 131 Summer Flora of Kentucky** (1 sem. hr.) Identification and uses of Kentucky's summer flowering plants. Two weekends (Saturday and Sunday) of field work. Summer, on demand. PREREQ: BIO 120.
- BIO 150 Introduction to Biology I** (3,0,5) Interrelationships between organisms and their environment: evolution, systematics, and diversity; cellular reproduction and Mendelian genetics. *A general education course (natural sciences)* but suggested only for students majoring or minoring in biological sciences. Fall, spring. PREREQ: A minimum ACT score of 18 in each division (or SAT equivalent), or completion of all pre-college curriculum courses, or consent of instructor. COREQ: BIO 150L and BIO 150R. PREREQ or COREQ: CHE 120.
- BIO 150L Introduction to Biology I: Laboratory** (0,3,0) Laboratory to accompany BIO 150. *A general education course (natural sciences)* but suggested only for students majoring or minoring in biological sciences. COREQ: BIO 150 and BIO 150R.
- BIO 150R Biology Recitation** (1,0,0) Recitation to accompany BIO 150. COREQ: BIO 150 and BIO 150L.
- BIO 151 Introduction to Biology II** (3,0,5) Gene regulation; nutrient procurement; fluid transport; cell structure and function; photosynthesis and respiration. *A general education course (natural sciences)* but suggested only for students majoring or minoring in biological sciences. Spring, summer. PREREQ: BIO 150; COREQ: BIO 151L and 151R.
- BIO 151L Introduction to Biology II: Laboratory** (0,3,0) Laboratory to accompany BIO 151. *A general education course (natural sciences)* but suggested only for students majoring or minoring in biological sciences. COREQ: BIO 151 and BIO 151R.
- BIO 151R Biology Recitation II** (1,0,0) Recitation to accompany BIO 151. COREQ: BIO 151 and 151L.
- BIO 152 Biology Orientation I** (1,0,1) Introduction and orientation to the field of biology. Replaces BIO 150R for transfer students who already have first-year biology courses. Not open to students who have had BIO 150R.
- BIO 153 Biology Orientation II** (1,0,1) Introduction and orientation to the field of biology and to biological research. Replaces BIO 151R for transfer students who already have first-year biology courses. Not open to students who have had BIO 151R.
- BIO 160 Plants and Human Cultures** (1,4,3) Plants and their role in human history and cultures; development of agriculture; ecological role of plants; plant products (e.g., food plants, spices, drugs, fibers, wood, rubber); horticulture; plants in religion, art, music, literature; vegetation and people. Fall. PREREQ: BIO 120.
- BIO 202 Microbiology for Health Professionals** (2,4,4) Bacteriological techniques; control, epidemiology, and pathogenicity of microorganism; pathogen-host relationships; disease states. Fall, spring, summer. PREREQ: one semester of college biology and one semester of college chemistry (CHE 115 or above) or consent of instructor. COREQ: BIO 202L.
- BIO 202L Microbiology for Health Professionals: Laboratory** (0,4,0) Laboratory to accompany BIO 202. Bacteriological techniques. COREQ: BIO 202.
- BIO 208 Human Anatomy and Physiology I** (3,0,4) Introduction to human structure and function. Not applicable to major or minor in biological sciences. *A general education course (natural sciences)*. Fall, spring, summer. PREREQ: Composite ACT of 19 or any college biology or chemistry course with a grade of C or better or consent of instructor. COREQ: BIO 208L.
- BIO 208L Human Anatomy and Physiology I: Laboratory** (0,2,0) Laboratory to accompany BIO 208. Gross and microscopic morphology and application of physiological principles. *A general education course (natural sciences)*. COREQ: BIO 208.
- BIO 209 Human Anatomy and Physiology II** (3,0,4) Continuation of BIO 208 with emphasis on structure and function of organ systems. Students should complete both BIO 208 and 209 for an overall survey of human structure and function. Not applicable to major or minor in biological sciences. Spring, summer (on demand). PREREQ: BIO 208 or instructor consent. *A general education course (natural sciences)*. COREQ: BIO 209L.
- BIO 209L Human Anatomy and Physiology II: Laboratory** (0,2,0) Laboratory to accompany BIO 209. Gross and microscopic morphology and application of physiological principles. *A general education course (natural sciences)*. COREQ: BIO 209.
- BIO 211 General Botany** (2,0,4) Morphology; taxonomy; physiology; genetics; ecology; evolution. Spring. PREREQ: BIO150 or consent of instructor. COREQ: BIO 211L.
- BIO 211L General Botany: Laboratory** (0,4,0) Laboratory to accompany BIO 211. Field trips. COREQ: BIO 211.
- BIO 240 Information Resources in Biological Sciences** (2,0,2) Methodology of information retrieval and presentation; introduction to biological literature; independent library work. A course for the sophomore year. Fall, spring. PREREQ: BIO 150-151.
- BIO 241 Biometry** (3,0,3) 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. PREREQ: BIO 151-151L and MAT 114 or 205.
- BIO 250 Biological Photography** (1,4,3) Special photographic techniques applicable in the biological sciences; micro-, macro-, close-up, telescopic, nature, and time-lapse photography; digital and film techniques; independent laboratory work. Spring, odd-numbered years. Not applicable to major or minor in the Biological Sciences. PREREQ: BIO 150-151 or consent of instructor.
- BIO 262 Introduction to Tropical Field Studies** (1,10,4) Biota of tropical forests and methods of study of tropical environments. One week on campus and 4 weeks at biological station in Costa Rica. Summers. PREREQ: BIO 151 and permission of instructor.

- BIO 272 Medical and Biological Terminology** (3,0,3) Derivatives, prefixes, roots, and suffixes. Not applicable to major or minor in Biological Sciences. Fall. PREREQ: none.
- BIO 294 Topics: Biological Sciences** (1-3 sem. hrs.) In- depth study of specialized subject matter of general interest. May be repeated for credit when topic varies. Not applicable to major or minor in biological sciences. Offered on demand. PREREQ: consent of instructor.
- BIO 300 Comparative Vertebrate Anatomy** (3,0,5) Organs and organ systems of representative vertebrates; phylogentic relationships among vertebrate classes. Fall. PREREQ: BIO 150-151. COREQ: BIO 300L.
- BIO 300L Comparative Vertebrate Anatomy: Laboratory** (0,6,0) Laboratory to accompany BIO 300. COREQ: BIO 300.
- BIO 301 Invertebrate Zoology** (2,0,4) Classification, anatomy, physiology, ecology, and preservation of invertebrate animals. Fall, odd-numbered years. PREREQ: BIO 150-151. COREQ: BIO 301L.
- BIO 301L Invertebrate Zoology: Laboratory** (0,4,0) Laboratory to accompany BIO 301. Field trips. COREQ: BIO 301.
- BIO 302 General Microbiology** (2,0,4) Microbiological techniques; classification and morphology of microorganisms; biochemistry and control of growth; pathogenic microorganisms. Fall, spring. PREREQ: one semester of college chemistry and BIO 150 or consent of instructor. COREQ: BIO 302L.
- BIO 302L General Microbiology: Laboratory** (0,4,0) Laboratory to accompany BIO 302. Microbiological techniques. COREQ: BIO 302.
- BIO 303 Vertebrate Zoology** (2,0,4) Classification, evolution, life histories, ecology, and distribution of vertebrates. Fall, even-numbered years. PREREQ: BIO 150-151. COREQ: BIO 303L.
- BIO 303L Vertebrate Zoology: Laboratory** (0,4,0) Laboratory to accompany BIO 303. Field trips. COREQ: BIO 303.
- BIO 304 General Ecology** (3,0,3) Interrelationships between organisms and their environment. Fall. PREREQ: BIO 150-151.
- BIO 305 Vertebrate Embryology** (3,0,4) Principles and mechanisms of embryonic development. Fall, even-numbered years. PREREQ: BIO 150-151. COREQ: BIO 305L.
- BIO 305L Vertebrate Embryology: Laboratory** (0,2,0) Laboratory to accompany BIO 305. COREQ: BIO 305.
- BIO 306 Ecology Laboratory** (0,4,2) Sampling techniques, experimental design, and data analyses in ecological research. Field trips. Fall. COREQ or PREREQ: BIO 304.
- BIO 308 Plant Systematics** (2,0,4) Principles and practices; identification, classification, nomenclature, and evolution of vascular plants; major plant families of local flora. Fall, odd-numbered years. PREREQ: BIO 150-150L. COREQ: BIO 308L.
- BIO 308L Plant Systematics: Laboratory** (0,4,0) Laboratory to accompany BIO 308. COREQ: BIO 308.
- BIO 309 Plant Ecology** (2,0,3) Interrelationship of plants and their environment; classification, distribution, structure, and analysis of vegetation; plant succession; ecological methods. Field trips. On demand. PREREQ: BIO 150-151 or consent of instructor. COREQ: BIO 309L.
- BIO 309L Plant Ecology: Laboratory** (0,3,0) Laboratory to accompany BIO 309. Field trips. COREQ: BIO 309.
- BIO 310 Plant Morphology** (2,0,4) Structure, life history, and relationships of representative plants. Spring, even numbered years. PREREQ: BIO 150-151. COREQ: BIO310L.
- BIO 310L Plant Morphology: Laboratory** (0,4,0) Laboratory to accompany BIO 310. COREQ: BIO 310.
- BIO 311 Mycology** (2,0,3) Morphology, identification, evolution, ecology, and culturing techniques of fungi. Fall, even-numbered years. PREREQ: BIO 150 or consent of instructor. COREQ: BIO 311L.
- BIO 311L Mycology: Laboratory** (0,2,0) Laboratory to accompany BIO 311. COREQ: BIO 311.
- BIO 312 Dendrology** (1,0,3) Identification and vegetational aspects of woody plants, especially those of eastern U.S. Fall, even-numbered years. PREREQ: BIO 150-151 or BIO 211 or consent of instructor. COREQ: BIO 312L.
- BIO 312L Dendrology: Laboratory** (0,6,0) Laboratory to accompany BIO 312. Field trips. COREQ: BIO 312.
- BIO 320 Entomology** (2,0,4) Anatomy, physiology, ecology, behavior, life cycles, classification, and economic effects of insects. Fall, even-numbered years. PREREQ: BIO 150-151. COREQ: BIO 320L.
- BIO 320L Entomology: Laboratory** (0,4,0) Laboratory to accompany BIO 320. COREQ: BIO 320.
- BIO 330 Field Biology** (0,8,4) Observation, collection, identification, and preservation of local plants and animals. Field trips. Summer, on demand. PREREQ: BIO 150-151.
- BIO 340 Principles of Research** (2,0,2) Modern scientific methodology including research problem selection, experimental design, survey of scientific literature, and development of a research proposal; organization and presentation of biological information. Fall, spring. PREREQ: BIO 240.
- BIO 352 Genetics** (3,0,4) Gene concepts, interactions, and regulation; chromosomes; population genetics; extra chromosomal inheritance; genetics in human welfare. Fall, spring. PREREQ: BIO 150-151. COREQ: BIO 352L.
- BIO 352L Genetics: Laboratory** (0,2,0) Laboratory to accompany BIO 352. COREQ: BIO 352.
- BIO 358 Evolution of Organisms** (3,0,3) Mechanisms; historical and philosophical perspectives; empirical evidence; contemporary application. Spring. PREREQ: BIO 150-151 and BIO 352.
- BIO 360 Biology of the Cell** (3,0,3) Structure and function of cellular organelles; role of energy, membranes, nucleic acids, and proteins in cellular regulation; nature of nerve impulse. Spring. PREREQ: BIO 150-151 and one year of college chemistry (with laboratory).
- BIO 381 Human Nutrition and Metabolism** (3,0,3) Biochemistry and physiology of human nutritional requirements and deficiencies; current topics in nutrition, including food faddism, medical nutrition, and the world food crisis. Spring, even-numbered years. PREREQ: BIO 150-151 and CHE 310.
- BIO 396 Externship: Biological Sciences** (1-2 sem. hrs.) 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. Fall, spring, summer. PREREQ: BIO 150-151 and consent of instructor before registration.
- BIO 396 Practicum: Veterinary Medicine** (0,4,2) Work with a veterinarian specializing in large/small animals to learn skills and acquire practical information. For pre-veterinary students. Fall, spring. PREREQ: consent of instructor and a local veterinarian.
- BIO 399 Techniques: Biological Sciences** (1-2 sem. hrs. each) 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. Fall, spring, summer. PREREQ: BIO150-151, consent of instructor prior to registration.
- BIO 400 Molecular Biology** (2,0,4) 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. Spring. PREREQ: BIO 302, CHE

- 310-311, and consent of instructor; BIO 482 or CHE 482 recommended. COREQ: BIO 400L.
- BIO 400L Molecular Biology: Laboratory** (0,4,0) 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. COREQ: BIO 400.
- BIO 404 Herpetology** (3,0,4) Evolution, classification, anatomy, physiology, behavior, and ecology of reptiles and amphibians; identification of local species. Spring, odd-numbered years. PREREQ: BIO 150-151; BIO 300 or BIO 303 recommended. COREQ: BIO 404L.
- BIO 404L Herpetology: Laboratory** (0,3,0) Laboratory to accompany BIO 404. Field trips. COREQ: BIO 404.
- BIO 405 Invertebrate Paleontology** (3,0,4) Major phyla in the fossil record; paleobiological, systematic, and evolutionary aspects; collection and identification of local fossils. Fall, odd-numbered years. Same as GLY 402. PREREQ: BIO 301 or GLY 302 or consent of instructor. COREQ: BIO 405L.
- BIO 405L Invertebrate Paleontology: Laboratory** (0,2,0) Laboratory to accompany BIO 405. COREQ: BIO 405.
- BIO 407 Ornithology** (2,0,4) Classification, anatomy, physiology, behavior, ecology, and field identification of birds. Field trips. Intersession. PREREQ: one year of college biology and consent of instructor prior to registration. COREQ: BIO 407L.
- BIO 407L Ornithology: Laboratory** (0,6,0) Laboratory to accompany BIO 407. Field trips. COREQ: BIO 407.
- BIO 409 Biogeography** (3,0,3) Present and past geographical distribution of organisms. Spring, odd-numbered years. PREREQ: BIO 150-151.
- BIO 410 Conservation Biology** (3,0,3) Review of issues affecting modern conservation efforts: history, genetics, demography, biodiversity patterns, community change, global change, and environmental management. Spring, even-numbered years. PREREQ: BIO 150-151; BIO 304 and BIO 352 highly recommended.
- BIO 412 Agrostology** (1,0,3) Morphology, taxonomy, and biology of grasses, especially those of eastern U.S. Offered on demand. PREREQ: consent of instructor. COREQ: BIO 412L.
- BIO 412L Agrostology: Laboratory** (0,4,0) Laboratory to accompany BIO 412. Field trips. COREQ: BIO 412.
- BIO 416 Field Botany** (3-4 sem. hrs.) Observation, identification, and distribution of flora. Summer, even-numbered years. PREREQ: one year of college biology.
- BIO 421 Mammalogy** (3,0,4) Evolution, systematics, zoogeography, and natural history of mammals. Required field trips. PREREQ: BIO 150-151. COREQ: BIO 421L.
- BIO 421L Mammalogy: Laboratory** (0,3,0) Laboratory to accompany BIO 421. COREQ: BIO 421.
- BIO 422 Limnology** (2,0,4) Physical, chemical, and biological properties of inland waters; organization of aquatic communities, phytoplankton, zooplankton, and benthos, trophic dynamics and eutrophication; limnological methods and techniques. Fall, odd-numbered years. PREREQ: one year of college biology and one year of college chemistry; BIO 304 and BIO 340 recommended. COREQ: BIO 422L.
- BIO 422L Limnology: Laboratory** (0,4,0) Laboratory to accompany BIO 422. Field trips. COREQ: BIO 422.
- BIO 425 Mammalian Anatomy and Physiology I** (3,0,4) 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. Fall. PREREQ: BIO 150-151; CHE 310 or consent of instructor. COREQ: BIO 425L.
- BIO 425L Mammalian Anatomy and Physiology I Laboratory** (0,3,0) Laboratory to accompany BIO 425. Fall. COREQ: BIO 425.
- BIO 426 Mammalian Anatomy and Physiology II** (3,0,4) Regulation of physiological processes. Continuation of BIO 425. Spring. PREREQ: BIO 340, BIO 425 or consent of instructor. COREQ: BIO 426L.
- BIO 426L Mammalian Anatomy and Physiology II: Laboratory** (0,3,0) Laboratory to accompany BIO 426. Spring. COREQ: BIO 426.
- BIO 430 Immunology** (3,0,4) Biology of the immune response. Spring, odd-numbered years. PREREQ: one semester of microbiology and/or consent of instructor. COREQ: BIO 430L.
- BIO 430L Immunology: Laboratory** (0,2,0) Laboratory to accompany BIO 430. COREQ: BIO 430.
- BIO 440 Animal Behavior** (3,0,4) Nervous systems and neurophysiology; classification, genetics, evolution, and ecology of behavior; developmental and social behavior. Spring, even-numbered years. PREREQ or COREQ: BIO 340 or consent of instructor. COREQ: BIO 440L.
- BIO 440L Animal Behavior: Laboratory** (0,3,0) Laboratory to accompany BIO 440. COREQ: BIO 440.
- BIO 445 Anatomy of Vascular Plants** (2,0,4) Structure and differentiation of cells, tissues, and organs. Fall, even-numbered years. PREREQ: BIO 150-151, BIO 211. COREQ: BIO 445L.
- BIO 446 Plant Physiology** (3,0,5) Photosynthesis, cellular respiration, carbohydrate and protein metabolism, mineral nutrition, hormonal controls, and related topics in physiology of green plants. Spring, odd-numbered years. PREREQ: BIO 150-151 and CHE 311 (with laboratory). COREQ: BIO 446L.
- BIO 446L Plant Physiology Laboratory** (0,6,0) Laboratory to accompany BIO 446. COREQ: BIO 446.
- BIO 450 Biology of Normal and Abnormal Growth** (3,0,3) Growth processes in vertebrates, including normal body growth, organ growth, healing regeneration, and neoplasia. Spring, even-numbered years. PREREQ: BIO 150-151; BIO 305 recommended.
- BIO 455 Scanning Electron Microscopy** (0,6,3) Lecture-laboratory; theory and applications; phase contrast, polarizing, and transmission microscopes discussed for comparative purposes. Spring. PREREQ: one year of college biology and consent of instructor.
- BIO 460 Introduction to Marine Science** (3,2,4) Ecological processes in marine environments. Abiotic processes, productivity, coastal ecosystems, and marine biodiversity. Required field trip to coastal marine research laboratory. Fall, even-numbered years. PREREQ: BIO 151 and BIO 304. BIO 301 recommended.
- BIO 462 Tropical Ecology** (3,0,3) Unique features of tropical ecosystems, abiotic characteristics, gap dynamics biodiversity, plant-animal interactions, economic importance of tropical forests, causes and consequences of tropical deforestation. Spring, even-numbered years. PREREQ: BIO 304 or consent of instructor.
- BIO 463 Tropical Ecology Laboratory** (0,10,1) Practical experience in studying tropical biota. Taught during spring break at location in tropics every other year. PREREQ: BIO 304 and consent of instructor. BIO 462 recommended.
- BIO 465 Regional Biology** (3-5 sem. hrs.) Intensive study of flora and/or fauna of a particular region. May be repeated once for a different region. Offered on demand. PREREQ: one year of college biology and consent of instructor.
- BIO 467 Endocrinology** (3,0,3) Human endocrine system, hormonal control of body processes, and hormonal disorders. Fall, odd-numbered years. PREREQ: BIO 150-151 and CHE 310.
- BIO 470 Medical Microbiology** (3,0,4) Pathogenic bacteria and viruses; techniques for isolation, identification, and control of specific disease agents; functions of the immune response in preventing and promoting disease. Fall, even-numbered years. PREREQ: BIO 302. COREQ: BIO 470L.

**BIO 470L Medical Microbiology Laboratory** (0,2,0) Laboratory to accompany BIO 495. COREQ: BIO 470.

**BIO 474 Microbial Ecology** (3,0,3) Interrelationships of prokaryotic and eucaryotic microorganisms in aquatic and terrestrial environments; microbial sampling and analysis methods. Spring, odd-numbered years. PREREQ: BIO 302. COREQ: BIO 474L.

**BIO 474L Microbial Ecology: Laboratory** (0,2,0) Laboratory to accompany BIO 474. COREQ: BIO 474.

**BIO 475 Virology** (3,0,3) Classification, chemical composition, morphology, genetics, and replication of viruses, action of physical and chemical agents on viruses; host response to viral infection. Fall, odd-numbered years. PREREQ: BIO 302.

**BIO 482 Biochemistry I** (3,0,3) 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. Fall. Same as CHE 482. PREREQ: CHE 311.

**BIO 482L Biochemistry I Laboratory** (0,6,2) Advanced laboratory techniques used in isolation, purification, and characterization of amino acids, peptides, and proteins; training in use of modern equipment for experimentation and of computers for data analysis. Same as CHE 482L. PREREQ or COREQ: BIO 482 or CHE 482.

**BIO 483 Biochemistry II** (3,0,3) Metabolism, biosynthesis of cell components, nucleic acid replication, protein synthesis, DNA recombination, hormone action. Spring. Same as CHE 483. PREREQ: BIO 482 or CHE 482.

**BIO 491 Comprehensive Examination** (0,0,1) Comprehensive Examination. Examination covering entire area of biological sciences. PREREQ: 20 hours upper-division courses in Biological Sciences. Fall and Spring.

**BIO 492 Directed Research** (1-3 semester hrs. each) 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. Fall, spring, summer. PREREQ: BIO 340 and consent of instructor.

**BIO 494 Topics: Biological Sciences** (1-3 sem. hrs. each) In depth study of specialized subject matter. May be repeated for credit once when topic varies. Offered on demand. PREREQ: junior or senior standing in biological sciences or consent of instructor.

**BIO 496 Assistant: Undergraduate Laboratory** (1-2 sem. hrs.) 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. Fall, spring, summer. PREREQ: BIO150-151, biology GPA of at least 3.00, and permission of instructor prior to registration.

## Business

### BUS

**BUS 230 Legal Environment** (3,0,3) 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 334 Business Entities and Commercial Paper** (3,0,3) Forms of business organizations including partnerships and corporations: nature and formation, benefits, financing and securities regulation, rights and responsibilities; commercial paper: basic concepts, negotiability, holders in due course, liability, defenses, discharge, checks and the banking system. PREREQ: BUS 230; junior standing; declared major in any bachelor's program.

**BUS 396 Internship: Business** (0,10 or 15,2 or 3) 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. PREREQ: junior or senior standing and consent of instructor; declared major in any bachelor's program.

**BUS 532 CPA Law** (3,0,3) Legal topics relevant to professional accounting: contracts, agency, business entities, Uniform Commercial Code, and Securities law. PREREQ: BUS 230; junior standing; declared major in any bachelor's program or consent of Chair of Accountancy.

## Cooperative Education

### CEP

**CEP 101 Career Development** (2,0,2) Comprehensive overview of the career planning process; techniques of self assessment and career exploration; skills of decision making and job search. See *Schedule of Classes* for information on special sections for undeclared students, students interested in co-op, and students approaching graduation. PREREQ: completion of one semester of college coursework.

**CEP 300 Cooperative Education Experience I** (3 sem. hrs.) Supervised work experience relating to a student's academic major; employment learning experience planned, supervised, and coordinated by employer, faculty coordinator, and a member of the Career Development staff. Cooperative Education is open to all students. Students must apply to the Career Development Center. Maybe repeated to a total of 1-2 semester hours. Graded pass/fail.

## Chemistry

### CHE

**CHE 100 Chemistry and Society** (3,0,3) Basic principles of chemistry and their applications in society. For students not majoring in science. Enrollment in CHE 100L is recommended but not required. Cannot be taken for credit by students who have passed CHE 105. *A general education course (natural sciences).*

**CHE 100L Chemistry and Society Laboratory** (0,2,1) Simple laboratory techniques in experiments designed to study the properties of model compounds and consumer products; synthesis and analysis of common materials. *A general education course (natural sciences).* PREREQ or COREQ: CHE 100.

**CHE 105 Discovering Chemistry with Laboratory** (3,2,4) 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 100. *A general education course (natural sciences).*

**CHE 110 Introduction to Chemistry** (3,0,3) 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. Assumes knowledge of elementary algebra.

**CHE 115 Physiological Chemistry** (3,0,3) General, organic, and biological chemistry of the body; metabolism, pharmacology, toxicology, and nutrition. Not applicable toward a major or minor in the natural sciences. *A general education course (natural sciences).* PREREQ: high school chemistry or CHE 110. COREQ: CHE 115L.

**CHE 115L Physiological Chemistry Laboratory** (0,2,1) Laboratory elucidation of chemical and biochemical principles. *A general education course (natural sciences).* COREQ: CHE 115.

**CHE 120 General Chemistry I** (3,0,3) Principles of chemistry; physical and chemical properties of elements and compounds. PREREQ: high school chemistry or CHE 110. *A general education course (natural sciences).* COREQ: CHE 120L.

**CHE 120L General Chemistry Laboratory I** (0,3,1) Experiments describing principles of chemistry as well as those describing physical and chemical properties of elements and compounds. *A general education course (natural sciences).* COREQ: CHE 120.

**CHE 121 General Chemistry II** (3,0,3) Continuation of CHE 120. *A general education course (natural sciences).* PREREQ: CHE 120. COREQ: CHE 121L.

**CHE 121L General Chemistry Laboratory II** (0,3,1) Continuation of CHE 120L. PREREQ: CHE 120L. *A general education course (natural sciences)*. COREQ: CHE 121.

**CHE 310 Organic Chemistry I** (3,0,3) Introduction to the chemistry of carbon compounds; bonding, structure, and introductory analysis and synthesis. PREREQ: CHE 121.

**CHE 310L Organic Chemistry Laboratory I** (0,3,1) Introduction to the laboratory practice of organic chemistry; techniques and separations. PREREQ or COREQ: CHE 310.

**CHE 311 Organic Chemistry II** (3,0,3) Chemistry and properties of organic substances; reactions of functional groups, synthesis, and spectroscopic analysis. PREREQ: CHE 310.

**CHE 311L Organic Chemistry Laboratory II** (0,3,1) Reactions of organic compounds; identification of unknowns; synthesis. PREREQ: 310L. PREREQ or COREQ: CHE 311.

**CHE 320 Inorganic Chemistry** (3,0,3) Chemistry of the elements and their compounds; main group chemistry and coordination chemistry. PREREQ: CHE 310. COREQ: CHE 320L.

**CHE 320L Inorganic Chemistry Laboratory** (0,6,2) Advanced laboratory synthesis, purification, and characterization of inorganic compounds; application of techniques in primary literature. COREQ: CHE 320.

**CHE 340 Analytical Chemistry** (2,0,2) Chemical and stoichiometric principles; gravimetric, volumetric, and spectrophotometric analysis. PREREQ: CHE 121L. COREQ: CHE 340L.

**CHE 340L Analytical Chemistry Laboratory** (0,6,2) Quantitative determination of the elements; traditional chemical methods and some instrumental methods of analysis. COREQ: CHE 340.

**CHE 350 Instrumental Analysis** (2,0,2) Analytical techniques involving modern chemical instruments. PREREQ: CHE 340-340L. COREQ: CHE 350L.

**CHE 350L Instrumental Analysis Laboratory** (0,6,2) Experiments designed to familiarize students with modern analytical instruments. COREQ: CHE 350.

**CHE 360 Physical Chemistry I** (3,0,3) Classical thermodynamics, reaction equilibria, phase equilibria, and electrochemical systems. PREREQ: PHY 222 or PHY 213; CHE 121 and MAT 220.

**CHE 361 Physical Chemistry II** (3,0,3) Kinetic molecular theory of gases, chemical kinetics, transport processes, elementary quantum chemistry, and spectroscopy. PREREQ: CHE 360.

**CHE 362L Physical Chemistry Laboratory** (0,6,2) Experiments in thermodynamics, chemical kinetics, transport properties, spectroscopy, and elementary quantum chemistry. PREREQ or COREQ: CHE 361.

**CHE 363L Physical Chemistry Laboratory 3H** (0,6,3) Experiments in thermodynamics, chemical kinetics, transport properties, spectroscopy, and elementary quantum chemistry. Similar to CHE 362L, but more experiments are required. Not open to students who have taken CHE 362L. PREREQ or COREQ: CHE 361.

**CHE 396 Practicum: Chemistry Lab** (1,0,1) Participation in planning, teaching, and testing in a designated undergraduate chemistry laboratory course. Designed especially for students majoring in chemistry and in science education. Up to 2 semester hours may be earned in this course. Does not count toward a minor in chemistry. PREREQ: consent of instructor and completion of the designated laboratory course with a grade of *B* or better.

**CHE 399 Independent Study: Readings in Chemistry** (1-3 sem. hrs.) Independent survey of literature; written reports on selected topics. Repeatable for a maximum of 4 semester hours. PREREQ: 20 semester hours of chemistry and consent of instructor.

**CHE 400 Chemistry Seminar** (1,0,1) Techniques needed to search and report on chemical literature; oral seminar and written report required. PREREQ: 20 semester hours of chemistry.

**CHE 410 Spectrometric Identification of Compounds** (2,0,2) 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. PREREQ: CHE 310 and CHE 310L.

**CHE 420 Organometallic Chemistry** (1,2,1) Properties and uses of organometallic compounds; synthesis, purification, and characterization of organometallic compounds using current methods. PREREQ: CHE 311 and CHE 311L.

**CHE 440 Environmental Chemistry** (3,0,3) Chemistry as it applies to environmental problems and their solutions; analytical methods, energy needs, and biochemical application. PREREQ: CHE 311 and CHE 340, or consent of instructor.

**CHE 482 Biochemistry I** (3,0,3) Introduction to the chemistry of the molecules of life: carbohydrates, proteins, lipids; protein structure and function; enzyme mechanism; membrane structure and function; introduction to metabolism. Same as BIO 482. PREREQ: CHE 311.

**CHE 482L Biochemistry Laboratory** (0,4,2) Advanced laboratory techniques used in isolation, purification, and characterization of amino acids, peptides, and proteins; training in use of modern equipment for experimentation and computers for data analysis. Same as BIO 482L. PREREQ or COREQ: CHE 482 or BIO 482.

**CHE 483 Biochemistry II** (3,0,3) Metabolism, biosynthesis of cell components, nucleic acid replication, protein synthesis, DNA recombination, hormone action. Same as BIO 483. PREREQ: CHE 482 or BIO 482.

**CHE 492 Research: Chemistry** (1-3 sem. hrs.) Special project or research directed by a member of the chemistry faculty. Most projects require two semesters of work. Repeatable for a combined maximum of 12 semester hours. PREREQ: 5 semester hours of 300-level chemistry courses or above and consent of instructor or consent of both instructor and chair of chemistry. Does not apply toward a minor in chemistry.

**CHE 511 Advanced Organic Synthesis** (3,0,3) Analysis and design of complex syntheses, including total synthesis of natural products; stereochemical aspects of synthesis; asymmetric synthesis; spectroscopy in structure elucidation. PREREQ: CHE 311.

**CHE 512 Physical Organic Chemistry** (3,0,3) Current topics in spectroscopy, reaction mechanisms, and structure function correlations. PREREQ: CHE 311 and CHE 360.

**CHE 540 Electrochemistry** (3,0,3) Theory and experimental applications of electro-analytical methods. PREREQ: CHE 350 and CHE 361.

**CHE 560 Quantum Mechanics** (3,0,3) Principles of quantum mechanics, the hydrogen atom, variational methods, and simple perturbation theory. Same as PHY 460. PREREQ: CHE 361 or PHY 361.

**CHE 594 Topics in Chemistry** (1-3 sem. hrs.) 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. PREREQ: consent of instructor.

## Chinese

### CHI

**CHI 101 Elementary Chinese I** (3,1,4) Basic skills in pronunciation, conversation, reading, and writing in pinyin (romanized Chinese) and ideograms traditional and simplified. *A general education course (humanities)*.

**CHI 102 Elementary Chinese II** (3,1,4) Continuation of CHI 101; additional practice in conversation, pronunciation, reading, writing, and use of ideograms. *A general education course (humanities)*. PREREQ: CHI 101 or equivalent.

**CHI 201 Intermediate Chinese I (3,0,3)** Review and extension of basic language skills learned in CHI 101 and CHI 102; reading and discussion of cultural, linguistic, and literary subjects. *A general education course (humanities)*. PREREQ: CHI 102 or equivalent.

**CHI 202 Intermediate Chinese II (3,0,3)** Continuation of grammar review and enhancement of language skills begun in CHI 201; consideration of cultural, linguistic, and literary subjects. *A general education course (humanities)*. PREREQ: CHI 201 or equivalent.

### College of Business

#### COB

**COB 101 Introduction to Business (3,0,3)** 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.

**COB 300 Career Enhancement (1,0,1)** Designed to assist students planning careers in business with the transition from college to the workforce. PREREQ: junior standing. Graded pass/fail.

**COB 305 External Context For Business (3,0,3)** Interactions and interrelationships between the cultural, ethical, social, political, technological, and ecological factors constituting the external context for business; investigation of these topics through study of fiction and nonfiction, films and television programs, books, plays, and poems, and magazine, newspaper, and journal articles; guest speakers. Open only to students certified as majoring in a program leading to the bachelor of science in business administration. PREREQ: junior standing and certification as a business major.

### Computer Information Technology

#### CIT

**CIT 140 Introduction to Computer Information Technology (3,0,3)** Introduction to terminology and domain of computer information technology including hardware components and software applications. Overview of the role of networks, the WWW, operating systems, security and programming in information systems with a focus on the common problems faced in these domains and effective problem solving techniques that are applied. PREREQ: None

**CIT 370 Operating Systems Technology (3,2,4)** Examination of modern operating systems including memory, processor, device, file, and network management. Introduction to system administration via an operating system case study. PREREQ: C or better in CSC 262 and CIT 140.

**CIT 394 Intermediate Topics: Computer Information Technology (3,0,3)** Various topics in Computer Information Technology. PREREQ: varies with topic (see Schedule of Classes).

**CIT 470 Advanced Network and System Administration (3,2,4)** Administering a networked computer system. Account, network configuration, security, file system and device management. Writing administrative scripts. PREREQ: C or better in CIT 370.

**CIT 494 Advanced Topics: Computer Information Technology (3,0,3)** Various advanced topics in Computer Information Technology. PREREQ: varies with topic (see Schedule of Classes).

**CIT 496 Senior Practicum (3,0,3)** Students will work on information technology projects that allow them to integrate academic knowledge to real world situations. All placements require prior approval of instructor. PREREQ: CIT major, senior standing and approval of instructor.

### Computer Science

#### CSC

**CSC 150 Computer Concepts and Applications (3,0,3)** Survey of computer technology and computer science; basic practice with contemporary office applications; design of simple web pages; topics in computer ethics. PREREQ: C or better in MAH 099 or placement.

**CSC 160 Elementary Programming in Visual Basic (3,0,3)** Introduction to the Visual Basic language; designing, coding, debugging, and documenting com-

puter programs; problem solving applications. Not open to students who have passed CSC 260. PREREQ: C or better in MAH 099 or placement.

**CSC 170 Elementary Programming in C (3,0,3)** An introduction to programming for those with no prior experience. Focus is on those topics which are common to most programming languages; variables, control structures, and arrays. PREREQ: C or better in MAH 099 or placement.

**CSC 260 Computer Programming I (3,0,3)** Elementary object-oriented programming concepts and practice: types, decisions, loops, methods, arrays, classes; design and problem-solving. An intensive introduction intended for students with some computer experience. PREREQ: C or better in MAT 119 or placement. COREQ: CSC 260L.

**CSC 260L Computer Programming Laboratory (0,1.5,1)** Laboratory to accompany CSC 260 in which students gain hands-on experience in programming and using programming tools such as debuggers. PREREQ: C or better in MAT 119, COREQ: CSC 260.

**CSC 262 Computer Programming II (3,0,3)** 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. PREREQ: C or better in both CSC 260 and CSC 260L.

**CSC 299 Directed Readings/Independent Study (1-3 semester hours)** PREREQ: consent of instructor.

**CSC 301 Web Programming (3,0,3)** 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. PREREQ: C or better in CSC 262.

**CSC 350 Database Management Systems (3,0,3)** 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. PREREQ: C or better in CSC 262.

**CSC 362 Computer Systems (3,0,3)** 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. PREREQ: C or better in CSC 262.

**CSC 364 Data Structures and Algorithms (3,0,3)** Analysis and efficient implementation of container types such as stacks, queues, hash tables, search trees, and graphs; sorting algorithms. PREREQ: C or better in CSC 262.

**CSC 382 Computer Security (3,0,3)** Applied cryptographic algorithms and protocols, secure programming, host, network, and data security, attacks and defenses, policies and procedures. PREREQ: CSC 262.

**CSC 394 Intermediate Topics: Computer Science (3,0,3)** Various topics in computer science. PREREQ: varies with topic (see *Schedule of Classes*)

**CSC 399 Intermediate Directed Readings/Independent Study (1-3 sem. hrs.)** PREREQ: consent of instructor.

**CSC 402 Advanced Programming Methods (3,0,3)** High-performance 00 and generic programming in C++; concurrent and distributed programming; STL; multi-paradigm design patterns; extensive practice with sophisticated programming projects. PREREQ: C or better in CSC 362 and 364.

**CSC 407 Concepts of Programming Languages (3,0,3)** 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. PREREQ: C or better in CSC 362.

**CSC 410 Compiler Construction (3,0,3)** Lexical analysis; parsing; code generation; compiler project. PREREQ: C or better in CSC 402 and MAT 385.



**CSC 425 Artificial Intelligence** (3,0,3) Concepts and techniques of artificial intelligence; heuristic search, expert systems, AI languages, natural language processing, and elementary neural networks. PREREQ: C or better in CSC 364.

**CSC 433 Computer Networks** (3,0,3) Direct link networks, packet switching networks, internet working (IP), end-to-end protocols (TCP), Windows socket programming. PREREQ: C or better in CSC 362.

**CSC 440 Software Engineering** (3,1,4) Techniques in computer software specification, design, implementation, testing, documentation, and maintenance; development of a large-scale software project by students working in teams. PREREQ: C or better in CSC 402 and senior standing.

**CSC 460 Operating Systems** (3,0,3) Internal structures and algorithms for file systems, I/O, memory management and process scheduling; examples drawn from contemporary operating systems such as UNIX and Windows NT. PREREQ: C or better in CSC 362 and CSC 364.

**CSC 462 Computer Architecture** (3,0,3) Implementation of control unit and arithmetic-logic unit, microprocessor organization and design, main memory and cache organizations, I/O subsystem; RISC vs. CISC instruction sets, pipelining, parallel processing; mechanisms for evaluating computer architectures and microprocessor performance. PREREQ: C or better in CSC 362.

**CSC 464 Design and Analysis of Algorithms** (3,0,3) 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. PREREQ: C or better in CSC 364 and MAT 385.

**CSC 480 Computer Graphics** (3,0,3) Basic concepts of two- and three-dimensional computer graphics including incremental methods, geometric transformations, windowing and clipping, hidden line and surface algorithms, and animation. PREREQ: C or better in CSC 364 and MAT 225.

**CSC 485 Theory of Computation** (3,0,3) 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. PREREQ: C or better in MAT 385.

**CSC 493 Research Seminar in Computer Science** (1-3, 0, 1-3) Examination and presentation of contemporary research work in computer science. PREREQ: C or better in MAT 385 and CSC 364, and consent of instructor.

**CSC 494 Advanced Topics: Computer Science** (3,0,3) Various advanced topics in computer science. PREREQ: varies with topic (see *Schedule of Classes*).

**CSC 499 Advanced Directed Readings/Independent Study** (1-3 semester hours) PREREQ: consent of instructor.

**CSC 501 Intermediate Programming Workshop** (3,0,3) 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. PREREQ: graduate standing; background in computer programming and data structures.

**CSC 502 Advanced Programming Methods** (3,0,3) High-performance 00 and generic programming in C++; concurrent and distributed programming; STL; multi-paradigm design patterns; extensive practice with sophisticated programming projects. PREREQ: Regular admission to MSCS program.

**CSC 507 Concepts of Programming Languages** (3,0,3) 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. PREREQ: Regular admission to MSCS program.

**CSC 510 Compiler Construction** (3,0,3) Lexical analysis; parsing; code generation; compiler project. PREREQ: Regular admission to MSCS program.

**CSC 525 Artificial Intelligence** (3,0,3) Concepts and techniques of artificial intelligence; heuristic search, expert systems, AI languages, natural language processing, and elementary neural networks. PREREQ: Regular admission to MSCS program.

**CSC 533 Computer Networks** (3,0,3) Direct link networks, packet switching networks, internet working (IP), end-to-end protocols (TCP), Windows socket programming. PREREQ: Regular admission to MSCS program.

**CSC 540 Software Engineering** (3,1,4) Techniques in computer software specification, design, implementation, testing, documentation, and maintenance; development of large-scale project by students working in teams. PREREQ: Regular admission to MSCS program and CSC 502.

**CSC 550 Database Management Systems** (3,0,3) Database design, normal forms, concurrent processing, recovery, security, relational model, Structured Query Language, hierarchical and network models. PREREQ: Regular admission to MSCS program.

**CSC 560 Operating Systems** (3,0,3) 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. PREREQ: Regular admission to MSCS program.

**CSC 562 Computer Architecture** (3,0,3) Implementation of control unit and arithmetic-logic unit, microprocessor organization and design, main memory and cache organizations, I/O subsystem; RISC vs. CISC instruction sets, pipelining, parallel processing; mechanisms for evaluating computer architectures and microprocessor performance. PREREQ: Regular admission to MSCS program.

**CSC 564 Design and Analysis of Algorithms** (3,0,3) 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. PREREQ: Regular admission to MSCS program.

**CSC 580 Computer Graphics** (3,0,3) Basic concepts of two- and three-dimensional graphics including incremental methods, geometric transformations, windowing and clipping, hidden line and surface algorithms, and animations. PREREQ: Regular admission to MSCS program and MAT 225 or equivalent.

**CSC 585 Theory of Computation** (3,0,3) 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. PREREQ: Regular admission to MSCS program.

**CSC 593 Research Seminar: Computer Science** (1-3,0,1-3) Examination and presentation of contemporary research work in computer science. PREREQ: Regular admission into MSCS program.

**CSC 594 Intermediate Graduate Topics: Computer Science** (3,0,3) Various advanced topics. PREREQ: Regular admission to MSCS program and consent of instructor.

## Dance DAN

**DAN 120 Ballet I** (0,2-4,3) Introduction to technique for students with little or no dance training.

**DAN 220 Ballet II** (0,2-4,3) Intermediate level. PREREQ: consent of instructor or chair.

**DAN 221 Modern Dance I** (0, 2-4, 3) Beginning level.

**DAN 222 Jazz Dance I** (0,2-4,3) Introduction to jazz dance technique. For students with little or no jazz dance training. PREREQ: DAN 120

**DAN 224 Tap Dance I** (0,2,2) Introduction to tap dance technique. No previous training necessary.

**DAN 226 Foundation Seminar** (0-2-6,2) 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. PREREQ: 2 DAN classes and consent of instructor or chair.

**DAN 227 Special Topics in Dance** (0-2,2-4,2-6) 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** (0,2-4,3) Intermediate level. PREREQ: DAN 221 or consent of instructor or chair.

**DAN 322 Jazz Dance II** (0,2-4,3) Intermediate level. PREREQ: DAN 222 or consent of instructor or chair.

**DAN 324 Tap Dance II** (0,2-4,3) Dance work in tap dance: audition and performance preparation; techniques in choreography. PREREQ: DAN 224 or consent of instructor or chair.

**DAN 326 Advanced Dance Seminar I** (2-4, 2-6 each) Advanced work in dance (all genres may be explored) for students majoring in theatre and skilled dancers. PREREQ: consent of instructor or chair.

**DAN 375 Choreography** (3,3,3) Interpretations of ballets and stage musicals as expressed in movement and dance. PREREQ: 6 semester hours of dance or consent of instructor or chair.

**DAN 426 Advanced Dance Seminar II** (0-2, 2-4, 2-6) 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. PREREQ: consent of instructor or chair.

**DAN 427 Dance History** (3,0,3) Major contributing forces, key figures, and styles that helped form contemporary dance today. PREREQ: 6 semester hours of dance.

**DAN 428 Special Problems in Dance** (0,2-6,3) 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. PREREQ: 3 semester hours of dance.

## Economics

### ECO

**ECO 200 Principles of Macroeconomics** (3,0,3) Introductory macroeconomics; national income and employment; economic role of government; role of money and banking system; international trade. *A general education course (social sciences)*. PREREQ: sophomore standing.

**ECO 201 Principles of Microeconomics** (3,0,3) 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. *A general education course (social sciences)*. PREREQ: sophomore standing.

**ECO 215 Contemporary Economic Issues** (3,0,3) 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. *A general education course (social sciences)*. PREREQ: sophomore standing.

**ECO 300 Intermediate Macroeconomics** (3,0,3) 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. PREREQ: ECO 200-201, and MAT 111.

**ECO 301 Intermediate Microeconomics** (3,0,3) 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. PREREQ: ECO 200-201, MAT 111.

**ECO 302 Money and Banking** (3,0,3) Role of major financial sectors in determining aggregate supply of money and credit; competing theories on demand for money and their policy implications of the effect of money supply on important economic aggregates. PREREQ: ECO 200-201, MAT 111.

**ECO 310 Introduction to Econometrics** (3,0,3) Introduction to economic measurement; review of statistics, theoretical models, analysis of economic data, forecasting and other technical considerations; gathering, analyzing, and presenting economic information. PREREQ: ECO 200-201 and MAT 205 or MAT 212.

**ECO 320 History of Economic Thought** (3,0,3) Development of economic theory from the time of ancient Greece to John Maynard Keynes; major economic ideas of past and present and the individuals who developed those ideas. PREREQ: ECO 200-201.

**ECO 322 American Economic Development** (3,0,3) American economic history; processes of industrialization; widening of markets; extension of transportation communication networks. PREREQ: ECO 200-201.

**ECO 330 Regional Economics** (3,0,3) Application of economic analysis to explain spatial patterns of economic activity within subdivisions of the larger economic system. PREREQ: ECO 200-201.

**ECO 332 Public Finance** (3,0,3) Determination of optimum level output and distribution of public goods with regard to revenues, expenditures, and debt management; proposals for tax reform, equity in governmental expenditures, and utility regulation. PREREQ: ECO 200-201.

**ECO 340 International Economics** (3,0,3) Theory of international trade and finance; commercial and financial policies; foreign exchange; international monetary institutions; policies of free and controlled trade; world economic planning. PREREQ: ECO 200-201.

**ECO 342 Economic Development** (3,0,3) Changing economic circumstances over time; measuring economic development; factors causing economic development; domestic and foreign saving and investment; human capital and productivity; trade policy; exporting; other factors affecting economic development. PREREQ: ECO 200-201.

**ECO 344 Comparative Economic Systems** (3,0,3) Economic systems in today's world, especially England, France, Germany, the former Yugoslavia, Russia, China, India, Iran, and Saudi Arabia. PREREQ: ECO 200-201.

**ECO 350 Labor Economics** (3,0,3) Analysis of the functioning of labor markets with theoretical, empirical, and policy applications in determination of employment and wages in the U.S. economy. PREREQ: ECO 200-201.

**ECO 394 Topics: Economics** (3,0,3) Specialized topics of faculty and student interest. May be repeated twice when topics vary. PREREQ: ECO 200 and 201 or consent of instructor.

**ECO 494 Seminar in Economics** (3,0,3) Capstone course for economics majors. Discussion and analysis of contemporary economic problems. Different topics offered each semester. Papers and written assignments ordinarily required. PREREQ: ECO 300-301.

**ECO 499 Independent Study in Economics** (1-3 sem. hrs.) Directed readings, independent research, or student projects on areas of individual academic interest; topics, meeting times, and outcomes arranged with instructor. PREREQ: ECO 200-201.

**ECO 580 Economics for Teachers** (1-3 sem. hrs.) 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. PREREQ: consent of instructor.

**ECO 594 Topics: Teaching Economics** (1-3 sem. hrs.) Strategies and activities for teaching economics and selected economic topics at the elementary and secondary levels; instructional resources and their effective use in the classroom; sample curriculum guides; curriculum development activities. May be repeated for credit when topics vary. Open only to students majoring in education. PREREQ: consent of instructor.

**Master of Teaching****EDMT**

**EDMT 542 Methodology/Pedagogy in Middle School/Secondary Business/Marketing (3,0,3)** Theories, methods/techniques and technologies in designing, delivering and evaluating instruction in middle school and high school business/marketing.

**EDMT 543 Methodology/Pedagogy in Middle School/Secondary Science (3,0,3)** Theories, methods, techniques and technologies in designing, delivering and evaluating instruction in middle school and high school science.

**EDMT 544 Methodology/Pedagogy in Middle School/Secondary Math (3,0,3)** Theories, methods/techniques and technologies in designing, delivering and evaluating instruction in middle school and high school mathematics. COREQ: EDMT 696.

**EDMT 545 Methodology/Pedagogy in Middle School/Secondary Social Studies (3,0,3)** Theories, methods/techniques and technologies in designing, delivering and evaluating instruction in middle school and high school social studies. COREQ: EDMT 696.

**EDMT 599 Special Topics in Education (1-3 semester hours)** Individual or group in depth study. PREREQ: consent of MAT coordinator.

**Educational Specialities****EDS**

**EDS 322 Planning and Implementing Instruction for Students with Exceptionalities (2,0,2)** Adapting classroom instruction to meet the needs of challenging students; collaboration skills for effective planning for inclusive practices. PREREQ: EDU 360 or permission of instructor. COREQ: EDU 390 or EDU 391 or EDU 393.

**EDS 360 Students with Exceptionalities in the Schools (2,0,2)** Nature and needs of students with exceptionalities; overview of educational programming and legal issues in special education. PREREQ: PSY 100; COREQ: EDU 313, EDU 307 or EDU 309 or EDU 311.

**EDS 362 Applied Behavior Analysis for Students with Disabilities (3,0,3)** Principles of behavior analysis and research; classroom examples of behavior applications with students with disabilities. PREREQ: EDU 360. COREQ: EDU 464, EDS 472, and EDS 473.

**EDS 364 Characteristics of Learning and Behavior Disorders (3,0,3)** Nature and needs of students with learning or behavior disorders; factors to consider in providing appropriate educational programs. PREREQ: EDS 360.

**EDS 464 Assessment of Learning and Behavior Disorders (3,2,4)** Principles and procedures of assessment for placement of exceptional students; procedures for placement of exceptional students. PREREQ: EDS 360. COREQ: EDS 362, EDU 373, and EDS 472.

**EDS 472 Special Education Methods and Materials (3,0,3)** Materials, equipment, and methods for remediating learning and behavior disorders; information on alternative special education environments. COREQ: EDS 362, EDS 464, and EDS 473.

**EDS 473 Special Education Practicum (0,4,2)** Experiences in application of assessment, behavior intervention, and instructional methods with students with learning and behavior disorders. COREQ: EDS 362, EDS 464 and EDS 472.

**EDS 561 Mental and Orthopedic Disabilities (3,0,3)** Characteristics and educational programs for students who have mental retardation or orthopedic and/or other health impairments. PREREQ: EDG 666 or EDS 360 or equivalent.

**EDS 562 Early Childhood Special Education Programs (3,0,3)** Special needs of handicapped preschool children; adapting preschool programs to accommodate handicapped children. PREREQ: EDS 360 or equivalent.

**EDS 570 Working with Families of Students with Disabilities (3,0,3)** Information, skills, and resources for effective interaction with parents and families of children with disabilities. PREREQ: EDS 362 and EDS 364, or equivalent.

**EDS 572 Secondary Special Education Programs (3,0,3)** Characteristics of adolescents with learning and behavior disorders; educational programming for secondary students with mild disabilities. PREREQ: EDS 360 or EDG 660 and EDS 561.

**EDS 588 Professional Laboratory Experiences (3-6 sem. hrs.)** Classroom field experience in added area of certification; individual project. PREREQ: completed coursework for certification; valid teaching certificate.

**Education****EDU**

**EDU 291W Advanced Writing in the Education Professions (3,0,3)** Practice in a variety of expository forms; writing formal analytical essays; developing strong research skills; writing for several audiences and purposes; forms of writing common to needs of the education profession. *A general education course (Written Communications II)*. PREREQ: ENG 101 and sophomore standing.

**EDU 300 Human Growth and Development (3,0,3)** 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. PREREQ: PSY 100. COREQ: EDS 360, EDU 305, EDU 313, and one of EDU 303, EDU 309, EDU 307, or EDU 311.

**EDU 301 Young Child in School (3,0,3)** Familiarization of prospective teachers with behavior and development of the young child in the classroom; development of activities, materials, methods, guidance, and parent relations; clinical and field experience. PREREQ: Junior standing.

**EDU 302 Teaching of Reading (3,0,3)** Nature of the reading process; scope and sequence of reading skills; plans for organizing classrooms for instruction. PREREQ: admission to the teacher education program. COREQ: EDS 322, and EDU 390, EDU 314, EDU 315.

**EDU 303 Early Childhood Admission Practicum (0,2,2)** Field experience for students planning to teach in Kentucky's high-risk birth-through-three programs (Kentucky's Early Intervention System) or in Kentucky's public school preschool programs, serving 3-to-5 year old children with and without disabilities; individual and group activities to assist students in making realistic career decisions. PREREQ: 48 semester hours as specified in the curriculum contract; at least 2.50 GPA. COREQ: EDU 305 and EDU 313.

**EDU 304 Reading and Writing Across the Curriculum: Middle Grades (3,0,3)** Nature of the reading and writing process in the middle grades across the curriculum; theory, instructional methods, and materials. COREQ: EDU 315, EDS 322, and EDU 391.

**EDU 305 Introduction to Education (2,0,2)** 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. PREREQ: 48 semester hours as specified in the curriculum contract; at least 2.50 GPA. COREQ: EDU 313; EDU 303 or EDU 307 or EDU 309 or EDU 311.

**EDU 306 Teaching Elementary School Mathematics (3,0,3)** 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. PREREQ: MAT 140 and MAT 141, each with minimum grade of C; satisfactory completion of professional semester I; admission to the teacher education program. PREREQ: MAT 113 (or MAT 205 if Math emphasis) successfully completed with minimum grade of C. COREQ: EDU 308, EDU 310, EDU 312 and EDU 392.

**EDU 307 Admission Practicum for Elementary Grades (1,0,1)** Field experience for students planning to teach in elementary schools; individual and group activities to assist students in making realistic career decisions. PREREQ: 48 semester hours as specified in the curriculum contract; at least 2.50 GPA; approval of College of Education for enrollment in Admission Semester. COREQ: EDU 300, EDU 305, and EDU 313.

**EDU 308 Teaching Elementary School Science (3,0,3)** Skills and content of science within the framework of scientific method; concepts, methods, and materi-

- als. PREREQ: 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. COREQ: EDU 306, EDU 310, EDU 312, and EDU 392.
- EDU 309 Admission Practicum for Middle Grades (0,4,2)** Field experience for students planning to teach in middle schools; individual and group activities to assist students in making realistic career decisions. PREREQ: 48 semester hours as specified in the curriculum contract; at least 2.50 GPA. COREQ: EDU 300, EDU 305, EDU 313.
- EDU 310 Teaching Language Arts in the Early Grades (3,0,3)** Objectives, curricula, and instructional materials. PREREQ: ENG 101 and ENG 102 or equivalent; satisfactory completion of Professional Semester I; admission to the teacher education program. COREQ: EDU 306, EDU 308, EDU 312, and EDU 392.
- EDU 311 Admission Practicum for Secondary Grades (0,4,2)** Field experience for students planning to teach in middle or secondary schools; individual and group activities to assist students in making realistic career decisions. PREREQ: 48 semester hours as specified in the curriculum contract; at least 2.50 GPA; approval of College of Education for enrollment in Admission Semester. COREQ: EDU 300, EDU 305, and EDU 313.
- EDU 312 Teaching Social Studies in the Early Grades (3,0,3)** Objectives, curricula, and instructional materials. PREREQ: 6 semester hours of history/geography; successful completion of Professional Semester I; admission to the teacher education program. COREQ: EDU 306, EDU 308, EDU 310, and EDU 392.
- EDU 313 Computer Applications for Teachers (1,0,1)** Introduction to computer uses in education; utilization of the computer as a tool; introduction to word processing, data bases, and spreadsheets; computer ethics. PREREQ: CSC 150 or IFS 105 or College of Education Proficiency Test and 48 semester hours as specified in the curriculum contract. COREQ: EDU 305; EDU 303 or EDU 307 or EDU 309 or EDU 311.
- EDU 314 Classroom Management (3,0,3)** Recent research and theory related to planning, organizing, and managing student learning and behavior in the classroom. PREREQ: admission to the teacher education program. COREQ: EDU 315 and EDU 390, EDU 302, EDS 322.
- EDU 315 Educational Assessment (3,0,3)** Concepts and principles of testing needed to select, construct, and interpret assessment instruments used in schools. PREREQ: admission to the teacher education program. COREQ: EDU 304, or EDU 324, or EDU 302.
- EDU 316 Racism and Sexism in Educational Institutions (3,0,3)** 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. *A general education course (race/gender perspective).*
- EDU 317 Teaching Phonics (3,0,3)** The course content focuses on phonics as part of reading instruction. Students use children's literature to teach phonics in context. PREREQ: EDU 302 or EDU 304. Requires admission to teacher education program.
- EDU 318 Middle Grades and Secondary Classroom Climate Management (1,0,1)** Recent research and theory related to developing, maintaining, and managing an effective middle grades classroom climate. PREREQ: Admission to the teacher education program. COREQ: EDU 344 and EDU 394 (middle grade education students) and EDU 393, 324, EDS, 322.
- EDU 324 Fundamentals of Secondary Education (2,0,2)** Principles and strategies for effective secondary school teaching; curriculum planning, general teaching methods, and evaluation strategies; field based observation and teaching component. PREREQ: admission to the teacher education program. COREQ: EDU 393, EDU 318, EDS 322.
- EDU 330 Teaching Science in the Secondary School (2,2,3)** Principles and methods for teaching concepts, skills, and processes in accordance with national and state standards with emphasis on inquiry including design, implementation, assessment and evaluation, and reflection-on-practice strategies in connection with technology, meeting all students' needs and integration across the curriculum. PREREQ: C or better in at least 24 credit hours which vary according to major.
- EDU 331 Teaching Social Studies in the Secondary School (2,2,3)** Principles and practices related to teaching social studies in accordance with KERA: basic social studies skills, professional content, and planning, implementing, and evaluating instruction; campus and field based experiences. PREREQ: admission to the teacher education program, or concurrently with admission semester.
- EDU 333 Teaching Mathematics in the Secondary School (2,2,3)** 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 manipulatives and technology tools. PREREQ: admission to the teacher education program; MAT 120, MAT 220, and MAT 225.
- EDU 344 Fundamentals of Middle Grades Education (2,0,2)** Philosophy and learning theories forming the basis of the middle school program; curriculum and lesson planning, general teaching methods and motivation. PREREQ: admission to the teacher education program. COREQ: EDU 318 and EDU 394.
- EDU 345 Teaching Language Arts in Middle Grades (3,0,3)** Theory, content, and instructional strategies for teaching language arts in the middle-grades; field based observation and teaching component. PREREQ: 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. COREQ: EDU 394 or equivalent.
- EDU 346 Teaching Science in Middle Grades (2,2,3)** Theory, content, and instructional strategies; field-based observation and teaching component. PREREQ: 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. COREQ: EDU 394 or equivalent.
- EDU 347 Teaching Mathematics in Middle Grades (3,0,3)** 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 manipulatives and technology tools. PREREQ: at least 12 semester hours in mathematics including MAT 140 and MAT 141 each with a minimum grade of C, admission to Teacher Education Program, pursuance of middle-grades certification or extension in mathematics teaching area. COREQ: EDU 394 or the equivalent.
- EDU 348 Teaching Social Studies in Middle Grades (3,0,3)** Theory, content, and instructional strategies; field-based observation and teaching component. PREREQ: 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.
- EDU 390 Elementary Practicum I (0,2,1)** Application of instructional theory to elementary classroom settings in reading, management, and assessment. PREREQ: admission to the teacher education program; successful completion of EDU 307. COREQ: EDU 302, EDU 314, EDS 322.
- EDU 391 Middle Grades Practicum I (0,4,2)** Application of instructional theory to middle-grade classroom settings in reading, writing, management, inclusion, and assessment. PREREQ: successful completion of EDU 309; admission to the teacher education program. COREQ: EDU 304, EDU 315, and EDS 322.
- EDU 392 Elementary Practicum II (0,4,2)** Practice in planning and implementing instructional strategies in early elementary classroom settings. PREREQ: successful completion of Elementary Practicum I. COREQ: EDU 306, EDU 308, EDU 310, and EDU 312.
- EDU 393 Secondary Practicum (0,4,2)** Practice in planning and implementing instructional strategies with secondary school students in area schools. PREREQ: admission to the teacher education program. COREQ: EDU 324.
- EDU 394 Middle Grades Practicum II (0,4,2)** Practice in planning and implementing instructional strategies with middle grades students. PREREQ: successful completion of Middle-Grades Practicum I. COREQ: EDU 344, appropriate methods course.

**EDU 396 Secondary Practicum II** (0,4,2) Application of instructional theory to secondary classroom settings in management, assessment, and planning and implementing effective instructional strategies.

**EDU 491 Student Teaching with Early Childhood Endorsement** (12 semester hours) Classroom experience through observation, planning and teaching under supervision of experienced teacher; two one-half semester assignments chosen from the following: an approved infant/toddler program (part of Kentucky's Early Intervention Program), an approved preschool program, or a kindergarten classroom. PREREQ: admission to early childhood education student teaching program.

**EDU 492 Student Teaching in Elementary School with Special Education Endorsement** (14 sem. hrs.) Classroom experiences through observing, planning, and teaching supervised by an experienced teacher; eight-week assignment to an elementary classroom grades K-4; seven-week assignment to a special education program grades K-12; three week assignment to a special education program grades K-12 in a diagnostic category and program plan other than the seven-week special education assignment.

**EDU 493 Student Teaching in Middle Grades with Special Education Endorsement** (14 sem. hrs.) Classroom experiences through observing, planning, and teaching under supervision of an experienced teacher: eight-week assignment to a middle grades classroom, grades 5-9; seven-week assignment to a special education program grades P-12; three-week assignment to a special education program grades P-12 in a diagnostic category and program plan different from the seven-week special education assignment.

**EDU 494 Student Teaching in Elementary School** (12 sem. hrs.) 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. PREREQ: admission to the elementary education student teaching program.

**EDU 495 Student Teaching in Middle Grades** (12 sem. hrs.) Classroom experiences through observation, planning, and teaching under supervision of an experienced middle-grades teacher; grades 5-9. PREREQ: admission to the middle-grades student teaching program.

**EDU 496 Student Teaching in Secondary School** (12 sem. hrs.) Classroom experiences through observation, planning, and teaching under supervision of an experienced secondary teacher; full semester assignment to a secondary classroom, grades 8-12. PREREQ: admission to secondary student teaching.

**EDU 497 Student Teaching in Secondary Education with Special Education** (14 sem. hrs.) Classroom experiences through observing, planning, and teaching supervised by an experienced teacher; eight-week assignment to a secondary classroom grades 8-12; seven-week assignment to a special education program grades P-12; three-week assignment to a special education program in a diagnostic category and program plan other than the seven-week special education assignment.

**EDU 498 Senior Seminar** (2,0,2) Integration of theoretical foundations of education with student teaching experiences; inquiry into teaching, life in schools, and role of schools in American society. COREQ: EDU 490, EDU 492, EDU 494, EDU 495, or EDU 496.

**EDU 504 Context, Policy, and Organization of Middle/Secondary Education in Society** (4, 0, 4) Internal and external forces shaping the direction of education in America; school finance, school law, reform in education, multicultural education, historical antecedents, and philosophical undergirdings in education in America as related to contemporary educational theory and practice.

**EDU 505 Behavior, Development, and Learning** (3, 0, 3) Understanding of human development and behavior, the learning process, teaching models, and contemporary practices, procedures, and skills in the profession; obtaining information in these areas and applying it to the teaching process.

**EDU 515 Instructional Design and Curriculum** (3, 0, 3) Basics in formation and experiences regarding general curriculum theory and design for regular, exceptional, and multicultural students; visits to designated schools for practical application of curriculum and design.

**EDU 519 Effective Teaching and Learning** (3, 0, 3) Basic information and experiences in teaching and learning for middle/secondary teachers; teaching methods/strategies; research in teaching; classroom management, motivation, assessment, evaluation, and measurement; grading policies/procedures, communications, and technology.

**EDU 530 Reading in Junior and Senior High School** (3,0,3) 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 546 Teaching Environmental Education** (3,0,3) Principles and goals, curriculum models, teaching strategies, classroom and community resources, outdoor education, and research. PREREQ: admission to the teacher education program, or concurrently with the admission semester.

**EDU 550 Current Trends in Early Childhood Education** (2,0,2) Review of research in early childhood education; types of early childhood programs; parent education; working with disadvantaged children; significant issues in early childhood education. COREQ: EDU 551 (for graduate credit).

**EDU 551 Classroom Activities in Early Childhood Education** (0,2,1) Activities and instructional resources appropriate for preschool children. COREQ: EDU 550 (for graduate credit).

**EDU 564 Collaboration In Early Childhood Education** (3,0,3) Multidisciplinary and transdisciplinary teaming; communication skills necessary for collaboration; cultural differences, assistive technology, curriculum, and environmental designs with regard to collaborative early childhood programs. PREREQ: EDS 562 or equivalent.

**EDU 566 Assessment In Early Childhood Education** (3,0,3) Relation of best practices in traditional and dynamic assessment to child development; determination of eligibility for services; participation in a collaborative, supervised assessment of one child; writing an assessment report, IEP, and ISFP using assessment data. PREREQ: EDS 562 or equivalent.

**EDU 568 Administration and Supervision In Early Childhood Education** (3, 0, 3) Development of policies and procedures for administration and supervision in diverse early childhood programs; identification of funding sources; inquiry into ethical behavior and development of personal code of ethics and supervisory skills; program model design. PREREQ: EDS 562 or equivalent.

**EDU 594 Professional Laboratory Experiences** (12 sem. hrs.) Student participation in peer teaching experiences on campus and in field-based situations; materials, methods, innovative programs, and curricula; completion of a 12-week experience in the classroom; inquiry into teaching and the role of schools in American society.

**EDU 595 Special Topical Seminars** (3-6 sem. hrs.) Student participation in professional development seminars; trends, program dimensions, current issues in education and in the profession, and other culminating experiences.

**EDU 598 Orientation** (1-6 sem. hrs.) Student participation in orientation experiences in alternative teacher certification program; procedures, policies, standards, and resources; certification and program requirements; administration of CTBS and NTE batteries of tests to course participants; development of portfolios, KTIP procedures, and KERA requirements.

**EDU 599 Selected Problems in Education** (1-3 sem. hrs.) Individual or group in-depth study. PREREQ: consent of chair.

## Emergency Medical Technology

### EMT

**EMT 205 Emergency Medical Technology** (4,4,6) Emergency care and transportation of the sick and injured, cardiopulmonary resuscitation, including cardiac defibrillation and advanced airway management skills, bleeding control, sprain and fracture immobilization, emergency childbirth, medical and environmental emergencies, advanced medication modalities, and vehicular extrication. Prepares students to take the National Registry of Emergency Medical Technician Basic examination.

**English**  
**ENG**

**ENG 090 Writing Workshop** (3,0,3) Practice in a variety of writing forms; selecting topics, working through the writing process, and conferring with instructor and peers. One additional hour per week of tutoring in the Writing Center required. Not applicable toward graduation. For students needing additional preparation for ENG 101. COREQ: LAP 090.

**ENG 101 College Writing** (3,0,3) Study and practice of essay writing; reading, writing, and analyzing expository prose. *A general education course (written communications I)*. PREREQ: placement test, English ACT score as announced in current *Schedule of Classes* or ENG 090.

**ENG 110 English for International Students I** (3,0,3) Basic techniques of composition for foreign students. Preparation for ENG 101.

**ENG 111 English for International Students II** (3,0,3) May be taken as a continuation of ENG 110 or as a beginning course for more advanced students.

**ENG 112 Audiolingual English I** (3,0,3) Development of speaking ability and listening comprehension for foreign students; review of basic English sentence structure.

**ENG 113 Audiolingual English II** (3,0,3) May be taken as a continuation of ENG 112 or as a beginning course for more advanced students.

**ENG 151 Honors Freshman Composition** (3,0,3) An accelerated program of writing practice. Students study works appropriate to the humanities in a seminar setting. Enrollment limited to 15 per section. *A general education course (written communications II)*. PREREQ: 24 or above on the current ACT or a comparable score on the enhanced ACT, or equivalent; evidence of writing proficiency; approval of department.

**ENG 200 Introduction to Literature** (3,0,3) Critical rather than historical approach; readings in fiction, poetry, and drama. *A general education course (literature)*. PREREQ: ENG 101 or equivalent.

**ENG 201 Ideas in Literature** (3,0,3) Works representing a variety of literary forms and reflecting a common theme or motif. Topics vary. *A general education course (literature)*. PREREQ: ENG 101 or equivalent and sophomore standing.

**ENG 202 Survey of British Literature I** (3,0,3) Anglo-Saxon period to the 18th century; emphasis on more important writers, with attention to their cultural background. Required for the major in English. *A general education course (literature or humanities)*. PREREQ: ENG 101 or equivalent and sophomore standing.

**ENG 203 Survey of British Literature II** (3,0,3) Romantic period to the present; emphasis on more important writers with attention to their cultural background. Required for the major in English. *A general education course (literature or humanities)*. PREREQ: ENG 101 or equivalent and sophomore standing.

**ENG 206 Western World Literature I** (3,0,3) Important works of continental European literature, in translation, from its origins to the Renaissance. *A general education course (literature or humanities)*. PREREQ: ENG 101 or equivalent and sophomore standing.

**ENG 207 Western World Literature II** (3,0,3) Important works of continental European literature, in translation, from the Renaissance to the present; ideas, techniques, and influences. *A general education course (literature or humanities)*. PREREQ: ENG 101 or equivalent and sophomore standing.

**ENG 208 Survey of American Literature I** (3,0,3) Beginnings to the Civil War. *A general education course (literature or humanities)*. PREREQ: ENG 101 or equivalent and sophomore standing.

**ENG 209 Survey of American Literature II** (3,0,3) Civil War to the present. *A general education course (literature or humanities)*. PREREQ: ENG 101 or equivalent and sophomore standing.

**ENG 210 Survey of African American Literature** (3,0,3) Writings from many genres by male and female African American authors from pre-Civil War to the

present; cultural, political, economic, and social issues. *A general education course (literature or humanities)*. PREREQ: ENG 101 or equivalent and sophomore standing.

**ENG 211 Survey of Women's Literature I** (3,0,3) Writing from many genres by women of many cultures from antiquity through the 19th century. *A general education course (literature or humanities)*. PREREQ: ENG 101 or equivalent and sophomore standing.

**ENG 212 Survey of Women's Literature II** (3,0,3) Writing of many genres by women of many cultures from the early 20th century to the present. *A general education course (literature or humanities)*. PREREQ: ENG 101 or equivalent and sophomore standing.

**ENG 215 Greek and Roman Mythology** (3,0,3) 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. PREREQ: ENG 101 or equivalent and sophomore standing.

**ENG 216 Studies in Non-western Literature** (3,0,3) Mythology, poetry, drama, prose, and fiction selected from one or several non-western literatures (e.g., Chinese, Arabic, African, Indian, Japanese). Subject matter of course may vary. *A general education course (non-western perspective only)*. PREREQ: 3 semester hours of literature.

**ENG 231 Introduction to Creative Writing** (3,0,3) Creative writing, emphasis on composing fiction and/or poetry. PREREQ: ENG 291 or equivalent.

**ENG 265 Literature and the Human Experience** (3,0,3) Poetry, drama, and fiction as portrayals of the range and complexity of human experience from the perspectives of writers from many cultures and many ages. Designed for students in the English honors program. *A general education course (literature or humanities)*. PREREQ: ENG 151.

**ENG 266 Folklore and Literature** (3,0,3) Introduction to folklore genres (e.g., myth, fairy tale, proverb, ballad) and their use or redaction in written literature. *A general education course (literature or humanities)*. PREREQ: ENG 101 or equivalent and sophomore standing.

**ENG 291 Advanced College Writing** (3,0,3) Practice in a variety of expository forms. *A general education course (Written Communications II)*. May not be used to meet requirements for the major in English. PREREQ: ENG 101 and sophomore standing.

**ENG 300 American Women Poets** (3,0,3) Lives and works of selected poets, including African-Americans. *A general education course (literature or humanities)*. PREREQ: 3 semester hours of literature.

**ENG 301 American Novel** (3,0,3) Novels from various periods; techniques, ideas, and social implications. *A general education course (literature or humanities)*. PREREQ: 3 semester hours of literature.

**ENG 302 Literature and Film** (3,0,3) The art of film and its relationship to literature; films shown are cinematic versions of literary texts or have special relationships to literature. *A general education course (literature or humanities)*. PREREQ: 3 semester hours of literature.

**ENG 303 British Novel** (3,0,3) Selected novels from various periods; narrative technique, historical context, and social implications. *A general education course (literature or humanities)*. PREREQ: 3 semester hours of literature.

**ENG 305 American Women Writers** (3,0,3) Works representing a variety of literary forms by American women writers, from the 17th through the 20th century. *A general education course (humanities or literature)*. PREREQ: 3 semester hours of literature.

**ENG 308 Shakespeare I** (3,0,3) The early period, the English histories, the comedies, and Hamlet. *A general education course (humanities or literature)*. PREREQ: 3 semester hours of literature.

**ENG 309 Shakespeare II** (3,0,3) Plays not studied in ENG 308, including the romances, satires, and tragedies. *A general education course (humanities or literature)*. PREREQ: 3 semester hours of literature.

- ENG 311 Tragedy** (3,0,3) The tragic vision of life from its beginnings in Athens to the modern period; theories of tragedy; plays and novels that embody the tragic spirit. *A general education course (literature or humanities)*. PREREQ: 3 semester hours of literature.
- ENG 312 Comedy** (3,0,3) Comic genres and techniques from ancient Greek comedy to recent films, novels, and plays; important theories of comedy. *A general education course (literature or humanities)*. PREREQ: 3 semester hours of literature.
- ENG 314 Modern European Literature in Translation** (3,0,3) Art, ideas, and traditions in major literary works of the 19th and 20th century continental authors. *A general education course (literature or humanities)*. PREREQ: 3 semester hours of literature.
- ENG 315 The Bible as Literature** (3,0,3) Nonsectarian presentation of biblical history, ideas and literary forms and techniques. *A general education course (humanities or literature)*. PREREQ: 3 semester hours of literature.
- ENG 318 The Short Story** (3,0,3) An historical, critical, and evaluative study of the short story as a distinct literary genre. *A general education course (literature or humanities)*. PREREQ: 3 semester hours of literature.
- ENG 320 Satire** (3,0,3) Techniques of the satirist and the development of satire, especially in prose. *A general education course (literature or humanities)*. PREREQ: 3 semester hours of literature.
- ENG 331 Persuasive Writing** (3,0,3) Theory and practice of contemporary and classical persuasion; analysis of professional writing and student themes. PREREQ: ENG 291.
- ENG 332 Fiction Writing** (3,0,3) Techniques of short story, novelette, novel, and drama; in-class analysis of student work and the subsequent revision, reevaluation, and marketing of student writing. PREREQ: ENG 231.
- ENG 334 Poetry Writing** (3,0,3) Practice in techniques of writing poetry; in-class analysis of student poems and the subsequent revision, reevaluation, and marketing of student work. PREREQ: ENG 231.
- ENG 340 Business Writing** (3,0,3) 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. PREREQ: ENG 291 or equivalent.
- ENG 345 Legal Writing** (3,0,3) 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. PREREQ: ENG 291 or equivalent.
- ENG 347 Technical Writing** (3,0,3) 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. PREREQ: ENG 291 or equivalent.
- ENG 348 Professional Editing in the Workplace** (3,0,3) 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. PREREQ: ENG 291 or equivalent with C or better.
- ENG 349 Web Writing for the Workplace** (3,0,3) Theoretical and practical grounding in analyzing, planning, and implementing web-based publications, including integration of textual/visual materials and use of 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. PREREQ: ENG 291 or equivalent.
- ENG 350 Literary Criticism** (3,0,3) Introduction to the practice of literary criticism. Various critical approaches to be introduced and applied to works of early and late periods of literature. PREREQ: 6 semester hours of literature.
- ENG 351 Nineteenth Century American Literature** (3,0,3) Major authors of 19th century American fiction, essays, and poetry. May be repeated once for credit when topics vary. PREREQ: 6 semester hours of literature.
- ENG 352 Modern American Literature** (3,0,3) Trends in form and content in 20th century American writing. May be repeated once for credit when topics vary. PREREQ: 6 semester hours of literature.
- ENG 353 Contemporary American Novel** (3,0,3) Themes and techniques of particular importance in contemporary American novels. PREREQ: 6 semester hours of literature.
- ENG 354 Southern Women Writers** (3,0,3) Selected fiction by southern women writers from Kate Chopin to Flannery O'Connor, including African-Americans. Myth versus reality of the southern lady and patterns of women's lives presented in fiction of the late 19th and 20th century South. Satisfies 3 semester hours of American literature requirement for the major in English. PREREQ: 6 semester hours of literature.
- ENG 355 Women's Autobiographical Writing** (3,0,3) Reading, writing about, and editing for publication women's personal writing: journals, autobiographies, and autobiographical fiction, including that done by minorities and Third World women. PREREQ: 3 semester hours of literature.
- ENG 357 Biographical Writing** (3,0,3) Reading, writing about, and writing biography; theory, practice, and analysis of biography as literary genre. PREREQ: 6 semester hours of literature.
- ENG 358 Writing in Creative Genres** (3,0,3) 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. PREREQ: ENG 231.
- ENG 359 Writing in Workplace Genres** (3,0,3) 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. May be repeated for credit when genre changes. PREREQ: ENG 340, 347, or 348.
- ENG 362 Studies in Dramatic Literature** (3,0,3) Study of various periods and kinds of dramatic literature. May be repeated when topics vary. PREREQ: 6 semester hours of literature.
- ENG 363 Studies in Regional American Literature** (3,0,3) Various regional literatures, e.g., those of Kentucky and southern Appalachia. May be repeated for credit when topics vary. PREREQ: 6 semester hours of literature or consent of instructor.
- ENG 364 Studies in American Literature** (3,0,3) Works reflecting a common theme, genre, era, or literary movement. May be repeated for credit when topics vary. PREREQ: 6 semester hours of literature.
- ENG 365 American Folklore** (3,0,3) Folk narrative, poetry, songs, customs, beliefs, etc., of regional, ethnic, and occupational groups across the U.S.; methods of collecting, classifying, and studying folklore. PREREQ: ENG101 or equivalent and sophomore standing.
- ENG 366 Studies in Literary Genres** (3,0,3) Study of one or more genres from various periods and cultures; techniques, structures, sub-genres, and themes. May be repeated as topics vary. PREREQ: 6 semester hours of literature.
- ENG 370 Focus on United States Civilization** (3,0,3) Topics for interdisciplinary study, e.g., the 1890s, the 1920s the 1930s, British views of America, political movements, ideological trends, and 19th century ideas. PREREQ: 6 semester hours of literature.
- ENG 371 Traditional Grammar** (3,0,3) 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. PREREQ: ENG 101 or ENG 151 with a grade of C or better.

- ENG 380 Studies in Literature and Other Arts** (3,0,3) Literary works compared with musical compositions, with paintings, or with both music and painting. May be repeated for credit when topics vary. PREREQ: 6 semester hours of literature.
- ENG 381 Introduction to Linguistics** (3,0,3) Methods of analyzing language. Satisfies the linguistics requirement for English majors seeking secondary certification. PREREQ: 6 semester hours of English; junior standing.
- ENG 382 History of the English Language** (3,0,3) 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. PREREQ: 6 semester hours of English; junior standing.
- ENG 384 Modern Poetry** (3,0,3) Prosodic theory; practice in interpretation of poetic texts. PREREQ: 6 semester hours of literature.
- ENG 385 Teaching of English I** (3,1,3) Combination of theoretical and practical problems in the teaching of writing and grammar. Required of all students majoring in English who seek secondary certification. PREREQ: admission to teacher education program or valid secondary teaching certificate.
- ENG 386 Children's Literature** (3,0,3) For students seeking provisional certification in elementary education. PREREQ: 3 semester hours of literature.
- ENG 387 Teaching of English II** (3,0,3) Combination of theoretical and practical problems in the teaching of literature. Required of those seeking secondary certification in English. PREREQ: admission to teacher educational program or valid secondary teaching certificate.
- ENG 394 Topics: African American Literature** (3,0,3) 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. PREREQ: 3 semester hours of literature. *A general education course (literature and race/gender).*
- ENG 396 Internship: Editing I** (3,0,3) Introduction to evaluation of manuscripts, proofreading, copy editing, and other responsibilities of journal editing under supervision of faculty sponsor. May not be used to meet requirements for the major in English. PREREQ: 291 or equivalent.
- ENG 401 Chaucer** (3,0,3) Close reading of *The Canterbury Tales*; selections from Troilus and Criseyde and the minor works. PREREQ: 6 semester hours of literature.
- ENG 402 Middle English Literature** (3,0,3) Advanced survey of British literature in Middle English, excluding Chaucer; lyrics, Langland's *Piers Plowman*, works of the Pearl poet, and selected prose writers. PREREQ: 6 semester hours of literature.
- ENG 403 Old English** (3,0,3) Language and literature of Anglo Saxon England. PREREQ: 6 semester hours of literature.
- ENG 411 Elizabethan Literature** (3,0,3) The period of Marlowe, Sidney, Spenser, and Shakespeare. PREREQ: 6 semester hours of literature.
- ENG 412 Seventeenth Century Literature** (3,0,3) The period of Bacon, Donne, Jonson, and Milton. PREREQ: 6 semester hours of literature.
- ENG 414 Non Shakespearean Elizabethan Drama** (3,0,3) Shakespeare's predecessors and contemporaries. PREREQ: 6 semester hours of literature.
- ENG 416 Studies in Renaissance Literature** (3,0,3) Works reflecting a common topic, genre, or literary movement. May be repeated for credit when content varies. PREREQ: 6 semester hours of literature.
- ENG 420 Pre 1800 Exploration/Travel Literature** (3,0,3) Comparative study of the rhetoric, contexts, and uses of pre-1800 exploration and travel narratives, particularly those depicting cross-cultural encounters and non-western landscapes. PREREQ: 6 semester hours of literature.
- ENG 421 Restoration and Eighteenth Century Literature** (3,0,3) Significant works of literature written between 1660 and 1798; satire, comedy of manners, novel, and poetry in the context of social backgrounds. PREREQ: 6 semester hours of literature.
- ENG 422 Studies in Eighteenth Century Literature** (3,0,3) 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. PREREQ: 6 semester hours of literature.
- ENG 425 Eighteenth Century British Novel** (3,0,3) 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. PREREQ: 6 semester hours of literature.
- ENG 431 Screenwriting** (3,0,3) 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. PREREQ: ENG 231 or equivalent.
- ENG 442 Studies in British Literature Since 1775** (3,0,3) Works reflecting a common theme, genre, or literary movement. May be repeated for credit when topics vary. PREREQ: 6 semester hours of literature.
- ENG 451 Romantic Literature** (3,0,3) Genius, originality, irony, Christianity, nature, symbol, and myth in major romantic poets. PREREQ: 6 semester hours of literature.
- ENG 452 Victorian Literature** (3,0,3) Poetry, fiction, prose, and myth in the age of Tennyson, Hardy, Carlyle, and Eliot. PREREQ: 6 semester hours of literature.
- ENG 453 Nineteenth/Twentieth Century Ideas** (3,0,3) Revelation in Romantic poetry to disintegration in mid-century British fiction. PREREQ: 6 semester hours of literature; PHI 150 recommended.
- ENG 454 Nineteenth Century British Novel** (3,0,3) Aesthetic and analytical approach to major British novels of the 19th century. PREREQ: 6 semester hours of literature.
- ENG 470 Twentieth Century British Novel** (3,0,3) Aesthetic and analytical approach to major British novels of the 20th century. PREREQ: 6 semester hours of literature.
- ENG 471 Thomas Hardy and D. H. Lawrence** (3,0,3) Study of the fiction and poetry as critical profiles of the Victorian past and as reflections of our own ways of thinking and seeing. PREREQ: 6 semester hours of literature.
- ENG 485 Studies in Literary Theory** (3, 0, 3) A particular theoretical approach, issue, or problem. May be repeated for credit when content varies. PREREQ: 3 semester hours of literature.
- ENG 494 Senior Seminar** (3,0,3) Intensive study of a specific topic or problem. PREREQ: 6 semester hours of literature.
- ENG 496 Internship: Editing II** (3,0,3) Editorial duties associated with production of department and university publications under supervision of faculty sponsor. May not be used to meet requirements for the major in English. PREREQ: ENG 396 or equivalent.
- ENG 496 Internship: Writing Pedagogy** (3,0,3) Intended for students majoring in English who are interested in strategies for teaching writing on the university level; peer tutoring of student writing under supervision of a faculty sponsor. May not be used to meet requirements for the major in English. PREREQ: junior standing and consent of instructor.
- ENG 497 Project: Writing** (1-3,0,1-3) Independent study for advanced students undertaking projects in creative, expository, or journalistic writing. May be taken twice for a total of 6 semester hours. PREREQ: written consent of a full-time member of the Faculty of Literature and Language.
- ENG 499 Independent Study of American Literature** (1-3,0,1-3) Open to outstanding students. PREREQ: 6 semester hours of literature and consent of instructor.
- ENG 499 Independent Study of British Literature** (1-3,0,1-3) Open to outstanding students. PREREQ: 6 semester hours of literature and consent of instructor.



**ENG 530 Readings in the English Language (3,0,3)** Topics about the language and its use: specialized readerships, applications, and theories. May be repeated for credit when topics vary. PREREQ: 6 semester hours of literature at the undergraduate level.

**ENG 540 Problems in English (3,0,3)** Pedagogical topics such as rhetoric, literary analysis, and evaluation of student work; topics suitable for elementary and secondary teachers. May be repeated for credit when topics vary. PREREQ: 6 semester hours of literature at the undergraduate level.

**ENG 580 Studies in Literature (3,0,3)** Special topics in literature; genres, interdisciplinary subjects, individual authors. May be repeated for credit when topics vary. PREREQ: 6 semester hours of literature at the undergraduate level.

### Entrepreneurship

#### ENTP

**ENTP 150 Overview of Accounting (3,0,3)** Introduction to financial information generated by typical business organizations, with special emphasis on the use and interpretation of this information in managerial and financial decision-making processes by entrepreneurs. Enrollment priority given to ENTP minors. May not be substituted for ACC 200. Not open to students with credit for ACC 200 or ACC 201. Same as ACC 150.

**ENTP 200 Introduction to Entrepreneurship (3,0,3)** Overview course using applied learning to introduce students to entrepreneurship. Open to students not certified as business majors.

**ENTP 250 Fundamentals of Management and Marketing (3,0,3)** Introduction of basic concepts, applications and techniques of management and marketing in organizations. Open to students not certified as business majors.

**ENTP 300 New Venture Creation (3,0,3)** This course presents an overview of entrepreneurship. During the semester we will examine entrepreneurs and the entrepreneurial mindset; learn to recognize and create opportunity; develop and test the business concept; assess the industry and analyze risks associated with customers, markets, financial considerations and legal concerns. Students will come away with a clear understanding of what entrepreneurship is and how they can use the entrepreneurial mindset to succeed in their chosen career. PREREQ: ENTP 150 or (ACC 200 and 201) and MGT 205 or (BAD 305), junior standing, or consent of instructor.

**ENTP 333 New Venture Management (3,0,3)** As an integrative management 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. PREREQ: ENTP 300 or consent of instructor.

**ENTP 375 Marketing Strategies for Entrepreneurial Businesses (3,0,3)** 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. PREREQ: ENTP 300 or consent of instructor.

**ENTP 376 New Venture Financing (3,0,3)** 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. PREREQ: ENTP 300 or consent of instructor.

**ENTP 377 Family Business Management (3,0,3)** This course provides an overview of the importance of family firms and the unique problems and opportunities they face. Family businesses represent the interests of two distinct, yet overlapping institutions: the firm and the family. Actual family business case studies are used to examine these issues. Family business owners serve as invited speakers. PREREQ: ENTP 300 or consent of instructor.

**ENTP 378 Emerging Enterprise Law (3,0,3)** This course involves the study of legal issues surrounding emerging enterprises, including, new venture formation, choice of legal entity, financing, siting and leases, intellectual property,

debtor-creditor relations, contracts and employment law. PREREQ: ENTP 300 or consent of instructor.

**ENTP 405 Corporate Entrepreneurship (3,0,3)** 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. PREREQ: ENTP 300 or consent of instructor.

**ENTP 496 Entrepreneurial Internship (3,0,3)** 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. PREREQ: ENTP 333 or consent of instructor.

**ENTP 497 Senior Portfolio: Writing the Business Plan (3,0,3)** 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. PREREQ: ENTP 496 or consent of instructor.

### Environmental Science

#### ENV

**ENV 110 Introduction to Environmental Science (3,0,3)** A non-laboratory introduction to the basic tenets of Environmental Science and Environmental Issues including the biological and physical components of ecosystems, the impact of resource development, management and pollution on the functionality of ecosystems and the well being of the living community, and the economic, political and legal aspects of environmental decision making. A requirement for entry into the Environmental Science program. Taught in fall.

**ENV 240 Information Resources (2,0,2)** Methodology of information retrieval and presentation; introduction to scientific literature; independent library work. A course for the sophomore year. Fall, Spring. (PREREQ: ENV 110, BIO 151, CHE 121.

**ENV 340 Principles of Research (2,0,2)** Modern scientific methodology including research problem selection, experimental design, survey of scientific literature, and development of a research proposal; organization and presentation of scientific information. Fall and Spring. PREREQ: ENV 240.

**ENV 350 Environmental Toxicology (3,0,3)** A non-laboratory course designed for the junior year covering the principles of environmental toxicology. The content focuses on properties of toxic chemicals that influence their distribution and transformation in the environment; action of environmental forces that affect toxicant breakdown, movement, and accumulation; sources and occurrences of major classes of environmental toxicants, and risk assessment. Taught in fall. PREREQ: ENV 340, BIO 304, BIO 306, CHE 311.

**ENV 380 Field Methods in Environmental Sciences (2,0,2)** This is a laboratory and field course designed to expose students to the methods of data and sample collection most commonly used in environmental sciences. Due to the variable nature of sampling and analytical techniques, this course will meet 4 hours per week. During laboratory exercises this will be 2 hours twice weekly; during field sampling this will be 4 hours on a Saturday. Taught in spring.

**ENV 396 Internship: Environmental Science (3,0,3)** Experimental 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. Fall, Spring, Summer. PREREQ: ENV 340 and permission of Environmental Science director.

**ENV 400 Seminar: Environmental Science (1,0,1)** Discussion and analysis of current environmental problems. For juniors and seniors majoring in environmental science.

**ENV 492 Directed Research in Environmental Science (1-3 semester hours)** 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. Fall, Spring, Summer. PREREQ: ENV 340 and permission of instructor and environmental research program director.

**ENV 494 Topics: Environmental Science (1,0,1)** Discussion and analysis of current environmental problems. For junior and senior students majoring in environmental science. Spring.

**ENV 494 Special Topics: Environmental Science (1-3 sem.hrs.)** Special training in Occupational Safety and Health Administration (OSHA) regulations, hazardous material handling, radiation safety, chain of custody of data, reports and samples, rapid bioassessment techniques, etc. Topics and number of hours credited will vary according to course availability, interest and need of students. These topics may be taught by agencies/employees outside the university. The nature of the material requires a flexible schedule and courses may actually occur as 40 hours during one week. A schedule and description of material will be made available during priority registration. Summer. PREREQ: ENV 340.

## Finance

### FIN

**FIN 205 Personal Financial Management (3,0,3)** Practical and realistic methods to manage personal finances effectively; buying and selling, negotiating, investing, insuring, and planning; valuing stocks and bonds; retirement investing and buying insurance for property and self. PREREQ: sophomore standing.

**FIN 305 Principles of Finance (3,0,3)** 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. PREREQ: ACC 205 or ACC 200-201, MAT 212, and junior standing.

**FIN 315 Financial Management (3,0,3)** Financial management concepts relating to dividend policy, capital structure theory, working capital management, common stock and bond issuance, hybrid financing, mergers, and acquisitions. PREREQ: FIN 305.

**FIN 320 Financial Planning Process and Taxation (3,0,3)** Practical approach to basic tax structure pertaining to individuals and businesses and its importance in financial planning; individual financial planning decisions and their tax implications. PREREQ: FIN 205, FIN 305, and junior standing.

**FIN 325 Capital Budgeting (3,0,3)** Principles of capital budgeting applied to project evaluations in a case study environment; decision making under certainty and uncertainty, ranking techniques, cost of capital estimation, and hurdle rates; abandonment decision; leasing alternative; role of capital budgeting in the strategic decision making process of the firm. PREREQ: FIN 305.

**FIN 335 Working Capital Management (3,0,3)** Management of short term assets and liabilities; determining the optimal holdings of cash, inventory, and accounts receivables as well as their financing; cases used extensive use of cases to relate concepts to actual decisions made by firms. PREREQ: FIN 305.

**FIN 345 Investment and Security Analysis (3,0,3)** 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. PREREQ: FIN 305.

**FIN 355 Principles of Risk Management and Insurance (3,0,3)** Fundamental principles of risk and insurance; applications to risk situations and pension and group insurance. PREREQ: FIN 305.

**FIN 365 Financial Markets and Institutions (3,0,3)** Securities markets, savings and loan associations, insurance companies, pension funds, credit unions, broker dealer operations, and government agencies and their role in the economy. PREREQ: FIN 305.

**FIN 375 Commercial Bank Management (3,0,3)** Management processes and operations in commercial banks; economic significance of the commercial bank industry and its contribution to business development. PREREQ: FIN 305.

**FIN 385 Financial Planning Process and Estate Planning (3,0,3)** 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. PREREQ: FIN 205, FIN 305, and junior standing.

**FIN 394 Topics: Finance (3,0,3)** 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. PREREQ: FIN 305, and junior standing.

**FIN 405 Derivative Securities (3,0,3)** 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. PREREQ: FIN 305; certified major in any business program.

**FIN 415 International Finance (3,0,3)** 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. PREREQ: FIN 305; certified major in any business program.

**FIN 425 Quantitative Techniques in Finance (3,0,3)** Statistical models, tools, and techniques used in financial analysis and forecasting employing various financial and statistical software packages; case studies approach used extensively. PREREQ: FIN 305, FIN 315, and certified major in any business program.

**FIN 435 Case Studies in Corporate Finance (3,0,3)** Analysis of finance problems through use of case studies; oral and written presentations of case solutions. PREREQ: FIN 305, FIN 315, and certified major in any business program.

**FIN 445 Retirement Planning and Employee Benefits (3,0,3)** Concepts of retirement planning and employee benefits and the application of these concepts to overall financial planning for individual and businesses. PREREQ: FIN 320 and certified major in any business program.

**FIN 499 Independent Study: Finance (3,0,3)** Student investigation of a topic or completion of a project. Topics, meeting times, and outcomes arranged with instructor. PREREQ: FIN 305, FIN 315, certified major in any business program, and consent of instructor.

## French

### FRE

**FRE 101 Elementary French I (3,1,4)** Basic principles; development of skills in reading, writing, pronunciation, and conversation. *A general education course (humanities).*

**FRE 102 Elementary French II (3,1,4)** Continuation of FRE 101. *A general education course (humanities).* PREREQ: FRE 101 or equivalent.

**FRE 180 Individual Programmed Instruction in French (1,0,1)** Laboratory exercises for students desiring additional work in grammar, pronunciation, and vocabulary. May be repeated once for credit. PREREQ: FRE 101 or equivalent and consent of instructor.

**FRE 201 Intermediate French I (3,0,3)** Review and extension of basic language skills learned in FRE 101 and FRE 102; reading and discussion of cultural, linguistic, and literary subjects. *A general education course (humanities).* PREREQ: FRE 102 or equivalent.

**FRE 202 Intermediate French II (3,0,3)** Continuation of grammar review and enhancement of language skills begun in FRE 201; consideration of cultural and literary subjects. *A general education course (humanities).* PREREQ: FRE 201 or equivalent.

**FRE 250 Business French (3,0,3)** 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 Francophonic countries; business correspondence; Franco-American relations. PREREQ: FRE 202.

**FRE 280 Individual Programmed Instruction in French (1,0,1)** Laboratory exercises for students desiring additional work in grammar, pronunciation, and vocabulary. May be repeated once for credit. PREREQ: FRE 201 or equivalent and consent of instructor.

**FRE 304 French Composition and Conversation** (3,0,3) Advanced practice in writing French compositions and in oral conversation skills. PREREQ: FRE 202 or equivalent.

**FRE 310 French Culture and Society Today** (3,0,3) 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. PREREQ: FRE 202 or equivalent or consent of instructor.

**FRE 311 French Cultural History** (3,0,3) Eras, institutions, and issues in the history of France; readings primarily in French. PREREQ: FRE 202 or equivalent.

**FRE 320 Survey of French Literature** (3,0,3) Overview of major authors and movements from Old French to the 20th century. *A general education course (literature or humanities)*. PREREQ: FRE 202 or equivalent and 3 semester hours of literature.

**FRE 322 French Drama** (3,0,3) 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. PREREQ: FRE 202 or equivalent.

**FRE 323 French Prose Fiction** (3,0,3) 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. PREREQ: FRE 202 or equivalent.

**FRE 350 Methods of Teaching French** (3,0,3) Theoretical and practical considerations of teaching French in secondary schools. Required of all students seeking teaching certification in French. PREREQ: 6 semester hours of French at the 300 level or above.

**FRE 480 Topics in French Culture** (3,0,3) Topics in culture and language of French speaking countries. May be repeated for credit as topics vary. PREREQ: 6 semester hours of French at the 300 level or above or consent of instructor.

**FRE 481 Topics in French Literature** (3,0,3) Topics in literature, literary history, and literary theory. May be repeated for credit when topics vary. PREREQ: 6 semester hours of French at the 300 level or above or consent of instructor.

**FRE 499 Independent Study: French** (1-3,0,1-3) Readings in language and literature; readings in scientific literature. PREREQ: consent of instructor.

**FRE 520 Readings in French** (3,0,3) Various literary, linguistic, cultural, and pedagogical topics. May be repeated for credit when topics vary. PREREQ: 300-level French course.

## Geography GEO

**GEO 100 Elements of Geography** (3,0,3) The role of geography in understanding one's environment; description and analysis of spatial patterns of cultural, urban, economic, social and political phenomena. *A general education course (social sciences)*.

**GEO 101 World Regional Geography** (3,0,3) The world's regions; settlements, resource use, culture groups, and political patterns. *A general education course (social sciences)*.

**GEO 102 Geography of the World's "Developed" Regions** (3,0,3) Anglo-American, Europe, the former Soviet Union, Japan, Australia, and New Zealand. *A general education course (social sciences)*.

**GEO 103 Geography of the Third World** (3,0,3) "Under-developed" countries; culture areas and economic regions in Africa, Latin America, and Asia. *A general education course (social sciences)*.

**GEO 107 Diversity Mapped** (3,0,3) Regional and local patterns of race/ethnicity and gender of the U.S.; social, economic, and political factors that underlie these patterns; basic skills in reading and analyzing thematic maps. *A general education course (social sciences)*.

**GEO 108 Introduction to Physical Geography** (3,0,3) Physical phenomena of the environment; patterns of energy and moisture endowments at the earth atmo-

sphere interface described, analyzed spatially, and related to climatic and land form distributions on earth.

**GEO 301 Urban Geography** (3,0,3) 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** (3,0,3) Impact of various cultures on landscape; distribution of culture traits; development of culture areas.

**GEO 303 Economic Geography** (3,0,3) Spatial distribution of primary, secondary, tertiary, quaternary, and quinary economic activities; theoretical approaches stressed.

**GEO 306 Environmental Resource Management** (3,0,3) Spatial issues of resources management; water and air pollution, solid wastes, energy, land use planning, wilderness preservation, and population pressures; interaction of ecosystems.

**GEO 307 Perception of the Environment** (3,0,3) How people perceive space and the features of their physical environment; mental maps, the perception of natural hazards, and space motion patterns.

**GEO 308 Climatology** (3,0,3) Physical basis of climate and weather; distribution of climatic types.

**GEO 309 Historical Geography of the United States** (3,0,3) 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** (3,0,3) Spatial distribution of world population; regional variations of growth rates, standards of living, urban/rural densities, migration patterns, and environmental impact of populations, especially African, Native American, and European.

**GEO 314 Maps and Map Interpretation** (3,0,3) Maps as land form, economic, and cultural data sources; map reading and interpretation skills.

**GEO 315 Cartography** (3,0,3) Cartographic drawings, map symbolism, and map design; various map projections are studied with regard to possible uses.

**GEO 316 Computer Cartography** (3,0,3) Introduction to use of computers in geography; thematic mapping; graphic display of geographic information; employment of current cartographic software packages; application of computer mapping to geographic problems.

**GEO 318 Geographic Information Systems** (3,0,3) Introduction to the theories, principles, construction methods, and applications of geographic information systems; employment of a vector based GIS software package to manipulate spatial data and associated geo-referenced databases. PREREQ: 3 semester hours of geography or consent of instructor.

**GEO 330 Geography of Religion** (3,0,3) 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 340 Sustainable Food Systems** (3,0,3) 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 360 Historical Urban Geography** (3,0,3) Evolving form and structure of cities and city systems in a wide variety of historical and cultural contexts.

**GEO 394 Topics: Advanced Map Studies** (3,0,3) Advanced, individualized study in map reading and interpretation skills, cartographic drawing, computer cartography, or geographic information systems. May be repeated as a different topic. PREREQ: GEO 314 or GEO 315, GEO 316 or GEO 318 or consent of instructor.

**GEO 402 Geography of Europe** (3,0,3) 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** (3,0,3) Physical, cultural, economic, and political patterns of Africa, primarily south of the Sahara.

**GEO 406 Geography of Latin America** (3,0,3) Middle and South America's spatial characteristics, physical setting, social characteristics and economic structure.

**GEO 407 Local Community: A Geographic Analysis** (3,0,3) Geography of the urban community; basic ideas of regional planning. PREREQ: GEO 100.

**GEO 409 Geography of North America** (3,0,3) The continent's areal differences in physiography, climate, culture, and economic systems; synthesis of various spatial characteristics to form distinct regions. PREREQ: 3 semester hours of geography or consent of instructor.

**GEO 410 Geography of Asia** (3,0,3) 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. PREREQ: 3 semester hours of geography or consent of instructor.

**GEO 492 Directed Research: Geography** (3,0,3) Independent work on research project agreed upon by student and instructor. PREREQ: 21 semester hours of geography and consent of instructor.

**GEO 496 Internship: Geography** (3-6 sem. hrs.) 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. PREREQ: junior standing; 3.00 GPA or above in previous geography courses.

**GEO 499 Directed Readings: Geography** (3,0,3) Individually supervised readings on a selected area of geography. PREREQ: 21 semester hours of geography and consent of instructor.

**GEO 502 Geography of Kentucky** (3,0,3) Cultural, physical, economic, and population characteristics of Kentucky; Kentucky's regional and national importance.

**GEO 507 The Local Community: A Geographic Analysis** (3,0,3) Geography of Northern Kentucky and Greater Cincinnati; social and economic characteristics of the urban community; regional planning process. PREREQ: GEO 100.

**GEO 520 Environmental Resources for Teachers** (3,0,3) Environmental problem areas such as energy use, population growth, tropical deforestation, toxic wastes; management of environmental problems; teaching methodologies. PREREQ: 3 semester hours of geography or consent of instructor.

**GEO 594 Topics: Geography** (3,0,1-3) 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. PREREQ: 3 semester hours of geography or consent of instructor.

**GEO 594 Seminar: Geography** (3,0,3) Selected topics in geography. Subfields will be chosen in keeping with the interest of the instructor in charge and will be listed in Schedule of Classes. May be repeated as topics change.

## German GER

**GER 101 Elementary German I** (3,1,4) Fundamentals; development of skills in grammar, pronunciation, conversation, and reading. *A general education course (humanities)*.

**GER 102 Elementary German II** (3,1,4) Continuation of GER 101. *A general education course (humanities)*. PREREQ: GER 101 or equivalent.

**GER 180 Individual Programmed Instruction in German** (1,0,1) Laboratory exercises for students desiring additional work in grammar, pronunciation, and vocabulary. May be repeated once for credit. PREREQ: GER 101 or equivalent and consent of instructor.

**GER 201 Intermediate German I** (3,0,3) Review and extension of basic language skills learned in GER 101 and GER 102; reading and discussion of cultural, linguistic, and literary subjects. *A general education course (humanities)*. PREREQ: GER 102 or equivalent.

**GER 202 Intermediate German II** (3,0,3) Continuation of grammar review and enhancement of language skills begun in GER 201; consideration of cultural and literary subjects as well. *A general education course (humanities)*. PREREQ: GER 201 or equivalent.

**GER 250 Business German** (3,0,3) 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. PREREQ: GER 202 or equivalent.

**GER 280 Individual Programmed Instruction in German** (1,0,1) Laboratory exercises for students desiring additional work in grammar, pronunciation, and vocabulary. May be repeated once for credit. PREREQ: GER 201 or equivalent and consent of instructor.

**GER 304 German Composition and Conversation** (3,0,3) Advanced practice in writing German compositions and in oral conversation skills. PREREQ: GER 202 or equivalent.

**GER 310 Contemporary German Life** (3,0,3) 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. PREREQ: GER 202 or consent of instructor.

**GER 311 German Cultural History** (3,0,3) Eras, institutions, and issues in the history of Germany; readings primarily in German. PREREQ: GER 202 or equivalent.

**GER 313 Practice in Reading** (1,0,1) Reading from journals or materials in the student's own discipline or field of interest. PREREQ: GER 202 or equivalent.

**GER 320 Survey of German Literature** (3,0,3) Overview of major authors and movements from the Middle Ages to the 20th century. *A general education course (literature or humanities)*. PREREQ: GER 202 or equivalent and 3 semester hours of literature.

**GER 322 German Drama** (3,0,3) 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. PREREQ: GER 202 or equivalent.

**GER 323 German Prose Fiction** (3,0,3) Focus on novel, novella, or short story. May be repeated for credit as topics vary. PREREQ: GER 202 or equivalent.

**GER 350 Methods of Teaching German** (3,0,3) Theoretical and practical considerations of teaching German in secondary schools. Required of all students seeking teaching certification in German. PREREQ: 6 semester hours of German at the 300-level or above.

**GER 480 Topics in German Culture** (3,0,3) Topics in culture and language of German-speaking countries. May be repeated for credit as topics vary. PREREQ: 6 semester hours of German at the 300-level or above or consent of instructor.

**GER 481 Topics in German Literature** (3,0,3) Topics in literature, literary history, and literary theory. May be repeated for credit when topics vary. PREREQ: 6 semester hours of German at the 300-level or above or consent of instructor.

**GER 499 Independent Study: German** (3-1,0,1-3) Readings in language and literature; readings of scientific literature. PREREQ: consent of instructor.

**GER 520 Readings in German** (3,0,3) Various literary, linguistic, cultural, and pedagogical topics. May be repeated for credit when topics vary. PREREQ: 300-level German course.

## Geology GLY

**GLY 105 The Earth Explored** (3,0,3) Development of geologic thought; volcanoes, plate tectonics, fossils, sculpturing of the earth's surface by wind, water,

etc. Telecourse based on fourteen 30-minute programs on geology. Supplementary print material used. Not applicable to major or minor in geology. *A general education course (natural sciences).*

**GLY 110 The Face of the Earth with Laboratory** (3,2,4) Occurrence, formation, accumulation, and availability of minerals and rocks as earth resources; geological agents and processes that modify the earth's surface; study of local rock types to explain their origin. Field trips. *A general education course (natural sciences).*

**GLY 115 Geology of the Human Environment with Laboratory** (3,2,4) The environmental impact of geological processes such as volcanic and seismic activity; geologic hazards and human activity; geologic time and the placement of the continents; geology of the greater Cincinnati and northern Kentucky area and its influence on the regional settlement and history of development. Field trips. *A general education course (natural sciences).*

**GLY 120 This Dangerous Earth** (3,0,3) 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. *A general education course (natural science).*

**GLY 220 History of the Earth** (3,0,3) 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. *A general education course (natural science).*

**GLY 230 Geology of National Parks** (3,0,3) A study of the principals of physical geology using national parks as examples to illustrate the concepts presented. This will include the formation and occurrence of rocks and minerals, the internal processes that have acted to form underlying rock structures and the surficial processes that have acted to form current landforms. *A general education course (natural science).*

**GLY 240 Geology of Natural Resources** (3,0,3) An introduction to the geologic and societal factors that govern the distribution, recovery, and cost of our natural resources such as metallic minerals, industrial materials, fossil fuels, and nuclear energy. Topics include the geologic processes responsible for their formation and occurrence, economic factors that control their development, and the environmental impacts of their recovery and use. Natural resources of the Commonwealth of Kentucky will be studied as examples of the whole of these. *A general education course (natural science).*

**GLY 294 Topics: Geology** (1-3 sem. hrs.) Special topics in geology. Repeatable for a maximum of 12 semester hours. PREREQ: consent of instructor and consent of department chair.

**GLY 302 Historical Geology with Laboratory** (3,2,4) The rock and fossil record through geologic time, with concentration on North America; local rocks and fossils. PREREQ: GLY 110 and GLY 115.

**GLY 303 Mineralogy with Laboratory** (2,4,4) Common rock and ore forming minerals; crystal notation, symmetry classes, crystal chemistry, and physical properties. PREREQ or COREQ: CHE 120.

**GLY 305 Optical Mineralogy with Laboratory** (2,2,3) Mineral optics, microscopic petrography. PREREQ: GLY 303 or consent of instructor.

**GLY 315 Structural Geology with Laboratory** (3,2,4) Primary and secondary structures of the earth's crust. PREREQ: GLY 110 and GLY 115. PREREQ or COREQ: PHY 211.

**GLY 325 Geology of the Planets** (3,0,3) Geological features and history of inner planets. PREREQ: GLY 110 and GLY 115 or AST 110 and AST 115.

**GLY 330 Geomorphology** (3,0,3) Description and interpretation of land forms. PREREQ: GLY 110 and GLY 115.

**GLY 340 Introduction to Environmental Geoscience** (2,1,3) Human interaction with the earth's geological aspects; natural hazards, water resources, waste disposal, energy, mineral resources, and land use and planning. Laboratory component included. PREREQ: GLY 110.

**GLY 341 Soil Science** (3,0,3) 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. PREREQ: GLY 110 and GLY 115.

**GLY 392 Directed Research: Geology** (1-3 sem. hrs.) 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. PREREQ: junior standing or consent of instructor.

**GLY 394 Seminar: Geology** (1,0,1) Repeatable to a maximum of 4 semester hours. PREREQ: GLY 110 and GLY 115 and a 300 level GLY course.

**GLY 397 Special Projects: Geology** (1-3 sem. hrs.) Completion of an independent project in geology. Repeatable for a maximum of 6 semester hours. PREREQ: junior standing or consent of instructor.

**GLY 399 Readings: Geology** (1-3 sem. hrs.) For students able to do independent work. Repeatable to a maximum of 6 semester hours. PREREQ: 20 semester hours in geology and consent of instructor.

**GLY 402 Invertebrate Paleontology with Laboratory** (3,2,4) Major phyla in the fossil record; paleobiological, systematic, and evolutionary aspects; collection and classification of local fossils. Same as BIO 405. PREREQ: GLY 302 or consent of instructor.

**GLY 405 Petrology with Laboratory** (2,4,4) Origin and development of rock systems; hand specimen and microscope petrography. PREREQ: GLY 303 or consent of instructor.

**GLY 416 (1,6,3)** 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. PREREQ: 12 hours of geology courses or consent of instructor.

**GLY 420 Stratigraphy and Sedimentation with Laboratory** (3,2,4) Physical and biological bases of stratigraphy; processes of formation and environments of deposition of sedimentary rocks. PREREQ: GLY 302.

**GLY 450 Hydrogeology with Laboratory** (2,4,4) Overview of groundwater's physical and chemical properties and their corresponding principles as they pertain to geologic environments. PREREQ: GLY 110; MAT 120 or MAT 122.

**GLY 455 Groundwater Resources and Management with lab** (2,4,4) Geologic and hydrologic factors that control the management of groundwater resources; emphasis placed on groundwater management, groundwater quality and groundwater remediation. PREREQ: GLY 450.

**GLY 492 Directed Research: Geology** (2-6 sem. hrs.) Independent work in field, laboratory, and library on research topic chosen prior to registration. Repeatable to a maximum of 6 semester hours but total semester hours in GLY 392 plus 492 may not exceed 6. PREREQ: 24 semester hours in geology and consent of instructor.

**GLY 496 Externship: Geology** (1-3 semester hours) Experimental learning at institutions, universities, or businesses specializing in geologic studies. Course may be repeated for a new externship project; up to 4 semester hours may be earned in this course. For students majoring or minoring in geology or environmental science. Fall, spring, summer. PREREQ: GLY 110, 115 and consent of advisor before registration.

## Health Education

### HEA

**HEA 125 Introduction to Health Education** (3,0,3) Health education as a profession and for program implementation in the schools, community, and patient education; philosophies and beliefs regarding health education.

**HEA 135 Safety and First Aid** (3,0,3) First aid measures for injuries, emergencies, and sudden illness; skill training in all procedures; general safety education; accident causes and remedial action. American Red Cross certification in basic first aid and CPR for students passing the examinations.

**HEA 160 Personal Health** (3,0,3) Holistic health; development of a healthy and aging personality, emotional health, social health, consumer health, and environmental health using a variety of methods including analysis and synthesis of research; application of these data in the decision making process critical to health lifestyle choices.

**HEA 170 Community Health** (3,1,3) Understanding components of community health; organization, physical diseases, psychosocial problems, and environmental and special aspects. Fall

**HEA 250 Health Education for Elementary Teachers** (2,0,2) Content and skills for developing, implementing, and evaluating health education in the P-5 classroom. PREREQ: admission to P-5 program or consent of instructor.

**HEA 320 Drug and Alcohol Education** (3,0,3) Effects of drug use and abuse on the individual and society. Personal, school and community approaches toward establishing intelligent use of drugs. PREREQ: junior standing.

**HEA 350 Sexuality Education** (3,0,3) 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. PREREQ: junior standing.

**HEA 489 Practicum: Health Education** (01,1) Supervised practice teaching experience in elementary, middle, and high school setting. Integrated with methods course. COREQ: HEA 525.

**HEA 525 Methods and Materials in Health Education** (3,0,3) Principles, methods, and techniques for developing, implementing, and evaluating health education in p-12 and other appropriate settings; theoretical foundations, teaching methodology and strategies, curriculum designs, and resource materials. PREREQ (undergraduates): admission to teacher education and 9 semester hours in health education or consent of instructor.

**HEA 599 Special Topics in Health Education** (1-3 sem. hrs.) Individual or group study of a topic of current interest in health education. Topic selected by student with approval of instructor.

## History HIS

**HIS 100 History of Europe to 1713** (3,0,3) Survey of Europe including Greco Roman civilization, the Middle Ages, the Renaissance, and the emergence of the modern era. *A general education course (history or humanities).*

**HIS 101 History of Europe, 1713 to the Present** (3,0,3) Survey of Europe from the Ancient Regime to the present; impact of modern political revolution, the industrial revolution, and social and cultural alterations that have shaped contemporary society. *A general education course (history or humanities).*

**HIS 102 History of the United States through 1877** (3,0,3) 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. *A general education course (history or humanities).*

**HIS 103 History of the United States since 1877** (3,0,3) Continuation of HIS 102. *A general education course (history or humanities).*

**HIS 106 History of African Americans to 1877** (3,0,3) 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. *A general education course (history or humanities).*

**HIS 107 History of African Americans since 1877** (3,0,3) 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. *A general education course (history or humanities).*

**HIS 108 World History to 1500** (3,0,3) Political, social, economic and cultural development of major world societies to the expansion of the western world. *A general education course (history or humanities).*

**HIS 109 World History since 1500** (3,0,3) Political, social, economic and cultural development of major world societies in the modern era. *A general education course (history or humanities).*

**HIS 194 Seminar: Honors** (3,0,3) 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. *A general education course (history or humanities).* PREREQ: a composite score of 24 on current ACT or equivalent; or HNR GPA of 3.25 or higher.

**HIS 300 The Ancient Near East and Greece to the Macedonian Conquest** (3,0,3) 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** (3,0,3) Conquests of Alexander the Great; main features of the Hellenistic world and the Roman Empire.

**HIS 303 Europe in the Middle Ages** (3,0,3) Developments from the 4th through the 15th centuries.

**HIS 304 Renaissance Europe** (3,0,3) Developments from Petrarch to the Treaty of Westphalia; significant cultural and religious trends.

**HIS 305 Reformation Europe** (3,0,3) German, English, Swiss, and French reformations; Counter Reformation; religion, politics, and social and intellectual change, 1494-1648.

**HIS 308 Modern Europe, 1870-1920** (3,0,3) 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** (3,0,3) Economic and political instability in the inter war years; World War II; European renaissance since 1945.

**HIS 310 Colonial America to 1763** (3,0,3) Origins and development of the English colonies.

**HIS 311 The War for Independence and the Constitution, 1763-1789** (3,0,3) 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** (3,0,3) Successful consolidation of the U.S. as a modern nation-state.

**HIS 313 Expansion and Conflict, 1828-1861** (3,0,3) Territorial, sectional, and cultural growth; nature and expansion of slavery and conflicts such as debate over the extension of slavery that culminated in the U.S. Civil War.

**HIS 314 Rise of the Industrial United States, 1865-1900** (3,0,3) Effects of increased industrialization and urbanization on the U.S. economy, government, and post Civil War society.

**HIS 315 Modern United States History, 1900-1939** (3,0,3) Major changes that marked the U.S. during the first 40 years of the 20th century.

**HIS 316 Modern United States History Since 1939** (3,0,3) Major political and social changes since 1939.

**HIS 317 History of the New South** (3,0,3) The southern U.S. since 1865; cultural, political, economic, and literary trends; roles of blacks from Reconstruction to present, including the rise of Jim Crowism, legal segregation in the 20th century, desegregation, and civil rights movements in 1950s, 60s, and 70s.

**HIS 318 Current Events in a Historical Perspective** (3,0,3) Historical background of significant recent events in U.S. history.

**HIS 319 Conflicting Historical Viewpoints** (3,0,3) Conflicting interpretations of some major historical events and trends of the contemporary world.

**HIS 320 The Colonial Experience in the Non-western World** (3,0,3) Impact of western colonialism on traditional societies in "Third World."

- HIS 321 Modernization in the Non-western World** (3,0,3) The “Third World” nations; problems resulting from conflicting dynamics of independence and modernization.
- HIS 322 History of Naval Warfare** (3,0,3) Development of fighting ships in western culture; interaction between social and technological factors and warfare on the high seas.
- HIS 323 United States Military History** (3,0,3) U.S. military history from colonial times to the present; operations; interaction between war and society.
- HIS 325 Early Latin American History** (3,0,3) 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** (3,0,3) Political, economic, social, and cultural development of Latin America from independence through the 19th and 20th centuries; analysis of Iberian and non Iberian tradition.
- HIS 327 Anglo-American Legal History** (3,0,3) Origin and development of the Common Law from Norman beginnings to the present; emphasis on U.S.
- HIS 329 History of the Middle East** (3,0,3) Evolution of southwestern Asia since the rise of Islam; 19th and 20th century origins of contemporary problems.
- HIS 330 History of China** (3,0,3) Traditional and modern China; cultural, political, religious and philosophical survey.
- HIS 331 History of Japan** (3,0,3) Traditional and modern Japan; cultural, political, religious and philosophical survey.
- HIS 332 World Civilizations to 1500** (3,0,3) Economic, social, political, and cultural aspects of major western and non-western civilizations prior to the era of western world dominance. PREREQ: HIS 100 or HIS 102 and 103.
- HIS 333 World Civilizations Since 1500** (3,0,3) The major western and non-western civilizations’ economic, social, political and cultural evolution in the modern era.
- HIS 335 History of Ancient Africa** (3,0,3) 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** (3,0,3) 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 353 English History to 1485** (3,0,3) From the Roman invasion to the end of the Middle Ages.
- HIS 354 English History from 1485 to 1760** (3,0,3) From the founding of the Tudor dynasty to the accession of George III.
- HIS 355 English History from 1760 to Present** (3,0,3) From the accession of George III to the present.
- HIS 362 History of Germany to 1870** (3,0,3) From the Holy Roman Empire to emergence of modern nationalism and the Industrial Revolution.
- HIS 363 History of Germany Since 1870** (3,0,3) Cultural, political, and social developments since founding of the German Empire.
- HIS 365 European Military History: Ancient World to the Renaissance** (3,0,3) Interaction between warfare and European society from the ancient world to the Renaissance.
- HIS 366 European Military History: Renaissance to the Modern World** (3,0,3) Interaction between warfare and European society from the Renaissance until the end of World War II.
- HIS 377 Modern Russia Since 1855** (3,0,3) Modernization under the last Romanov emperors: bolshevik dictatorship; modern communist state; post-communist developments.
- HIS 380 History and Film** (3,0,3) Film as a reflection and a shaper of history. May be repeated for credit when topics vary.
- HIS 382 History of Kentucky** (3,0,3) History of Kentucky from 1750 to the present; political, economic, and social issues; how developments in the commonwealth related to trends in U.S. history.
- HIS 385 Art and Method of History** (3,0,3) Survey of major philosophies of history and of the meaning and nature of history; introduction to methods of historical research and writing. Required of all students majoring in history and of all students in the social studies area of concentration; should be taken if possible before other upper division work in history.
- HIS 409 The French Revolution** (3,0,3) The revolution through the Napoleonic era; its international repercussions and influences on revolutionary movements and political philosophies of modern times.
- HIS 413 History of Nazi Germany** (3,0,3) Origins, dimensions, and downfall of Hitler's fascist state.
- HIS 414 The Holocaust** (3,0,3) An exploration of the genocidal European Holocaust during World War II. Includes study of the origin, growth and development of European anti-Semitism and pseudoscientific biological racism as practiced in National Socialist (Nazi) Germany.
- HIS 416 Plains Indians** (3,0,3) A history of the Sioux, Cheyenne, Comanche, Nez Perce, and Apache, concentrating on the post Civil War era and especially on the fate of these peoples at the hands of white civilization.
- HIS 417 Civil War and Reconstruction, 1860-1877** (3,0,3) 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 the United States to 1865** (3,0,3) Economy of the young nation and its relationship to social classes and changes, including gender issues.
- HIS 420 Social and Economic History of the United States Since 1865** (3,0,3) The Industrial Revolution and its social consequences; immigration and mobility; gender issues; other backgrounds to contemporary society.
- HIS 421 Cultural and Intellectual History of the United States to 1875** (3,0,3) U.S. life and thought as reflected in Puritanism, in the Enlightenment, in Jacksonian nationalism, and in social and political reform movements in the mid-19th century.
- HIS 422 Cultural and Intellectual History of the United States Since 1875** (3,0,3) Exploration of the U.S. mind and character in the last 100 years; influences of Darwinian thought, reformism, urbanization, cultural nationalism, and contemporary social tensions.
- HIS 423 Diplomacy and Foreign Policy of the United States** (3,0,3) Principles, historical evolution, and particular nuances of U.S. foreign policy.
- HIS 424 History of American Diplomacy to 1900** (3,0,3) This is an advanced level survey of the personalities, events, and policies affecting American foreign policies from colonial times to 1900. Students will be exposed to readings and research utilizing methodologies in the subject area of American Diplomacy.
- HIS 425 History of American Diplomacy Since 1900** (3,0,3) This is an advanced level survey of the personalities, events, and policies affecting American foreign policies from 1900 to the present. Students will be exposed to readings and research utilizing historical methodologies in the subject area of American Diplomacy.
- HIS 426 Historical Geography of the United States** (3,0,3) Spread of settlement, growth of urbanization, and development of economic and culture regions; past and present distribution of religious groups, European ethnic groups, and African-Americans. Same as GEO 309.

- HIS 427 Urban History of the United States (3,0,3)** Origins and growth of cities; impact of cities upon U.S. development; contemporary urban problems.
- HIS 431 Historical Themes in African American History (3,0,3)** 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. PREREQ: HIS 102 and HIS 103 or HIS 106 and HIS 107. *A general education course (race/gender perspective).*
- HIS 435 History of Race Relations in the Americas, 1492-c.1800 (3,0,3)** 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. PREREQ: 3 hours of history or consent of instructor(s).
- HIS 436 History of Race Relations in the Americas, c. 1800 to the Present (3,0,3)** 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. PREREQ: 3 hours of history or consent of instructor(s).
- HIS 438 African-American Women's History and Culture (3,0,3)** This discussion-oriented course is a history of African-American women that begins by examining African women and their cultures prior to European contact and ends with a look at women in the civil Rights Movement. This course satisfies Afro-American Studies history option.
- HIS 442 History through Biography (3,0,3)** 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 (3,0,3)** 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. PREREQ: HIS 102. *A general education course (race/gender perspective).*
- HIS 445 History of Women in the United States since 1900 (3,0,3)** 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. PREREQ: HIS 103. *A general education course (race/gender perspective).*
- HIS 454 Early American Frontier (3, 0, 3)** 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 455 Later American Frontier (3,0,3)** Westward movement and its effect on national character since 1840; Manifest Destiny, Great Plains, Mormons, mining boom, cattle industry, Civil War, relations with Indians, conservation, end of the frontier.
- HIS 465 Nature and Development in Latin American History (3,0,3)** 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, secollogical degradation, economic/social development and modernization. PREREQ: 3 hours of history or consent of instructor.
- HIS 473 Battles and Behavior I: 1066-1836 (3,0,3)** Representative battles from Hastings to the Alamo; reveals the interaction between western civilization and its military conflicts.
- HIS 474 Battles and Behavior II: 1854-1984 (3,0,3)** Representative battles from the Crimea to Star Wars; reveals the interaction between western civilization and its military conflicts.
- HIS 475 The First World War (3,0,3)** The military record and the war's impact upon international socioeconomic, political, and cultural change.
- HIS 476 The Second World War (3,0,3)** Origins and prosecution of the war; military and diplomatic aspects from an international perspective.
- HIS 496 Internship: Public History (3 sem. hrs.)** Supervised work experience (8 hours per week) in a community history agency or institution under a professional staff. May be repeated once for credit. PREREQ: junior or senior standing and consent of instructor.
- HIS 499 Seminars (1-3,0,1-3 each)** Selected topics in a general area of history.
- HIS 513 The French Revolution (3,0,3)** Political, economic, and cultural background of the French Revolution, emphasizing the changing character of the Revolution as it moved in phases from moderate and middle class to radical and violent.
- HIS 533 Expansion and Conflict (3,0,3)** Conflicts that developed with the physical growth of the U.S. during the period 1828 to 1861 involving Mexico, slavery, and Indians.
- HIS 535 Civil War and Reconstruction (3,0,3)** 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 (3,0,3)** 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 (3,0,3)** Social and political developments from 1939 to contemporary society including the civil rights movement.
- HIS 541 History of Kentucky (3,0,3)** History of Kentucky from 1750 to the present; political, economic, and social issues; how developments in the Commonwealth related to trends in U.S. history.
- HIS 543 History of the American Frontier (3,0,3)** the westward movement and its effect on national character; expansionism; Indian and land policies; cattle and mining frontiers.
- HIS 546 History of the American Family (3,0,3)** 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 547 Christian Women's Bodies: A Historical Perspective (3,0,3)** This course examines the historical development of Christian thought and representation of women, the body, and nature through a study of church doctrine and scripture, women's writing, feminist scholarship and theology, and artistic representations of women.
- HIS 548 Diplomacy and Foreign Policy of the United States (3,0,3)** 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 552 History of the Old South (3,0,3)** 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 (3,0,3)** 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 556 African Americans in U.S. Culture, Education, and Politics (3,0,3)** African Americans and their interactions within and their contributions to cultural, educational, and political development of the U.S.
- HIS 557 History of the Indians of the United States (3,0,3)** Native cultural and historical experiences from the 15th to 20th century.
- HIS 561 Modernization in the Non-Western World (3,0,3)** Rise of self-assertion of Third World nations; political, economic, social, and cultural problems of national development.



**HIS 565 The Vietnam War** (3,0,3) 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 589 Anglo-American Legal History** (3,0,3) Origin and development of the Common Law from Norman beginnings to the present; emphasis on the U.S.

**HIS 592 Directed Research in History** (0,0,3) Individual research in an area of history under supervision of faculty member. May be repeated once for credit. PREREQ: consent of instructor.

**HIS 594 Selected Topics: History** (3,0,3) Lecture class in topic not included in regular history curriculum. May be repeated for credit when topics vary.

**HIS 596 Internship: History** (0,0,3) 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. PREREQ: consent of instructor.

**HIS 599 Independent Study: History** (0,0,1-3) Individualized study of a special topic under supervision of faculty member. May be repeated for credit when topics vary. PREREQ: consent of instructor.

### Honors

#### HNR

**HNR 101 Honors Seminar: The Role of Intellect in Society** (3,0,3) Past and present role of intellect in society; general introduction to the goals of the intellect and the tools needed to attain them; nature of higher learning; function of the university; ends and means of higher education.

**HNR 301 Honors Seminar: Humanity and Nature** (3,0,3) Readings and discussion on significant issues and ideas in the general area of humanity and nature.

**HNR 302 Honors Seminar: Humanity and Society** (3,0,3) Readings and discussion on significant issues and ideas in the general area of humanity and society.

**HNR 303 Honors Seminar: Humanity and the Imagination** (3,0,3) Readings and discussion on significant issues and ideas in the general area of humanity and the imagination.

**HNR 304 Honors Seminar: Humanity and the Machine** (3,0,3) Readings and discussion on significant issues and ideas in the general area of humanity and the machine.

**HNR 306 Studies in Diversity** (3,0,3) Analysis of society and its multicultural representations in selected areas of study (varies from semester to semester).

**HNR 307 Studies in Film** (3,0,3) Studies in selected topics in film and its relationship to social issues and other arts.

**HNR 308 The World in Transition** (3,0,3) Analysis of contemporary trends in cyberspace, business and other social arenas.

**HNR 309 World Cities/World Cultures** (3,0,3) Exploration and appreciation of selected world-class cities and a variety of cultures; cities and cultures vary from semester to semester; taught in English; may be cross-listed with a foreign-language course.

**HNR 394 Seminar: Special Topics Honors** (3,0,3) Readings and discussion on significant issues not covered in other honors seminars.

**HNR 396 Internship** (3,0,3) Selected opportunities for students to serve as teaching assistants, research assistants or as assistants in designated business or community groups.

**HNR 491 Senior Honors Thesis** (3,0,3) Independent research; oral and written expression. Repeatable for up to 6 hours.

### Human Services/Mental Health

#### HSR

**HSR 100 Orientation to Mental Health/Human Services** (3,0,3) The field of human services; observing human service delivery agencies in operation; activities of workers in meeting client needs; values and attitudes of human service workers; roles and responsibilities of human service workers; concept of the generalist, concepts of human behavior and needs, and strategies and programs for meeting human needs. Formerly HSR 115.

**HSR 102 Practicum in Human Services I** (0,16,4) Practicum experience in a clinical setting introducing students to activities of various agency workers and providing opportunities through supervised interaction with clients to begin developing clinical skills; training in observation, communication, and interaction with clients or patients as preparation for entrance into advanced clinical experience. Formerly HSR 106. PREREQ: consent of instructor. COREQ: HSR 103.

**HSR 103 Practicum Seminar I** (2,0,2) Seminar to accompany HSR 102; discussion of practicum experience and major clinical issues; reinforcing of developing skills. COREQ: HSR102.

**HSR 105 Counseling for Human Service Professions** (3,0,3) 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** (3,0,3) 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 207 Practicum in Human Services II** (0,16,4) Clinical placement in human service agencies to develop skills in observation, interviewing, reports, therapeutic relationships, and case presentation. PREREQ: HSR 102. COREQ: HSR211.

**HSR 211 Practicum Seminar II** (2,16,2) A seminar to accompany HSR 207 during which practicum experience will be discussed, major clinical issues raised and explored, and interpersonal and intra personal skills developed. PREREQ: HSR 102 COREQ: HSR 207.

**HSR 212 Crisis Intervention** (3,0,3) 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; referral.

**HSR 216 Group Theories and Practice** (3,0,3) 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. PREREQ: HSR 105 or consent of instructor.

**HSR 226 Behavior Problems of Children** (3,0,3) 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 250 Introduction to Therapeutic Recreation** (3,0,3) The field of therapeutic recreation; philosophy, history, concepts, trends, and activity adaptation; characteristics of special populations; program design analysis; evaluation of treatment goals and objectives; basic recreational skills and community resources and services available. Formerly HSR 150.

**HSR 300 Contemporary Issues in Mental Health** (3,0,3) Important current social, ethical, and legal issues and trends in mental health/human services; presentations by speaker shaving particular expertise in various issues. PREREQ: HSR 100, junior standing, or consent of instructor.

**HSR 301 Holistic Approach to Mental Health** (3,0,3) Exploration of the holistic perspective as applied to mental health; the mind/body system, transpersonal

dimensions, the emerging view of mind, discovering human potentials, practices for promoting positive mental health.

**HSR 302 Rehabilitation of the Geriatric Patient (3,0,3)** Service stating geriatric patients; impediments blocking continued independent living; use and maintenance of mechanical and prosthetic devices facilitating the rehabilitative process; instruction in making home visits, using effective rehabilitation teaching methods, and activities of daily living. PREREQ: HSR 306 or consent of instructor.

**HSR 304 Field Experience in Mental Health I (2,16,4)** 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. PREREQ: HSR 207. COREQ: HSR 412.

**HSR 305 Assessment and Appraisal in Mental Health (3,0,3)** Use and interpretation of assessment and appraisal instruments and procedures in mental health services, e.g., psychological, educational, functional, and environmental. PREREQ: PSY 100 and junior standing.

**HSR 306 Introduction to Gerontology (3,0,3)** 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 314 Death, Dying, and Grief (3,0,3)** 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. PREREQ: 6 semester hours in behavioral and/or social sciences.

**HSR 321 Mental Health and Aging (3,0,3)** Psychological, biological, and social factors affecting mental and emotional functioning in old age; strategies for assessment of and intervention in behavioral disorders; methods to identify and utilize family, community, medical, and long term care support systems. PREREQ: HSR 306 or consent of instructor.

**HSR 340 Alcoholism: Issues and Intervention (3,0,3)** 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.

**HSR 351 Survey of Therapeutic Recreation Delivery Systems (3,0,3)** Institutions, agencies, and programs providing therapeutic recreation services; health care agency structures and therapeutic recreation designs and programs; functions and effectiveness of therapeutic recreation service delivery. Formerly HSR 252. PREREQ: HSR 250 or consent of instructor.

**HSR 352 Therapeutic Recreation: Techniques and Procedures (3,0,3)** Concepts and skills required to develop and utilize therapeutic recreation activities in a variety of settings; techniques and methods used in adapting activities for the exceptional individual; screening devices used to detect handicaps; activities with corrective and developmental value; organizing and planning activity programs for particular fields of interest (e.g., cerebral palsy, orthopedic handicap, elderly, and convalescent); basic recreational skills appropriate for children, youth, and adults. PREREQ: HSR 250 or consent of instructor.

**HSR 404 Field Experience in Mental Health II (2,16,4)** 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. PREREQ: HSR 304 or consent of instructor. COREQ: HSR 430.

**HSR 410 Psychosocial Forces in Late Life (3,0,3)** Analysis of theory and research on psycho social aspects of aging; age stratification and patterns of interaction among cohorts; influences of family on individual life cycle; implications of retirement demographics after 60; impact of major institutions on older adults. PREREQ: HSR 306 or consent of instructor.

**HSR 412 Leadership Skills for Small Groups (3,0,3)** 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. PREREQ: HSR 216, junior standing, or consent of instructor. COREQ: HSR 304.

**HSR 416 Mental Health Counseling: Principles and Practice (3,0,3)** 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. PREREQ: HSR 105 or PSY 341.

**HSR 430 Human Services Administration (3,0,3)** 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. PREREQ: PAD 300 or consent of instructor. COREQ: HSR 404.

**HSR 450 Alcoholism and the Dysfunctional Family (3,0,3)** Alcoholism and the family system; needs, problems, dynamics; services and resources available; principles and strategies of family therapy; primary prevention. Formerly HSR 350. PREREQ: HSR 340 or consent of instructor.

**HSR 494 Topics: Mental Health (3,0,3)** 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 sem. hrs.)** 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. PREREQ: junior standing and consent of instructor.

**HSR 500 Multicultural Family Work: Principles and Practices (3,0,3)** 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. PREREQ: HSR 105 or EDU 570, or equivalent.

**HSR 502 Positive Guidance Strategies for Early Childhood Practitioners (3,0,3)** Positive strategies for effectively handling many behavioral concerns that arise while working with young children with and without disabilities; observation and supervised participation in child development settings. PREREQ: EDU 300 or PSY 220, or equivalent.

## Industrial and Engineering Technology IET

**IET 112 Technical Graphics (2,2,3)** Fundamentals of technical drawing; standards, terminology, and symbology; use of common drafting instruments; lettering; geometric construction; multi view drawings; pictorials; dimensioning; sections.

**IET 114 Laboratory Equipment and Procedures (2,2,3)** Introduction to laboratory equipment, procedures, and reports used in the electronics curriculum; familiarization with personal computers, application software, and simulation software. PREREQ MAH 099 or equivalent. COREQ: IET 144.

**IET 115 Conference Leadership (3,0,3)** Group discussion techniques and processes.

**IET 116 Introduction to Industrial Materials and Processes (2,2,3)** Fundamentals of materials, processing methods, tools, and equipment used to produce metallic and nonmetallic products; destructive and nondestructive testing.

**IET 117 Introduction to Supervision (3, 0, 3)** Functions of supervision; planning, organizing, directing, staffing, controlling, and delegating.

**IET 119 Fundamentals of Construction (3,0,3)** Construction occupations, preparation, terminology, and procedures; interpretation of working drawings, specifi-

cations, and construction contracts. Recommended for students with minimal knowledge of construction.

**IET 120 Construction Materials (3,0,3)** Properties and characteristics of materials used in modern construction, including concrete, metals, masonry, wood, ceramics, and synthetics.

**IET 121 Construction Processes (2,2,3)** Methods and techniques used to construct commercial and residential structures.

**IET 122 Architectural Design and Drafting (2,2,3)** Techniques and procedures used in designing and drafting working drawings for residential structures.

**IET 144 D.C. Circuit Analysis (2,2,3)** Basic laws and theories, voltages, current power, and resistance; resistive circuits in direct current circuits; analysis and applications. PREREQ: MAH 099 or equivalent.

**IET 145 A. C. Circuit Analysis (2,2,3)** Application of basic electrical circuit analysis to alternating current (AC) systems; capacitors, inductors, transformers, and circuits using these components. PREREQ: IET 144. COREQ: IET 244.

**IET 161 Industrial Electricity and Electronics (2,2,3)** Electrical systems and components including resistors, inductors, capacitors, and semiconductors; generators, motors, and controls.

**IET 180 Foundations of Industrial Education (3,0,3)** Principles, objectives, historical perspective, purposes, and roles of industrial education as related to technological, societal, and educational influences.

**IET 181 Instructional Systems Development (3,0,3)** 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. PREREQ: IET 180.

**IET 200 Energy Management (3,0,3)** Purpose, objectives, and mechanics of the industrial/commerce energy audit process; skills and knowledge necessary to develop and maintain an industrial/commerce energy management/conservation program.

**IET 211 Quality Control (3,0,3)** Control and assurance of quality and reliability; management of quality function in the industrial setting. PREREQ: IET 110.

**IET 212 Computer-aided Drafting and Design (CADD) (2,2,3)** Fundamentals of computer aided drafting; production of technical drawings using CAD software; working drawings; standard machine elements; tolerance dimensioning.

**IET 213 Occupational and Industrial Health and Safety (3,0,3)** Safety standards and techniques in plant operation; techniques and systems to improve working conditions; circumstances leading to a healthful working environment; legislative standards.

**IET 220 Plane Surveying (2,2,3)** Procedures; care and operation of surveying instruments and equipment; generation and interpretation of field data; computation and site layout. PREREQ: MAT 118 or MAT 119.

**IET 221 Construction Specifications and Project Management (3,0,3)** Techniques and procedures in development, writing, assembling, and use of construction specifications and contract documents. PREREQ: IET 120 and IET 122. COREQ: IFS 105, 205 or CSC 150.

**IET 222 Architectural CAD (2,2,3)** Introduction to Architectural CAD AEC software; drawing, dimensioning editing, layering, setting defaults, 3D pictorials, and plotting. Students will generate a complete set of architectural drawings as their project. PREREQ: IET 122.

**IET 230 Electrical and Mechanical Systems Design and Drafting (2,2,3)** Fundamentals of electrical, gas, water, waste disposal, heating, and cooling systems for buildings; procedures and techniques for electrical and mechanical systems design. PREREQ: IET 122 or IET 222.

**IET 244 Electronic Circuits (2,2,3)** Introduction to solid-state devices, diodes, bipolar and field effect transistors; analysis and application of small signal amplifiers. PREREQ: IET 144. COREQ: IET 145.

**IET 260 Industrial Environment Control (3,0,3)** Thermal, air, noise, solid, and water pollution as produced by industries; effects and corrective procedures.

**IET 261 Heat Power (2,2,3)** This course is designed to provide the principles of fluid, mechanical, and electrical transmission of power related to internal combustion and gas turbine engines. The course also covers power generation through steam cycles. PREREQ: PHY 211.

**IET 265 Manufacturing Processes I (2,2,3)** Principles and applications of precision machining, numerical control processes, volume production, and assembly methodology. PREREQ: IET 116.

**IET 280 Instructional Methods of Industrial Education (3,0,3)** Methods and strategies for the implementation or presentation of instructional systems in specialized industrial education programs at all educational levels. PREREQ: IET 181.

**IET 281 Evaluation in Industrial Education (3,0,3)** 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. PREREQ: IET 181.

**IET 285 NOCTI Competency Test (3-6 sem. hrs.)** National Occupational Competency Testing Institute Examination in a specific occupational area. Students must register for examination with an approved NOCTI Testing Center.

**IET 286 NOCTI Competency Test (3-6 sem. hrs.)** National Occupational Competency Testing Institute Examination in a specific occupational area. Students must register for examination with an approved NOCTI Testing Center.

**IET 300 Robotic Systems (2,2,3)** Structure and operational characteristics; principles and theory of robot movement, robot teach/programming, program languages, robot arm, robot controller, work station, power supplies, and servos-controls. PREREQ: IET 161.

**IET 301 Cooperative Education in Technology (3 sem. hrs.)** Supervised, objective based work experience related to a student's technology major. Coordinated by employer, faculty, coop coordinator, and student. Minimum of 20 hours on the job per week. Open to all students majoring in technology; may be repeated up to 9 semester hours. Apply to the Department of Technology's Office of Cooperative Education.

**IET 305 Human Relations in Business and Industry (3,0,3)** Techniques of communication, motivation, and conflict resolution; workplace values and cultural diversity.

**IET 308 Leadership in the Quality Environment (3,0,3)** Role of the team leader in organizations with a total quality culture; developing and maintaining an empowered workforce, effective communication systems, and mission statements; valuing diversity in the team-based organization. PREREQ: IET 305.

**IET 310 Problem Solving in Technology (3,0,3)** 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. PREREQ: junior standing.

**IET 311 Productivity Management and Cost Analysis (3,0,3)** 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. PREREQ: MAT 111 and IET 211.

**IET 312 Descriptive Geometry - CADD Applications (2,2,3)** Points, lines, and planes; primary and secondary auxiliary views; revolutions; intersections of surfaces; development of surface; graphical analysis; CAD application in descriptive geometry. PREREQ: IET 212; MAT 118 or MAT 119.

**IET 313 Technical Illustration (2,2,3)** Pictorial methods of presentation, including rendering techniques and axonometric, oblique, and perspective projections. PREREQ: IET 112 or IET 212.

**IET 314 Industrial Electronics (2,2,3)** Theory, analysis, and application of open and closed loop industrial control systems consisting of both analog and digital

- components; sensing circuits; transducers; electric motors; optoelectronics. PREREQ: IET 244.
- IET 315 Personnel Management (3,0,3)** Hiring and training; assignment of work; employee counseling; promotion; wage and salary administration.
- IET 316 Materials Processing and Fabrication (2,2,3)** Theory and application of surface treatment, casting, fabrication, separating, joining, shaping, and reducing using a variety of industrial materials. PREREQ: IET 116 or IET 120.
- IET 317 Senior Research in Technology (3,0,3)** Preparation and proposal for the senior design capstone. Must be taken within three semesters of graduation. PREREQ: senior standing.
- IET 320 Construction Estimating and Project Management (4,0,3)** Interpretation of construction drawings and specifications; estimating quantities, cost of materials, and labor costs; work methods; job planning; project scheduling and control; field administration; management procedures of contracting. PREREQ: IET 221.
- IET 321 Scheduling and Planning (3,0,3)** The integration of systems required to produce goods and services. Required planning to balance demand and capacity, techniques to improve work flow through the system, scheduling and coordination of projects. PREREQ: IET 311.
- IET 322 Structural Design and Drafting (1,4,3)** Structural design and procedures to conform with current practice and industry recommended specifications and design standards for steel, wood, and reinforced concrete. PREREQ: IET 222; MAT 118 or MAT 119.
- IET 323 Land Planning and Development (2,2,3)** Practices in land planning and subdivision design; subsurface utility systems; environmental considerations. PREREQ: IET 220, IET 221, and IET 222.
- IET 324 Construction Project Coordination (3,0,3)** Subject matter and “simulated hands on” experiences in all phases of current construction project coordination and documentation. PREREQ: IET 320.
- IET 325 Construction Safety (3,0,3)** Construction safety and regulatory agencies; understanding of 29 CFR 1926 standards; elimination of construction site hazards.
- IET 340 Web Development: Basic Concepts and Practices ((3,0,3)** Basic through advanced Web page authoring techniques, and concepts of Web page creating and layout using both HTML and WYSIWYG authoring software.
- IET 341 Integrated Resource Management (3,0,3)** This course utilizes the techniques of Enterprise Management. The course will focus on contrast and integration strategies, JIT techniques, integration, application and implementation. PREREQ: IET 321.
- IET 342 Web Development: Advanced Concepts and Practices (3,0,3)** Design of effective Web sites including page layout, user interface design, graphic design, content flow, and site structure; management of Web site resources including security and Intranet management and design standards and template considerations.
- IET 344 Analog Electronics (2,2,3)** Power amplifiers, frequency response, operational amplifiers, voltage regulators, and active filters. PREREQ: IET 244.
- IET 345 Digital Electronics (2,2,3)** Digital circuits; biters, counters, arithmetic circuits, and memories. PREREQ: IET 244.
- IET 346 Digital Systems for Manufacturing (2,2,3)** Introduction to digital logic, number systems, programmable controllers, microprocessors, and their application in manufacturing. PREREQ: IET 161.
- IET 348 Electronic CAD (2,2,3)** Computer-aided design of electrical and electronic systems; schematic capture techniques; advanced circuit simulation. PREREQ: IET345.
- IET 362 Tool Layout and Design (2,2,3)** Design and selection of mechanical elements such as fasteners, cams, gears, jigs, fixtures, and tools and dies; use of standard handbooks and manuals. PREREQ: IET 212.
- IET 365 Manufacturing Processes II (2,2,3)** Programming of numerical control equipment using languages such as APT Compact, and Conversational; Computer Integrated Manufacturing fundamentals; CNC and DNC applications within automated production processes; operational fundamentals, machine setup, program verification, and program execution. PREREQ: IET 212 and 265.
- IET 366 Instrumentation and Control (2,2,3)** Devices and systems to monitor and control electrical, fluid; or mechanical functions. PREREQ: IET 244.
- IET 367 Microprocessors (2,2,3)** Architecture and instruction sets; programming, interfacing, and designing with microprocessors. PREREQ: IET 345.
- IET 380 Organization and Management of Industrial Education (3,0,3)** Laboratory and equipment planning and maintenance programs, classroom and laboratory management systems; purchasing, storage, dispensing, and inventory control procedures; public relations and COREQ: curricular responsibilities as applied to industrial education programs at all educational levels. PREREQ: IET 181 or consent of instructor.
- IET 382 Exceptional Students in Vocational Programs (3,0,3)** Adapting vocational school programs to accommodate integration of exceptional students in vocational laboratories; identification of characteristics, curricula, and methodological modifications and supportive services and personnel.
- IET 383 Advanced Technical Study (1-3 sem. hrs.)** 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.
- IET 385 NOCTI Competency Test (3-6 sem. hrs.)** National Occupational competency Testing Institute Examination in a specific occupational area. Students must register for examination with an approved NOCTI Testing Center.
- IET 386 Electro-Mechanical Instrumentation and Control (2,2,3)** Introduction to the design of instrumentation and control systems. Study of thermal, mechanical, optical, and digital sensor operations and applications. Introduction to data acquisition systems. Laboratory experimentation involving the Programmable Logic Controls designing different logics to control devices and a selection of sensors to gather and utilize data from the equipment at hand. PREREQ: IET 161.
- IET 395 Total Quality Teamwork (3,0,3)** Team leader’s role in establishing and maintaining integrated work teams; team designs for knowledge work, assessing and managing team performance, process improvement tools, and organizational support systems. PREREQ: IET 117 or consent of instructor.
- IET 399 Independent Study in Industrial Education or Technology (1-3,0,1-3)** For advanced students seeking to study selected problems. PREREQ: consent of adviser.
- IET 404 Signals and Systems (3, 0, 3)** Advanced circuit analysis techniques; time domain and frequency domain solutions; Laplace transforms; z-transforms; Fourier analysis; discrete-time systems. PREREQ: IET 145 and MAT 221 (or MAT 220).
- IET 405 Metrology and Geometric Tolerancing (3,0,3)** Metrology requirements and geometric tolerancing; calibration systems, gage studies, measurement elements, analysis and presentation of measurement data, quality implications. PREREQ: IET 211 and IET 212.
- IET 411 Quality Assurance and Auditing (3,0,3)** Organizing and implementing the quality audit; types of audits; ISO 9000 quality standards; audit planning, execution, testing, reliability, and system appraisal. PREREQ: IET 211.
- IET 412 Advanced CADD (2,2,3)** CADD 3D features; customized and professional CADD techniques; advanced features. PREREQ: IET 212.
- IET 413 Drafting in Specialized Fields (2,2,3)** Modern procedures and techniques; new developments, specialized fields, and processes. PREREQ: IET 122 and IET 212.

**IET 414 Transform Analysis and Servomechanics** (3,0,3) Control systems, Laplace transforms, feedback stability, block diagrams, and servomechanisms; tools for design, stability, and frequency response. PREREQ: IET 314 and IET 404.

**IET 415 Construction Management** (3,0,3) Principles of construction management applied to a construction project; site facilities planning, procurement, shop drawings and submittals, scheduling, coordinating and tracking subcontracts, tracking change orders, and job cost. PREREQ: IET 324.

**IET 417 Senior Design in Technology** (0,6,3) A capstone project design in an area of student's primary program major; demonstration, documentation, and presentation of results. Must be taken within two semesters of graduation. PREREQ: IET 317.

**IET 420 Advanced Plane Surveying** (2,2,3) Cadastral, route, and control surveys; field and office procedures, property surveying and monumentation, route plans, and geodetic surveying. PREREQ: IET 220.

**IET 422 Design in Industry** (2,2,3) Problem solving and creative techniques in industrial product design; development of presentation prototypes and models. PREREQ: IET 212.

**IET 423 Planning and Design of Industrial Facilities** (1,4,3) Planning, estimating, designing, and modeling industrial facilities; management, personnel, production, aesthetics, and the environment. PREREQ: IET 212

**IET 424 Construction Restoration and Renovation** (2,2,3) Procedures and techniques for renovating and restoring residential and commercial structures; identifying classical architecture; guidelines for historic preservation; preparation of documents, contracts, drawings, and specifications for renovation of an historic structure. PREREQ: IET 322 and IET 324.

**IET 425 Computer Applications in Construction** (2,2,3) Application of leading construction management software for word processing, spread sheets, design, specifications, estimating, scheduling, and presentations. A project capstone course. PREREQ: IET 324.

**IET 426 Heavy Construction Techniques and Analysis** (3,0,3) Latest concepts, procedures, and techniques used in analyzing the processes of heavy construction. PREREQ: IET 220, IET 221, and IET 322.

**IET 427 Construction Law and Legal Contracts** (3,0,3) Contract law principles, mechanics liens, tort law, labor and employment law, insurance and suretyship, arbitration, and contract license law. PREREQ: IET 221.

**IET 428 Commercial Architecture** (2,2,3) Techniques and procedures used in design and creation of working drawings for commercial structures; production of project work via CAD. PREREQ: IET 222.

**IET 440 Web Development: E-Learning Systems** (3,0,3) Addresses other major components necessary when developing and designing Web sites including but not limited to instructional design, advanced audio/video creation, animations, and project management strategies.

**IET 442 Web Development: Practicum** (3,0,3) Culminating Web development course on strategies and skills with real-time, real-life activities and projects in conjunction with local businesses, not-for-profit agencies and educational entities. The emphasis is on further developing the project management skills, HTML programming, instructional design and other various media into a cohesive Web site.

**IET 447 Advanced Communications Electronics** (2,2,3) Modern electronic communication theory and practice; introduction to communication systems, digital communication, and networks; modulation, propagation, error and base methods, compression, and system characteristics; sub-systems and components in laboratory. PREREQ: IET 344 and IET 345.

**IET 448 Network Hardware** (2,2,3) 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. PREREQ: IET 345.

**IET 465 Automated Manufacturing Systems** (2,2,3) Integrated manufacturing automation including CIM/FMS, system controls, fixed systems, robotics, and economics of automation. PREREQ: IET 300 and IET 365.

**IET 467 Advanced Microprocessors** (2,2,3) Advanced architectures, multitasking, virtual memory, networking, assembly language programming, and advanced interfacing techniques. PREREQ: IET 367.

**IET 487 Teaching Industrial Education Capstone** (4,0,4) 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.

**IET 488 Problems in Industrial Education** (3,0,3) Problems, issues, and trends. Students will complete a paper and present findings in a seminar. PREREQ: IET 280.

**IET 494 Seminar: Technology** (3,0,3) Readings and discussion of critical questions. Topics vary according to interests and needs of students. May be repeated two times (6 sem. hrs.)

**IET 496 Instructional Internship** (8 sem. hrs.) Orientation/exploration or preparation level classroom experiences through observing, planning, and teaching under supervision of an experienced industrial education teacher; conferences and seminars.

## Information Systems

### IFS

**IFS 105 Introduction to Business Computing** (3,0,3) 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.

**IFS 110 Business Programming** (3,0,3) 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.

**IFS 210 COBOL Programming I** (3,0,3) Computer software design and programming using the COBOL language; fundamentals of problem analysis, program design, and program coding and testing; programming techniques and language syntax for developing computer based business systems. PREREQ: IFS 110 or consent of instructor; sophomore standing.

**IFS 211 COBOL Programming II** (3,0,3) Development of systems of COBOL programs to implement business applications software for data entry, editing and validation, file creation and maintenance, file updating, and file inquiry and report writing; computer systems facilities, e.g., file and database structures, access methods, and control language. PREREQ: IFS 210 or consent of instructor; sophomore standing.

**IFS 225 Data Communications** (3,0,3) Introduction to computer networking; data communications; data transmission, data encoding, data link control; communications network techniques; network protocols; wireless networking; network server configuration; and planning and deploying a local area network. Open only to students certified as majoring in business or with consent of instructor. PREREQ: IFS 105.

**IFS 235 Database Modeling** (3,0,3) Concepts and techniques of data modeling; end users data model, global data model synthesis, data model decomposition, relational modeling, entity relationship modeling, schema creation, and implementation. PREREQ: IFS 110, IFS 110.

**IFS 300 Management Information Systems** (3,0,3) 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. PREREQ: Junior standing, MAT 212 Statistics I and demonstrated competency in Word, Excel and PowerPoint e.g., completion of IFS 105 or OST 111 and OST 214 or CSC 150 or equivalent transfer work or placement.

**IFS 305 Advanced Business Programming (3,0,3)** 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. PREREQ: IFS 110.

**IFS 310 Structured Analysis & Design (3,0,3)** 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. PREREQ: IFS 110 and junior standing.

**IFS 320 Database Management Systems (3,0,3)** 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. PREREQ: IFS 302 and junior standing.

**IFS 325 E-Business Strategies Development (3,0,3)** This course focuses on developing e-business strategies and systems for businesses. It is designed to introduce students to web programming techniques and key business processes and concepts pertaining to electronic commerce and collaboration. The course helps students to develop an understanding of the basics and introductory tools, techniques and programming skills for e-commerce applications. PREREQ: Junior standing or consent of chair.

**IFS 330 IT Project Management (3,0,3)** 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. PREREQ: Junior standing or consent of chair.

**IFS 402 Programming for E-Commerce (3,0,3)** 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. PREREQ: IFS 305 or equivalent; junior standing.

**IFS 410 Advanced Analysis and Design (3,0,3)** Systems design and implementation; design strategies, tools, and techniques for developing computer based systems; application of systems analysis, systems design, and systems development software to a systems development project. Open only to students certified as majoring in business or with consent of instructor. PREREQ: IFS 310; junior standing.

**IFS 420 Knowledge Management & Enterprise Applications (3,0,3)** This course explores strategic knowledge management and its applications in business organizations. It also focuses on enterprise systems that facilitate the planning and use of organizational databases to implement decision support systems, data warehousing and data mining systems and executive support systems to improve organizational performance. PREREQ: Junior Standing; certified major in information systems or consent of chair.

**IFS 430 Workflow Design and Management (3,0,3)** This course provides learners a managerial introduction to ideas pertaining to the analysis, design and management of both organizational and inter-organizational business processes. It focuses on workflow management issues at the individual, group and organizational levels. Business methodologies and practices from industry such as business process reengineering, customer relationship management, and supplier chain management are used to contextualize theoretical ideas pertaining to process analysis and workflow management. The relationship between process innovation methods and strategic business models is also explored and learners are exposed to software and optimization tools pertaining to process modeling and workflow simulation. PREREQ: Junior Standing; certified major in information systems or consent of chair.

**IFS 440 Global Information Technology Management (3,0,3)** 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. PREREQ: Junior standing; certified major in information systems or consent of chair.

**IFS 485 Strategic Information Systems Management (3,0,3)** 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; inter-organizational systems; electronic supply chain management; customer relationship management; strategic business reengineering; enterprise resource planning (ERP); outsourcing; IS planning methods; and methods for the control of organizational IT resources. This course serves as the capstone course for the Information Systems major in Business Administration. PREREQ: Senior standing; certified major in information systems or consent of chair. Should be taken within the last 15 hours of program.

**IFS 494 Topics: Information Systems (3,0,3)** 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. PREREQ: Senior standing; certified major in information systems.

**IFS 499 Independent Study: Information Systems (3,0,3)** Student investigation of a topic or completion of a project. Meeting times arranged with instructor. Open only to students certified as majoring in information systems. PREREQ: IFS 305; senior standing; certified major in information systems; consent of instructor.

## International Programs

### INTL

**INTL 300 International Service Learning Experience (1-3,0,1-3)** Short-term volunteer community service work outside the United States as part of an NKU team. Includes preparatory seminars and follow-up meetings. PREREQ: ENG 101, consent of instructor, and student must apply to the Office of International Programs. May be repeated twice. Graded Pass/Fail.

### Italian

#### ITA

**ITA 101 Elementary Italian I (3,1,4)** Introduction to grammar, pronunciation, and vocabulary; practice in speaking. *A general education course (humanities).*

**ITA 102 Elementary Italian II (3,1,4)** Continuation of ITA 101, additional grammar study, pronunciation drill, and new vocabulary; further practice in speaking and reading. *A general education course (humanities).* PREREQ: ITA 101 or equivalent.

**ITA 201 Intermediate Italian I (3,0,3)** Review and extension of basic language skills acquired in ITA 101 and 102; reading and discussion of cultural and literary subjects. *A general education course (humanities).* PREREQ: ITA 102 or equivalent.

**ITA 202 Intermediate Italian II (3,0,3)** Continuation of grammar review and enhancement of language skills begun in ITA 201; reading and discussion of cultural and literary subjects. *A general education course (humanities).* PREREQ: ITA 201 or equivalent.

### Journalism

#### JOU

**JOU 100 Contemporary Mass Media (3,0,3)** Basic concepts of mass communication and the roles and functions of mass media in today's society; analysis of operation of all major mass media. Same as RTV 100.

**JOU 110 Etymology (3,0,3)** Origins, background, and fundamental value of words as a communication medium.

**JOU 130 Newswriting I (3,0,3)** Introduction to fundamental reporting methods, various styles of newswriting, the vocabulary of the profession, the role of the journalist in society, and the workings of newspapers, both dailies and weeklies. PREREQ: ACT English score of 20 or higher and ENG 101 or consent of instructor.

**JOU 230 Newswriting II (3,0,3)** Application of fundamental reporting and writing techniques to a variety of complex journalistic story forms: news stories and features, press releases, and radio and TV news. PREREQ: JOU 130.

**JOU 262 Audiovisual Production** (2,4,3) Techniques for producing sound and visual informational programs; concept development, scripting, story boarding, and production using cameras, recorders, projectors, and other production equipment. PREREQ: JOU/RTV 100 or consent of instructor.

**JOU 265 Broadcast News Writing** (3,0,3) 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. PREREQ: JOU/RTV 100 and JOU 130.

**JOU 296 Practicum: Journalism** (0,4-12,1-3) Academically supervised and evaluated on the job experience working on campus for student media. A maximum of 6 semester hours of communication practicum is applicable toward the major in journalism. PREREQ: JOU 130 or consent of instructor.

**JOU 321 Publication Skills** (2,4,4) Introduction to and application of publication design and production skills for journalists and journalism related professionals; desktop publishing and other aspects of computer based systems related to fundamental word processing, typography, graphics, page makeup, and publication production. PREREQ: JOU/RTV 100 or consent of instructor.

**JOU 325 Photojournalism** (3,0,3) Photo communication and photojournalism as practiced by newspaper and magazines; use of the camera as a tool of modern journalism. PREREQ: JOU 100 or consent of instructor.

**JOU 330 Public Affairs Reporting** (2,2,3) In-depth reporting of government activities, community issues and events, and specialized topics, e.g., business and medicine. PREREQ: JOU 130.

**JOU 331 Advanced Reporting: Specialties** (3,0,3) Reporting for special interests and/or about specially focused subject matters in both hard news and personal column formats. PREREQ: JOU 130.

**JOU 332 Advanced Reporting: Precision Journalism** (3,0,3) Trends in and methods of incorporating statistical and social science research techniques into reporting practices. PREREQ: JOU 230.

**JOU 335 Women in Mass Media** (3,0,3) Women and their roles as professional communicators, past and present, in the various media; newspapers, magazines, radio/TV/film, and advertising.

**JOU 340 Feature Writing** (2,2,3) Freelance and staff writing for magazines, house organs, and other publications. PREREQ: ENG 101 and JOU 230 or consent of instructor.

**JOU 346 Copy Editing** (2,2,4) Instruction and practice in newspaper and magazine copy desk work; editing, rewriting, and page makeup and layout. PREREQ: JOU 321.

**JOU 360 Interviewing** (3,0,3) 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 RTV 365 and SPE 360.

**JOU 370 Principles of Advertising** (2,2,3) Processes and practices of advertising, conception, organization, market research, copy writing, ad layout and production, media selection and scheduling, and assessment of impact. PREREQ: JOU 100.

**JOU 371 Advertising Copy Writing** (2,2,3) Principles and practice in writing effective advertising copy in printed media and broadcast. PREREQ: JOU 370.

**JOU 374 Advertising Problems and Policies** (3,0,3) Historic and present problems in advertising; application of copy writing techniques; case study approach. PREREQ: JOU 370.

**JOU 385 Law of Mass Communications** (3,0,3) Basic legal concepts and issues affecting mass communication; constitutional law, the First Amendment, libel, slander, invasion of privacy, copyright, the FCC and its regulation of broadcasting, legal access to the media, and the use of classified information by the media. PREREQ: JOU 100 or junior standing.

**JOU 396 Internship: Journalism** (0,1-5,3) Selected placement, for students declared as majoring or minoring in journalism, in off campus newspapers, public relations/advertising agencies, or other employers of communication professionals. Assigned work may include reporting, writing, editing, production, promotion, and communication management for commercial or noncommercial organization. Repeatable once, for full credit, if second placement involves a different organization and/or duties than the first. PREREQ: 1 semester hour of Journalism practicum (JOU 296); consent of supervising faculty.

**JOU 421 History of Mass Communications** (3,0,3) Social, political, economic, and technological history of U.S. mass media from colonial times to the present; research methods and use of primary sources in historical research.

**JOU 425 Communication Symposium** (3,0,3) Interdisciplinary issue or problem in mass communications. Focus on different problems or issues each time course is offered. Repeatable once for full credit. PREREQ: JOU 100 or junior standing.

**JOU 430 Communication Theories** (3,0,3) Theories of interpersonal, group, public, and mass communication; historical developments, paradigms, and research that shape communication theory construction. Same as RTV 430 and SPE 430. PREREQ: at least junior standing.

**JOU 440 Ethics and Media** (3,0,3) Evaluation of social and ethical issues relating to mass media; class emphasis on discussion rather than lecture. PREREQ: JOU 100 or junior standing.

**JOU 480 Reviewing** (3,0,3) Essentials of the research, backgrounds, and sources for criticism of performance events, including theatre, films, television, and dance. Student will write numerous critiques of performance events within the community. Same as TAR 480.

**JOU 492 Mass Communication Research Methods** (3,0,3) Methods of conducting, interpreting, and reporting research relating to mass communications, mass media, public relations, and advertising. PREREQ: JOU 230 or SPE 220.

**JOU 499 Independent Study** (1-3 sem. hrs.) 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. PREREQ: junior or senior standing; a GPA of at least 2.50 or consent of instructor; approved independent study proposal.

**JOU 510 Advising High School Publications** (3,0,3) Acquainting high school publication advisers with all facets of producing a school newspaper; teaching of newswriting, feature writing, copy editing, makeup, typography, and the art of motivating student participation; legal responsibilities of the adviser and the student journalist.

## Japanese

### JPN

**JPN 101 Elementary Japanese I** (3,1,4) Oral-aural approach to Japanese language, pronunciation, vocabulary, grammar; kana syllabary writing system. *A general education course (humanities).*

**JPN 102 Elementary Japanese II** (3,1,4) 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. *A general education course (humanities).* PREREQ: JPN 101 or equivalent.

**JPN 201 Intermediate Japanese I** (3,0,3) 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. *A general education course (humanities).* PREREQ: JPN 102 or equivalent.

**JPN 202 Intermediate Japanese II** (3,0,3) Continuation of JPN 201; additional practice in language structural patterns and cultural influences. *A general education course (humanities).* PREREQ: JPN 201 or equivalent.

## Criminal Justice

### JUS

**JUS 101 Introduction to Criminal Justice** (3,0,3) 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. *A general education course (social sciences).*
- JUS 200 Police in America (3,0,3)** 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 (3,0,3)** 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 System (3,0,3)** 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 (3,0,3)** Kinds, degrees, and admissibility of evidenced; collection and handling of evidence; introduction to forensics and criminalistics; application of investigative techniques to specific offenses; types of investigations such as wire tapping, undercover, and sting operations; current trends and future prospects.
- JUS 205 Criminal Evidence (3,0,3)** 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. PREREQ: JUS 101.
- JUS 210 Legal Research (3,0,3)** Methods of research in establishing authoritative legal opinion and the processing of legal activities.
- JUS 215 Private Sector Security (3,0,3)** Overview of the American private police system; historical development, trends in private security; organizational structure; career opportunities, and philosophical differences between security and policing. PREREQ: JUS 101 or consent of instructor.
- JUS 220 Liability and Ethics in Criminal Justice (3,0,3)** Civil and criminal liability of criminal justice personnel; current trends in litigation; alternatives to litigation; lawsuit prevention; moral foundations of administration of justice in the ethos of a republic; conflicts and dilemmas revolving around accountability, authority, and power. PREREQ: JUS 101 or consent of instructor.
- JUS 231 Race, Gender, and the Crime (3,0,3)** 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. *A general education course (race/gender perspective).*
- JUS 294 Special Topics (3,0,3)** 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. PREREQ: JUS 101 or consent of instructor.
- JUS 302 Criminal Law (3,0,3)** Major crimes; classification, elements of proof, intent, conspiracy, responsibility, parties, and defenses; common law and adaptations. PREREQ: JUS 101 or 203 or consent of instructor.
- JUS 303 Criminal Procedure (3,0,3)** 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. PREREQ: JUS 101 or 203 or consent of instructor.
- JUS 310 Police Management (3,0,3)** Organization and administration as applied to operational services, patrol, criminal investigation intelligence and vice units, juvenile units, and traffic administration. PREREQ: JUS 101 and 200 or consent of instructor.
- JUS 311 Police in the Community (3,0,3)** 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. PREREQ: JUS101 and 200 or consent of instructor.
- JUS 312 Institutional Corrections (3,0,3)** Legal requirements, management issues, and proper procedures in administering correctional operations in the U.S. PREREQ: JUS 101 or 201 or consent of instructor.
- JUS 313 Rights of the Convicted (3,0,3)** 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. PREREQ: JUS101 or 201 or consent of instructor.
- JUS 317 Perspectives on Crime (3,0,3)** 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. PREREQ: JUS 101 or PCS 100 or consent of instructor.
- JUS 318 The African American, The Law and The Courts (3,0,3)** Course provides an analysis of the legal development and status of African Americans from slavery to citizenship as enumerated by the U.S. Constitution and interpreted by the U.S. Supreme Court. PREREQ: JUS 302 or consent of instructor.
- JUS 319 Criminal Justice in Film (3,0,3)** 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 (3,0,3)** 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. PREREQ: JUS 204.
- JUS 321 Black Women, Crime and Politics (3,0,3)** Examines the role of women of African descent in America, their history from slavery to the present and their impact on crime and politics. Discussion about the role of women of African descent in Africa prior to slavery in America and their social, political, and legal history toward citizenship. PREREQ: JUS 101.
- JUS 351 Organized/White-Collar Crime (3,0,3)** History, scope, and methods of control of organized crime; emergence and sophisticated independent problem and as a face of organized crime; cultural and social implications. PREREQ: JUS 101 or consent of instructor.
- JUS 400 Juvenile Justice (3,0,3)** 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. PREREQ: JUS 101 or consent of instructor.
- JUS 401 Correctional Rehabilitation (3,0,3)** An overview of correctional counseling strategies and techniques; theoretical frameworks; diagnostic and classification schemes; principles of confidentiality; characteristics of program effectiveness. PREREQ: JUS 101 or 201 or consent of instructor.
- JUS 402 Alternatives to Incarceration (3,0,3)** 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. PREREQ: JUS 101 or 201 or consent of instructor.
- JUS 409 Alternative Dispute Resolution (3,0,3)** Victim/offender mediation and related strategies; principles of restorative justice including restitution, reconciliation, and empowerment; negotiation techniques and mediator styles; history and organization of mediation programs. PREREQ: JUS 101 or consent of instructor.
- JUS 430 The Politics of Criminal Justice (3,0,3)** Crime as a political issue; political ideology and response to crime; lawbreaking as political protest and political



cal violence; political trials; legislation of morality. PREREQ: JUS 101 or PSC 100 or consent of instructor.

**JUS 494 Seminar: Justice Studies** (3,0,3) Designed to provide specialized study in justice-oriented areas. PREREQ: JUS 101 and 3 additional semesters of justice studies coursework or consent of instructor.

**JUS 494 Special Topics** (3,0,3) Intensive study of a specific topic or issue in criminal justice. Topics vary as new issues arise. May be repeated when topics vary. PREREQ: JUS 101 or consent of instructor.

**JUS 496 Internship: Justice Studies** (1-15 sem. hrs.) 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. PREREQ: JUS 101; 3 additional semester hours of justice studies coursework; and consent of instructor prior to registration.

**JUS 499 Readings: Justice Studies** (3,0,3) Specialized reading or primary research interests completed through independent study. PREREQ: JUS 101; 3 additional semester hours of justice studies coursework; and consent of instructor and program coordinator.

### Learning Assistance Programs

#### LAP

**LAP 090 Academic Assistance** (1,0,1) Supplementary instruction paired with selected general education and developmental courses. May be repeated for credit when paired with different courses. Offered on a pass/fail basis. Not applicable toward graduation.

**LAP 091 Reading Workshop** (3,0,3) 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.

**LAP 110 Critical Reading** (3,0,3) Development of critical reading strategies (including analysis, synthesis, and evaluation); cultural literacy; contemporary themes through readings from the natural sciences, sociology, anthropology, psychology, literature, and the arts. Provides preparation for general education courses in a variety of disciplines.

**LAP 120 Evaluating Sources** (3,0,3) Instruction in information literacy and research techniques; analyzing research questions and information needs, gathering and critically evaluating source materials, and effective selection of sources; editorial and discipline related perspectives, objectivity, credibility, and bias in source materials. Provides preparation for all courses requiring library research.

**LAP 201 Tutoring in Learning Assistance Center** (1,0,1) Administering and interpreting reading and writing tests; methods of teaching writing, reading, and study skills. Students receive hands on experience in Learning Assistance Center. Designed for prospective teachers and students interested in peer tutoring at NKU. PREREQ: sophomore standing or above and overall GPA of at least 3.00.

**LAP 210 Bookscapes** (3,0,3) Introduction to the world of contemporary tradebooks, fiction and non-fiction. Students read tradebooks and learn how to engage with in-depth discussions of these books in an egalitarian, book-discussion-club atmosphere. PREREQ: Sophomore standing or consent of instructor.

### Industrial and Labor Relations

#### LAS

**LAS 300 Introduction to Labor Relations** (3,0,3) 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.

**LAS 301 Labor-Management Negotiations** (3,0,3) Practice and theory of collective bargaining and negotiations in the U.S. private sector. Students will be expected to participate in simulated negotiations. PREREQ: LAS 300.

**LAS 302 Contract Administration and Dispute Settlement** (3,0,3) Day-to-day administration of a labor agreement; legal framework, the grievance procedure,

role of arbitration; informal dispute resolution; labor management, cooperative efforts. PREREQ: LAS 300.

**LAS 303 Labor Law** (3,0,3) Legal and administrative framework for labor management relations; role of the courts; the NLRB and other administrative agencies, decisions, and procedures. PREREQ: LAS 300.

**LAS 304 Wages and Benefits** (3,0,3) 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. PREREQ: LAS 300.

**LAS 320 Problems in Labor Law** (3,0,3) New developments in labor law, protective labor legislation (Fair Standards Act, Occupational Safety and Health Act, Workmen's Compensation, the Equal Opportunity Employment Act), and current judicial and administrative interpretations of existing legislation. PREREQ: LAS 300 and LAS 303.

**LAS 490 Labor Relations Capstone** (3,0,3) Conflict resolution, consideration of case literature on collective bargaining and relation of this literature to experiences observed at actual arbitrations and negotiations.

**LAS 494 Topics: Labor Relations** (3,0,3) Study of as elected contemporary area in labor relations. Possible topics might include, but are not limited to: theories of the labor movement, manpower management, ethical principles, and role of supervision. PREREQ: LAS300.

**LAS 496 Practicum: Industrial & Labor Relations** (3,0,3) A work-study program to provide students with an opportunity to observe and participate in an area of labor relations to gain a realistic appreciation for the orientation, procedures, and problems encountered by management, labor, and government in the conduct of industrial relations. Includes are search paper drawn from field work experience. PREREQ: LAS 300, LAS 301, and LAS 302.

### Latin

#### LAT

**LAT 101 Elementary Latin I** (3,0,3) Introduction to language and culture of ancient Rome designed for beginning students. *A general education course (humanities).*

**LAT 102 Elementary Latin II** (3,0,3) Continuation of LAT 101. *A general education course (humanities).* PREREQ: LAT 101 or equivalent.

**LAT 201 Intermediate Latin I** (3,0,3) Review of grammar and vocabulary in LAT 101-102; introduction of advanced construction in context of readings and cultural study. *A general education course (humanities).* PREREQ: LAT 102 or equivalent.

**LAT 202 Intermediate Latin II** (3,0,3) Continuation of LAT 201; practice with advanced grammatical constructions and translation of literary selections. *A general education course (humanities).* PREREQ: LAT 201 or equivalent.

**LAT 280 Topics in Latin Language and Literature** (1-3,0,1-3) Wide variety of authors, genres, and themes in Latin literature or specific problems in Latin grammar and style. May be repeated for credit once as topics vary. PREREQ: LAT 102 or equivalent.

### Organizational Leadership

#### LDR

**LDR 480 Organizational Leadership Capstone** (3,0,3) Trends, topics, and issues of organizational purpose and responsibility. PREREQ: IET 395 and senior standing.

### Library Science

#### LSC

**LSC 190 Topics: Public Libraries** (3 sem. hrs.) Public library trends, reader and technical services issues, management topics, preservation and conservation, automation developments, and other current issues. Topics will vary and will be selected from the above list. Days or evenings, summer.

### Developmental Mathematics

#### MAH

**MAH 080 Mathematics Assistance** (1,0,1) Supplementary instruction paired with selected developmental mathematics courses. May be repeated for credit when

paired with different courses. Offered on a pass/fail basis. Not applicable toward graduation.

**MAH 090 Basic Mathematical Skills** (3,0,3) Signed numbers, fractions, decimals, percents, ratio and proportion, measurements, and introduction to algebra. Recommended only for students who need a thorough treatment of these topics, which are discussed briefly in MAH 095. Does not apply toward any graduation requirements.

**MAH 095 Beginning Algebra** (3,0,3) Operations on real numbers, equations and inequalities in one variable, graphs of lines, integer exponents, operations on polynomials, and factoring with emphasis on applications. Does not apply toward any graduation requirements.

**MAH 097 Elementary Geometry** (3,0,3) 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.

**MAH 099 Intermediate Algebra** (3,0,3) Rational expressions and equations; ratio and proportion; functions; equations of lines; systems of equations; compound inequalities; linear inequalities in two variables; radicals; graphs of lines, parabolas, and circles; quadratic equations with emphasis on applications. Does not apply toward any graduation requirements.

## Mathematics

### MAT

**MAT 102 Business Mathematics** (3,0,3) Percents and applications; simple interest; compound interest and its ramifications; descriptive statistics; examples and applications related to income taxes and deductions, depreciation schemes, annuities, mortgages, taxes, and insurance. PREREQ: C or better in MAH 099 or placement.

**MAT 109 Algebra for College Students** (3,0,3) 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. PREREQ: C or better in MAH 099 or placement.

**MAT 110 Introductory Probability** (3,0,3) Enumeration techniques and probability theory. *A general education course (mathematics)*. PREREQ: C or better in MAH 099 or placement.

**MAT 111 Introductory Linear Mathematics** (3,0,3) Matrices; systems of linear equations; linear programming; selected applications to problems in business and social sciences. *A general education course (mathematics)*. PREREQ: C or better in MAH 099 or placement.

**MAT 112 Calculus for Business Applications** (3,0,3) Elementary differential calculus of one and several variables; applications to business and economics. Not open to students who have passed MAT 120 or MAT 121. *A general education course (mathematics)*. PREREQ: C or better in MAT 109 or placement.

**MAT 113 Introduction to Probability and Statistics** (3,0,3) 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 110 and MAT 205, or both of MAT 110 and MAT 212, or MAT 250 or MAT 314. *A general education course (mathematics)*. PREREQ: C or better in MAH 099 or placement.

**MAT 115 Mathematics for Liberal Arts** (3,0,3) 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. *A general education course (mathematics)*. PREREQ: C or better in MAH 099 or placement.

**MAT 118 Technical Mathematics** (3,0,3) Geometry, trigonometry, analytic geometry, vectors, polar coordinates, complex numbers, systems of linear equations; trigonometric, exponential, and logarithmic functions; applications to technology. Not open to students who have passed MAT 120 or MAT 121. *A general education course (mathematics)*. PREREQ: C or better in MAH 099 or placement.

**MAT 119 Pre-Calculus Mathematics** (3,0,3) Analytic geometry; algebraic, trigonometric, exponential, and logarithmic functions. Not open to students who have passed MAT 120 or MAT 122. PREREQ: C or better in MAT 109 or placement.

**MAT 120 Calculus I** (6,0,5) Limits; derivatives; integrals; with applications. Recommended for all students interested in mathematics or science. *A general education course (mathematics)*. PREREQ: B or better in MAT 119, or placement.

**MAT 121 Calculus IA** (3,0,3) Includes material covered in the first half of MAT 120. Limits, derivatives, the chain rule, and applications of the derivative. *A general education course (mathematics)*. PREREQ: B or better in MAT 119, or placement.

**MAT 122 Calculus IB** (3,0,3) Material of the second half of MAT 120. Definite and indefinite integrals, the Fundamental Theorem of Calculus, applications of integration, calculus of exponential and logarithmic functions. *A general education course (mathematics)*. PREREQ: C or better in MAT 121.

**MAT 140 Mathematics for Elementary and Middle Grades Teachers I** (3,0,3) Basic concepts of numbers and arithmetic operations; number theory. Open only to students majoring in elementary or middle grades education. PREREQ: C or better in both MAH 097 and MAH 099 or placement.

**MAT 141 Mathematics for Elementary and Middle Grades Teachers II** (3,0,3) Elements of geometry. Open only to students majoring in elementary or middle grades education. PREREQ: C or better in MAT 140.

**MAT 185 Introductory Discrete Mathematics** (3,0,3) Number systems important in computer applications, logic, set theory, combinatorics and probability, graph theory. Not open to students who have completed MAT 385. PREREQ: C or better in MAT 109, or placement.

**MAT 205 Introduction to Statistical Methods** (3,0,3) 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 MAT 205 and MAT 212. Not open to students who have completed MAT 250 or MAT 314. *A general education course (mathematics)*. PREREQ: C or better in MAH 099 or placement.

**MAT 212 Statistics for Business Applications I** (3,0,3) 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 MAT 205 and MAT 212. Not open to students who have completed MAT 250 or MAT 314. *A general education course (mathematics)*. PREREQ: C or better in MAH 099 or placement.

**MAT 213 Statistics for Business Applications II** (3,0,3) Further development of key topics in MAT 212; multiple regression; time series; contingency tables; decision theory; use of statistical software. PREREQ: C or better in MAT 212.

**MAT 220 Calculus II** (6,0,5) Integration techniques; infinite series; vectors; vector-valued functions. PREREQ: C or better in MAT 120.

**MAT 221 Calculus IIA** (3,0,3) Integration by parts, numerical methods for approximating integrals, separable differential equations, calculus of parametric and polar curves, vectors, equations of lines and planes, calculus of vector-valued functions. PREREQ: C or better in MAT 120 or MAT 122.

**MAT 222 Calculus IIB** (3,0,3) Integration by parts, numerical methods for approximating integrals, improper integrals, infinite sequences, infinite series and tests for convergence/divergence, power series, Taylor and Maclaurin series and applications. PREREQ: C or better in MAT 120 or MAT 122.

**MAT 224 Introduction to Higher Mathematics** (3,0,3) Essentials of logic; methods of proof; set theory. PREREQ: C or better in MAT 220.

**MAT 225 Linear Algebra** (3,0,3) Vectors, matrix arithmetic, vector spaces, linear transformations, and applications. PREREQ: C or better in MAT 220 or MAT 221.

**MAT 240 Geometry for Middle School Teachers** (3,0,3) 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. PREREQ: C or better in MAT 141.

**MAT 250 Probability and Statistics I** (3,0,3) Introduction to probability and statistics; discrete distributions, continuous distributions, sampling distributions, estimation and hypothesis testing. PREREQ: C or better in MAT 120 or MAT 122.

**MAT 294 Topics: Mathematics** (3,0,3) Topics in mathematics, mathematics education or statistics. Topics vary. PREREQ: varies with topic (see *Schedule of Classes*).

**MAT 299 Directed Readings/Independent Study** (1-3 semester hours) PREREQ: consent of instructor.

**MAT 300 Introduction to Geometry** (3,0,3) Axiomatic Euclidean geometry; introduction to non-Euclidean geometries. PREREQ: C or better in MAT 224 or consent of instructor.

**MAT 305 History of Mathematics** (3,0,3) Mathematics from ancient times through development of the calculus. PREREQ: C or better in MAT120.

**MAT 310 Elementary Theory of Numbers** (3,0,3) Numbers and their representation, divisibility, and factorization; prime numbers; congruences; primitive roots; quadratic reciprocity; diophantine equations. PREREQ: C or better in MAT 224.

**MAT 312 Elementary Survey Sampling** (3,0,3) 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. PREREQ: C or better in MAT 205 or MAT 212 or MAT 250 or MAT 314.

**MAT 314 Design and Analysis of Experiments I** (3,0,3) Analysis of variance and experimental design; multiple comparison techniques; factorial experiments, regression, use of programmed routines. PREREQ: C or better in MAT 120 or MAT 205 or MAT 212.

**MAT 315 Design and Analysis of Experiments II** (3,0,3) Random and fixed effects models; nested designs, split plot designs; multiple regression; analysis of covariance. PREREQ: C or better in MAT 314.

**MAT 320 Multivariable Calculus** (3,0,3) Differentiation of functions of several variables, multiple integrals; vector fields; line and surface integrals; Green's Theorem, Stokes' Theorem, and the Divergence Theorem. PREREQ: C or better in MAT 220.

**MAT 324 Mathematical Problem Solving** (3,0,3) Heuristics of mathematical problem solving. PREREQ: C or better in MAT 224.

**MAT 325 Differential Equations** (3,0,3) Ordinary differential equations, with applications. PREREQ: C or better in MAT 220.

**MAT 330 Classical Applied Analysis** (3,0,3) Fourier series; orthogonal expansions; eigenvalue problems; boundary value problems in ordinary and partial differential equations. Same as PHY 330. PREREQ: C or better in MAT 225 and MAT 325.

**MAT 340 Probability II** (3,0,3) Further study of topics in MAT 250; multivariate distributions, approximations, functions of random variables; additional topics. PREREQ: C or better in MAT 250 and MAT 220 (or MAT 222).

**MAT 341 Statistics II** (3,0,3) Further study in statistics topics introduced in MAT 250. Topics include confidence intervals and hypothesis testing, one-factor analysis of variance, simple linear regression, chi-square analyses, and nonparametric tests. PREREQ: C or better in MAT 250.

**MAT 360 Numerical Analysis** (3,0,3) Numerical integration, solution of nonlinear equations by iterative processes; functional approximation and interpolation; initial value problems. PREREQ: C or better in MAT 225 and CSC 260.

**MAT 370 Selected Topics** (3,0,3) Topics vary. PREREQ: varies with topic. (see *Schedule of Classes*).

**MAT 375 Applied Mathematical Models** (3,0,3) 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. PREREQ: C or better in MAT 120 (or MAT 112) and MAT 205 or MAT 212 or MAT 250.

**MAT 380 Combinatorics and Graph Theory** (3,0,3) Enumeration via combinations, permutations, generating functions, and recurrence relations; graph theory with trees, directed graphs, and networks; applications. PREREQ: C or better in MAT 225.

**MAT 385 Discrete Mathematics** (3,0,3) Propositional and predicate logic; proof techniques; recurrence relations; basic set theory; introduction to graphs, Boolean algebra; finite state machines. PREREQ: C or better in MAT 220 and CSC 262.

**MAT 394 Topics: Mathematics** (3,0,3) Topics vary. PREREQ: varies with topic (see *Schedule of Classes*).

**MAT 399 Directed Readings** (1-3 sem. hrs.) PREREQ: consent of instructor.

**MAT 410 Abstract Algebra I** (3,0,3) Basic number theory, including divisibility properties of integers, and congruences; introduction to groups, rings, and fields. PREREQ: C or better in MAT 224 and MAT 225.

**MAT 415 Abstract Algebra II** (3,0,3) Extensive study of one or more of the topics considered in MAT 410. PREREQ: C or better in MAT 410.

**MAT 420 Real Variables I** (3,0,3) Foundations of calculus; topology of Cartesian spaces; convergence; continuous functions. PREREQ: C or better in MAT 224 and MAT 320.

**MAT 421 Real Variables II** (3,0,3) Sequences and series of functions; integration. PREREQ: C or better in MAT 420.

**MAT 430 Complex Variables** (3,0,3) Analytic functions of a complex variable; Cauchy's theorem and Cauchy's formula; power series; contour integrals; conformal mapping; calculus of residues. PREREQ: C or better in MAT 224 and MAT 320.

**MAT 494 Topics: Mathematics** (3,0,3) Topics in mathematics, mathematics education or statistics. Topics vary. PREREQ: varies with topic (see *Schedule of Classes*).

**MAT 499 Directed Readings** (1-3 semester hours) PREREQ: consent of instructor.

## Medieval Studies

### MDS

**MDS 201 Introduction to Medieval Studies** (3,0,3) Concepts and methods related to study of arts, history, literature, social institutions, and thought of middle ages. Required for medieval studies minor.

**MDS 494 Seminar: Medieval Studies** (3,0,3) Selected topics in culture of the middle ages; student research on is minor. PREREQ: MDS 201 and 9 semester hours of courses in medieval studies curriculum.

## Management

### MGT

**MGT 100 The Business of Management** (3,0,3) K.E.T. telecourse covering the basic elements of management, including planning, organizing, motivation, and communication in a variety of business settings. Does not fulfill any requirements for bachelor's degree programs in the College of Business. Not open to seniors with a declared major in any business discipline.

**MGT 205 Introduction to Business and Management** (3,0,3) 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. PREREQ: sophomore standing.

**MGT 206 Leadership Assessment and Development I (3,0,3)** Identify and assess leadership competencies and values. Gather and interpret data assessing strengths and weaknesses and develop an individualized learning plan to maximize use of courses and experiences and to stimulate self-directed learning. Complete career research and service projects to begin developing analytical, networking, oral presentation, writing, leadership, problem solving, and teamwork skills. Open only to pre-management majors. PREREQ: Sophomore standing.

**MGT 240 Managerial Communications (3,0,3)** Writing managerial documents: memoranda; letters; e-mail; short formal special reports; executive summaries and informal notes to superiors, peers and subordinates. Speaking as a manager through formal and informal addresses, business meetings, news conferences. Prepares students to write and speak effectively when solving problems managers face. Open only to pre-management majors. PREREQ: ENG 101, SPE 101 and sophomore standing.

**MGT 305 Operations Management in Business (3,0,3)** Concepts of operations in production and service organizations; application of quantitative and qualitative techniques to quality, human resources, forecasting, inventory, and process improvement problems. PREREQ: MAT 111 and MAT 212; junior standing.

**MGT 310 Managerial Behavior (3,0,3)** 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. PREREQ: MGT 205, SPE 220, and junior standing.

**MGT 340 Human Resources Administration (3,0,3)** 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. PREREQ: BAD 305 and junior standing.

**MGT 360 Comparative International Management (3,0,3)** 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. PREREQ: BAD 305 and junior standing.

**MGT 394 Topics: Management (3,0,3)** Specialized topics of student and business community interest. Topics for current offering listed in Schedule of Classes. With adviser's approval may be taken three for elective credit if topics differ. PREREQ: BAD 305 and junior standing.

**MGT 406 Leadership Assessment and Development II (3,0,3)** 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 life-long learning plans for acquiring future needed competencies. Open only to students certified as Management majors. PREREQ: MGT 206, MGT 310, MGT 340 and senior standing.

**MGT 410 Managing Organizational Change (3,0,3)** Application of theories of organizational change to a variety of business organizations; planning and implementing of organizational change as well as its behavioral aspects; use of simulations, cases, and/or projects to blend theory and practice. Open only to students certified as majoring in business disciplines. PREREQ: BAD 305, MGT 305, MGT 310, senior standing, or consent of instructor.

**MGT 415 Continuous Quality Improvement in Operations (3,0,3)** Advanced operations management approaches to quality; process and productivity improvement in manufacturing, and service and government organizations; use of case studies, exercises, and/or term projects to show application of management and quantitative concepts. Open only to students certified as majoring in business disciplines. PREREQ: BAD 305, MGT 305, senior standing, or consent of instructor.

**MGT 496 Internship: Small Business (0,5,15,1,3)** Application of theoretical knowledge in solving business problems through consulting and counseling with business owners; group work in case analysis and problem solving. May be repeated once for credit. Open only to seniors certified as majoring in business or by consent of instructor. PREREQ: consent of instructor.

**MGT 499 Independent Study: Management (1-3 sem. hrs.)** 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. PREREQ: BAD 305 and consent of instructor.

## Marketing MKT

**MKT 100 Marketing (3,0,3)** K.E.T. telecourse examining basic marketing concepts, trends, and strategies in a variety of contemporary business organizations. Does not fulfill any requirements for bachelor's degree programs in the College of Business. Not open to seniors with a declared major in any business discipline.

**MKT 305 Principles of Marketing (3,0,3)** Flow of goods from producer to consumer; demand-stimulated and demand-fulfilling activities of business enterprises; marketing concepts and systems analysis. PREREQ: junior standing.

**MKT 306 Sales Management (3,0,3)** Managing the sales force and overall marketing and promotional strategy; organization of selling, quotas, territories, expenses, policy changes, and competition. PREREQ: MKT 305 and junior standing.

**MKT 307 Retail Management (3,0,3)** 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. PREREQ: MKT 305 and junior standing.

**MKT 308 Advertising and Promotion (3,0,3)** Design, management, and coordination of marketing communications. PREREQ: MKT 305 and junior standing.

**MKT 310 Principles of Professional Selling (3,0,3)** Strategies, theories, and personal skills involved in professional and effective sales; the role of selling in marketing. PREREQ: MKT 305 and junior standing.

**MKT 320 Consumer Behavior (3,0,3)** Psychological, sociological, economic, and other dimensions of consumers and their environment. PREREQ: MKT 305 and junior standing.

**MKT 340 Industrial Marketing (3,0,3)** The non-consumer marketing world; strategies, techniques, and analytical approaches. PREREQ: MKT 305 and junior standing.

**MKT 392 Marketing Research (3,0,3)** Introduction to role of research in marketing decision making including research designs and methodologies, primary and secondary data collection, and sampling techniques. PREREQ: MKT 305, MAT 212, and junior standing.

**MKT 394 Topics: Marketing Issues (3,0,3)** 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. PREREQ: MKT 305 and junior standing.

**MKT 480 Marketing Strategies and Policies (3,0,3)** 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. PREREQ: MKT 320, MKT 392, and senior standing.

**MKT 492 Research: Advanced Marketing Research (3,0,3)** Development of advanced marketing research skills and knowledge through lecture/discussion and a field research study. Open only to students certified as majoring in business disciplines. PREREQ: ENG 340 (or OST 311), MKT 320, MKT 392, senior standing, or consent of instructor.

**MKT 499 Independent Study: Marketing (1-3 sem. hrs)** 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. PREREQ: MKT 305 and consent of instructor.

**Medical Technology****MTP**

- MTP 421 Immunohematology** (2,9,5) The blood group systems, detection of antigens and antibodies, and principles and methods involved in selecting and assuring compatible blood components for patient therapy. PREREQ: BIO 209
- MTP 422 Clinical Chemistry** (5,15,10) Analysis of chemical constituents of blood and other body fluids; basic principles of separation; methods of measurement, instrumentation, and computer applications; pathophysiology of normal and disease states. PREREQ: CHE 311.
- MTP 423 Clinical Microbiology** (3,9,6) Identification of normal or pathogenic organisms from the human body; bacterial diseases and their epidemiology; drug resistance of microorganisms; staining procedures and media; quality control; analysis of urine and stools; reading plates. PREREQ: BIO 206 and MTP 421.
- MTP 424 Medical Mycology** (1,0,1) Identification of medically significant fungi from clinical material; pathology of disease. PREREQ: MTP 423.
- MTP 425 Diagnostic Parasitology** (2,0,2) Morphology, life cycles, pathology, detection, and identification of medically significant parasites. PREREQ: MTP 423.
- MTP 426 Hematology and Coagulation** (3,12,7) Cellular elements of blood, hematopoiesis, and hemostasis; analysis by manual and automated methods; pathophysiology of disease states. PREREQ: MTP 421.
- MTP 428 Clinical Immunology** (2,0,2) Serological tests used in diagnosis of disease; methods and pathophysiology of disease; the immune systems, its role in the health and disease, and tests used to identify its components. PREREQ: MTP 421.
- MTP 429 Clinical Microscopy and Body Fluids** (2,3,3) Chemical and visual analysis through routine chemical tests or microscopic observations; special procedures. PREREQ: MTP 422.
- MTP 430 Independent Study** (0,3,1) Student investigation of problems chosen in consultation with instructor. Up to 3 semester hours may be earned in this course. PREREQ: clinical year status in medical technology program.

**Music****MUS**

- MUS 100 Music Appreciation** (3,0,3) Survey of the development of mankind in western civilization through the study of music literature, music history, and basic components of music. For students not majoring in music. *A general education course (humanities or fine arts).*
- MUS 105, 305 Ensemble Accompanying** (1-3 sem. hrs. each) Accompanying ensembles, one per semester as assigned. PREREQ: consent of instructor. May be repeated for credit.
- MUS 107 Survey of African-American Music** (3,0,3) 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. *A general education course (humanities, fine arts, or race/gender).*
- MUS 108 History of Rock & Roll** (3,0,3) Survey of the history, aesthetics, and sociology of rock and roll in the United States from its origins to the present. *A general education course (fine arts or humanities).*
- MUS 109 History of American Popular Music** (3,0,3) Survey of the history and development of American popular music from 1940 to the present. *A general education course (humanities or fine arts).*
- MUS 110 Appreciation of Jazz** (3,0,3) Jazz, its historical background, and its stylistic development in the U.S. Designed for students majoring in any subject. *A general education course (humanities or fine arts).*
- MUS 120 Introduction to Music Theory** (3,0,3) Notational vocabulary and basic reading skills. For students with limited background in music.
- MUS 121 Introduction to Aural Skills** (0,2,1) Introduction to aural skills: sight singing, dictation, and keyboard harmony.
- MUS 122 Theory I** (3,0,3) Basic vocabulary of music and its application to harmony, counterpoint, and analysis. Students registering for music theory will be given theory placement tests and assigned to MUS 120 or MUS 122.
- MUS 123 Theory II** (3,0,3) Continuation of MUS 122, PREREQ: MUS 122.
- MUS 124 Aural Skills I** (0,2,1) Sight singing, dictation, and keyboard harmony.
- MUS 125 Aural Skills II** (0,2,1) Continuation of MUS 124. PREREQ: MUS124.
- MUS 130 Introduction to Music Literature** (2,1,2) 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** (0,2,1) 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** (0,3,1) 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. PREREQ: MUS 135, or 1 or more years of private piano study, or consent of instructor.
- MUS 140 Class Piano I** (0,3,1) 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** (0,3,1) Continuation of MUS 140. PREREQ: MUS 140.
- MUS 142 Class Piano III** (0,3,1) Continuation of MUS 141. PREREQ: MUS 141.
- MUS 143 Class Piano IV** (0,3,1) Continuation of MUS 142. PREREQ: MUS 142.
- MUS 144 Lyric Diction I** (3,0,3) A phonetic study of English, Latin, and Italian as utilized by the singer. Readings and performances of song lyrics.
- MUS 145 Lyric Diction II** (3,0,3) A phonetic study of German and French as utilized by the singer. Readings and performances of song lyrics. PREREQ: MUS 144.
- MUS 146 Group Voice** (1,2,1) Vocal technique; theory and development of the singing voice; posture, breathing, correct tone production, diction, and stage deportment. For students majoring in music.
- MUS 147 Harpsichord for Pianists** (1,2,1) Technique; introduction to renaissance, baroque, and 20th century repertoire; performance practices; comparison of harpsichord and piano technique and style. Limit four per class. May be repeated for credit. PREREQ: consent of instructor.
- MUS 148 Group Guitar** (1,2,1) Group instruction in beginning guitar; development of reading, technique, and functional skills helpful for elementary school teachers and others majoring in music.
- MUS 149 Organ for Pianists I** (1,2,1) Manual and pedal technique, registration, beginning repertoire, service playing. Limit four per class. May be repeated for credit. PREREQ: consent of instructor.
- MUS 150 Organ for Pianists II** (1,2,1) Advanced manual and pedal technique, registration, advanced repertoire, service playing. Limit four per class. May be repeated for credit. PREREQ: consent of instructor.
- MUS 168-189 Applied Music** (12 sem. hrs.) Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. ½ contact hour = 1 sem. hr.; 1 contact hour 2 sem. hrs. Fees assessed according to contact hours. PREREQ: placement audition.
- MUS 196 Recital Review** (0,2,0) Students majoring in music, unless excused by the music chair, must register each semester for, and pass, MUS 190. Course

- requirements are satisfied by certified attendance and review a minimum of 16 approved recitals/concerts per semester (eight during student teaching).
- MUS 222 Theory III** (3,0,3) Continuation of MUS 123. Advanced contrapuntal and harmonic vocabulary and techniques. PREREQ: MUS 123.
- MUS 223 Theory IV** (3,0,3) Chromatic vocabulary; extended tonality approached through analysis and composition. PREREQ: MUS 222.
- MUS 224 Aural Skills III** (0,2,1) Advanced dictation; sight singing; keyboard harmony. PREREQ: MUS 125.
- MUS 225 Aural Skills IV** (0,2,1) Continuation of MUS 224, with chromatic materials. PREREQ: MUS 224.
- MUS 228 Applied Composition I** (1 sem. hr.) Private or semi-private instruction in music composition. One half hour less on per week. PREREQ: placement test; at least 2.50 GPA in music theory/aural skills. Fees assessed according to contact hours.
- MUS 229 Applied Composition II** (1 sem. hr.) Private or semi-private instruction in music composition. One half hour less on per week. Maybe repeated for credit. PREREQ: MUS 228. Fees assessed according to contact hours.
- MUS 230 History of Music I: Antiquity through Early Baroque** (3,0,3) Music in western civilization from the earliest sources to the late 17th century. (ca. 1680). *A general education course (humanities or fine arts).*
- MUS 231 History of Music II: Late Baroque to Mid 19th Century** (3,0,3) Music in western civilization from ca. 1680 to ca. 1850. *A general education course (humanities or fine arts).*
- MUS 241 Applied Methods and Materials: Brass** (1,2,1) Class instruction in performance and pedagogy.
- MUS 243 Applied Methods and Materials: Woodwinds** (1,2,1) Class instruction in performance and pedagogy.
- MUS 245 Applied Methods and Materials: Strings** (1,2,1) Class instruction in performance and pedagogy.
- MUS 247 Applied Methods and Materials: Percussion** (1,2,1) Class instruction in performance and pedagogy.
- MUS 253 Women in Music in Europe and America I: 800-1900** (3,0,3) The role of women as composers, performers, teachers, scholars, and patrons, from the minstrels of the Middle Ages and Convents of the Renaissance, to the concert stages of the early 20th Century.
- MUS 254 Women in Music in Europe and America II: The 20th Century** (3,0,3) The role of women as composers, performers, conductors, administrators, teachers, scholars, and patrons.
- MUS 260 Music Fundamentals and Skills for Classroom Teachers** (1,2,3) 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 268-289 Applied Music** (1-2 sem. hrs. each) Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. ½ hr. contact = 1 semester hour, 1 hr. contact = 2 semester hours. Fees assessed according to contact hours. PREREQ: placement test.
- MUS 291W Advanced Writing in the Music Performance** (3,0,3) Practice in a variety of expository forms common to the field of music; concert review, musical analysis, program notes, press release, journal article, research paper; and development of strong research skills. *A general education course (Written Communication II).* PREREQ: ENG 101, MUS 122. Open to non-music majors and music majors who have not completed MUS 122 with consent of instructor.
- MUS 308 University/Community Orchestra** (0,3,1) 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. PREREQ: audition and consent of instructor.
- MUS 309 Introduction to Music Education** (3,0,3) Students examine the teaching profession and schooling as it currently functions in America. Emphasis on the Kentucky Education Reform Act, educational theory, and educational practice. Provides music education majors an overview of the total school music program. Observation and clinical experience required. PREREQ: 48 semester hours as specified in the curriculum contract; at least 2.50 GPA; completion of pre-music curriculum.
- MUS 310 Chamber Music Ensembles** (1,2,1 each) Participation in several ensembles to study and perform chamber music literature. May be repeated for credit. PREREQ: audition.
- MUS 311 Accompanying and Chamber Music** (1,2,1) Drill in sight reading; training in listening and anticipating; following and leading; matching tone, color, and mood of the solo part; rescuing a soloist in trouble, and assuming a solo role when appropriate. May be repeated for credit.
- MUS 312 Computer Applications for Musicians** (2,1,1) 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. PREREQ: MUS 223.
- MUS 313 Advanced Electronic and Computer Music Techniques** (2,1,3) 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. PREREQ: MUS 312 or consent of instructor.
- MUS 324 Orchestration I** (3,0,3) Instrumentation and scoring for orchestral choirs and full orchestra. PREREQ: MUS 223 or consent of instructor.
- MUS 325 Form and Analysis** (3,0,3) Harmonic, contrapuntal, and formal procedure in works of major composers; techniques of musical analysis. Required for all music degrees that have a 300 level theory requirement. PREREQ: MUS 223 and MUS 225.
- MUS 328 Applied Composition III** (2 sem. hrs.) Private or semi private instruction in music composition. One hour lesson per week. Fees assessed according to contact hours. PREREQ: MUS 229 and junior standing.
- MUS 329 Applied Composition IV** (2 sem. hrs.) Continuation of MUS 328. Fees assessed according to contact hours. PREREQ: MUS 328.
- MUS 331 Keyboard Literature I** (2,0,2) Keyboard literature and its development from the renaissance to the early classical period; performance practices, interpretation, and styles. PREREQ: MUS 230231 or consent of instructor.
- MUS 332 Keyboard Literature II** (2,0,2) Keyboard literature and its development from the middle classical period to the present; performance practices, interpretation, and styles. PREREQ: MUS 331.
- MUS 333 Vocal Literature** (3,0,3) Solo song repertoire of western world from the troubadours to the present; style, interpretation, and program building. PREREQ: MUS 230-231 or consent of instructor.
- MUS 336 Choral Literature** (3,0,3) Choral literature from 1450 to the present; stylistic traits, types of compositions; aesthetic considerations. PREREQ: MUS 231 or consent of instructor.
- MUS 337 History of Music III: Mid 19th and 20th Centuries** (3,0,3) 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. PREREQ: MUS 230-231.
- MUS 340 General and Vocal Music in the Elementary School** (3,0,3) 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. PREREQ: consent of instructor.

**MUS 341 Instrumental Music in the Public Schools** (3,2,3) Organization, management, materials, and instruction techniques appropriate to teaching of instrumental music in public education; practicum laboratory experiences in local public schools. PREREQ: MUS 352 or consent of instructor.

**MUS 342 General and Choral Music in the Secondary School** (3,0,3) Organization and management of a choral/vocal program in grades 7-12; methods and materials for general music, theory, and music appreciation classes. PREREQ: MUS 352 or consent of instructor.

**MUS 343 Marching Band Methods** (2,1,3) Practical aspects of show charting, music selection, and marching band techniques and styles; organization, discipline, and arranging. Extra class observations will require several Friday evenings. For the prospective secondary band director. Fall. PREREQ: MUS 122-123.

**MUS 345 Keyboard Skills I** (0,2,1) Developing proficiency in functional keyboard skills; sight-reading, transposition, harmonization, playing by ear, and improvisation. PREREQ: consent of instructor.

**MUS 346 Keyboard Skills II** (0,2,1) Continued principles and techniques of sight reading, transposition, harmonization, playing by ear, and improvisation. PREREQ: MUS 345.

**MUS 347 Harpsichord for Pianists II** (2,3,2) Advanced technique; study of renaissance, baroque, and pre classical repertoire; performance practices; figured bass. Limit four per class. May be repeated for credit. PREREQ: consent of instructor.

**MUS 348 Piano Pedagogy I** (2,2,3) Preschool music programs; survey of philosophies and observation of teaching methods such as Suzuki, Orff, Dalcroze, Kodaly, Kindermusik, and Musikgarten. PREREQ: consent of instructor.

**MUS 349 Piano Pedagogy II** (2,2,3) 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. PREREQ: consent of instructor.

**MUS 352 Conducting I** (1,2,2) Introduction to the craft of conducting. Beat patterns, left hand, entrances, releases, dynamics, terminology, styles of articulation, and baton technique. Instrumental and choral music. PREREQ: MUS 223 or consent of instructor.

**MUS 353 Conducting II** (3,0,3) Continued refinement of skills developed in MUS 352; score study techniques, terminology, and transposition. PREREQ: MUS 352 or consent of instructor.

**MUS 368-389 Applied Music** (1-2 sem. hrs. each) Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. ½ hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours. PREREQ: placement test.

**MUS 397 Junior Recital** (0,0,0) 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. PREREQ: consent of instructor.

**MUS 399 Independent Study: Music** (1-3 sem. hrs.) Individual creative or research projects; projects, directed by members of the faculty, must be approved before registration. May be repeated for credit. PREREQ: consent of instructor.

**MUS 428 Applied Composition V** (2 sem. hrs.) Continuation of MUS 329. Fees assessed according to contact hours. PREREQ: MUS 329.

**MUS 429 Applied Composition VI** (2 sem. hrs.) Continuation of MUS 428. Fees assessed according to contact hours. PREREQ: MUS 428.

**MUS 446 Seminar in Vocal Pedagogy** (3,0,3) 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. PREREQ: consent of instructor.

**MUS 447 Seminar in Piano Pedagogy** (3,0,3) Techniques of major pedagogical philosophies; studies (études), methods, exercises, and piano literature as applied to development in piano instruction and performance. PREREQ: consent of instructor.

**MUS 448 Piano Pedagogy III** (2,2,3) 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. PREREQ: consent of instructor.

**MUS 449 Piano Pedagogy IV** (2,2,3) 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. PREREQ: consent of instructor.

**MUS 468-489 Applied Music** (1-2 sem. hrs. each) Private instruction in harpsichord, harp, voice, piano, piano accompanying, organ, guitar, and band, and orchestral instruments. Open to students majoring or minoring in music; to other students by permission of music chair. May be repeated for credit. ½ hr. contact = 1 semester hours; and 1 contact hour = 2 semester hours. Fees assessed according to contact hours. PREREQ: placement test.

**MUS 497 Senior Recital** (0,0,0) 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. PREREQ: consent of instructor.

**MUS 499 Independent Study: Music** (1-3 sem. hrs.) Individual creative or research projects; projects, directed by members of the faculty, must be approved before

### Nursing Registered Professional NRP

**NRP 275 Race, Gender, and Health Issues** (3,0,3) Influences of race and gender on health status, health care, and health professions; past and present social, political, and economic factors. *A general education course (race/gender)*. PREREQ: None.

**NRP 316L Evaluation of Clinical Performance** (0,12,4) 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. PREREQ: admission to BSN program. COREQ: NRP 317L and NRP 401.

**NRP 317L Decision Making in Nursing** (0,12,4) Demonstration of cognitive and critical thinking skills in making decisions in standardized clinical CAI situations; use of nursing process as a decision making framework. PREREQ: admission to BSN program. COREQ: NRP 316L and NRP 401.

**NRP 333 Integrative Health Therapies** (3,0,3) Theory, research, and risks and benefits of integrative health therapies. PREREQ: junior standing.

**NRP 399 Independent Study: Nursing** (1-3 sem. hrs.) 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. PREREQ: consent of instructor and program director prior to registration.

**NRP 401 Theories and Concepts of Professional Nursing** (2,0,2) 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. PREREQ: admission to BSN program. COREQ: NRP 316L and NRP 317L.

**NRP 410 Nursing Research** (3,0,3) 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. PREREQ or COREQ: NRP 401. PREREQ: MAT 205.

**NRP 411 Holistic Nursing Assessment (2,0,2)** Principles of holistic health assessment of existing and potential client problems with a view toward planning nursing care. PREREQ or COREQ: NRP 401 and NRP 410. COREQ: NRP 413L and NRP 415L.

**NRP 413L Nursing Assessment Laboratory (0,2,1)** Application of holistic health assessment techniques in the laboratory setting. COREQ: NRP 411 and NRP 415L.

**NRP 415L Nursing Assessment Practicum (0,4,2)** Application of nursing history and physical assessment techniques in formulating nursing diagnosis for individual clients in a variety of settings. COREQ: NRP 411 and NRP 413L.

**NRP 434 Theories in Nursing (3,0,3)** 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. PREREQ: NRP 401 and NRP 410.

**NRP 435 Introduction to Community Health Nursing (3,0,3)** 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 Community Health Practicum (0,12,6)** Clinical experience in a variety of community settings serving a diverse population and defined risk groups; teaching, screening, case finding, referral, and evaluation of community health services. COREQ: NRP 435.

**NRP 441 Nursing Leadership (3,0,3)** Nursing leadership concepts and functions in nursing environments; selected theories of leadership and management; collaboration for decision making and effecting change for experienced nurses. PREREQ: NRP 435 and NRP 435L. COREQ: NRP 441L.

**NRP 441L Nursing Leadership Practicum (0,12,6)** 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. PREREQ: NRP 435 and NRP 435L. PREREQ or COREQ: NRP 441.

**NRP 455 Professional and Legal Issues in Nursing Practice (3,0,3)** Emerging trends in nursing education and professional nursing practice; ethical and legal parameters of nursing practice. PREREQ: NRP 435L.

**NRP 509 Curriculum Development in Nursing (2,0,2)** 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 (2,0,2)** Principles of teaching, learning, and adult education; various nursing education setting -- classroom, clinical, staff development, and community -- and teaching methods associated with those settings; small and large group techniques described. Open to Registered Nurses only.

**NRP 511 Nursing Case Management I (2,0,2)** Historical development of nursing case management; relationship of nursing case management to health care system; differentiation of models of case management, and cost-effectiveness of nursing case management.

**NRP 512 Nursing Case Management II (2,0,2)** Role of the nurse case manager and the nurse case management process; legal and ethical issues; quality assurance and evaluation for nursing case management. PREREQ: NRP 511.

**NRP 513 Long-Term Care Regulations (2,0,2)** Federal and state regulation of long-term and extended care facilities; residents' rights; licensure and reimbursement; government and non-government oversight; liability for and quality in agency operations. Open to Registered Nurses only.

**NRP 514 Issues in Gerontology (2,0,2)** Issues of significance to nurses and health professionals responsible for care of older adults; aging theories; legal/ethical

issues, administration, evaluating learning theories, care and service delivery, environment, and common health problems of older adults. Open to Registered Nurses only.

**NRP 533 Integrative Health Therapies (3,0,3)** Theory, research, and risks and benefits of integrative health therapies.

## Nursing Baccalaureate

### NRS

**NRS 103 Introduction to Professional Nursing (1,0,1)** Basic concepts for the study of nursing; philosophy of nursing, professionalism, caring, communication, culture, critical thinking and spiritual aspects; personal time and stress management. Open to all students. PREREQ: none

**NRS 104 Nursing Care Concepts I (2,0,2)** Nursing process as a basis for nursing care; concepts and theories relevant to nursing care across the life span, scientific principles related to basic nursing care procedures. PREREQ: NUR 103, BIO 126, BIO 208/208L, PSY 100. COREQ: NUR 105, BIO 209/209L, PSY 220 or EDU 300.

**NRS 104L Skills Development Laboratory I (0,2,1)** Instruction in the campus laboratory for development of basic nursing skills through the use of computer assisted instruction, demonstration, simulations and supervised practice. COREQ: NRS 104, NRS 196.

**NRS 105 Pharmacology (2,0,2)** Utilization of pharmacological principles for nursing care; pharmacological classifications and physiological actions; dosage calculation and the procedures of drug administration. PREREQ: NRS 103, BIO 126, BIO 208/208L, PSY 100. COREQ: NRS 104/104L, NRS 196, BIO 209/209L, PSY 220 or EDU 300.

**NRS 196 Clinical Practicum I (0,4,1)** Application of basic concepts and theories for direct care of patients in community, acute and long term care facilities; performance of basic nursing skills supervised by faculty. COREQ: NRS 104/104L, NRS 105.

**NRS 204 Nursing Care Concepts II (4,0,4)** Concepts and theories needed to support adaptation of clients requiring multiple nursing interventions for commonly occurring alterations in health status. PREREQ: NUR 104/104L, NRS 196, NRS 105, BIO 209/209L, PSY 220 or EDU 300. COREQ: NRS 205, NRS 204L, NRS 296, CHE 115.

**NRS 204L Skills Development Laboratory II (0,2,1)** Instruction in the campus laboratory for development of nursing skills through the use of computer assisted instruction, demonstration, simulations and supervised practice. COREQ: NRS 204, NRS 205.

**NRS 205 Holistic Nursing Assessment (2,0,2)** Principles of assessment of existing potential client problems: physical condition, psychological status, developmental level, socio-cultural-economic history with the goal of planning nursing care. PREREQ/COREQ: NRS 104/104L, NRS 105, NRS 196.

**NRS 205L Holistic Nursing Assessment Lab (0,2,1)** Application of holistic health assessment techniques in the laboratory setting. PRE/COREQ: NRS 104/104L, NRS 105, NRS 196.

**NRS 206 Family Nursing: Care of Obstetric Client and Newborn (3,0,3)** Historical, cultural, spiritual, ethical, legal, developmental and biophysical data to provide basis for the nursing care in obstetric health settings. PREREQ: NRS 204/204L, NRS 205. COREQ: NRS 298, BIO 202.

**NRS 207 Family Nursing: Care of Pediatric Client (3,0,3)** Historical, cultural, spiritual, ethical, legal developmental and biophysical data to provide a basis for the nursing care in pediatric health settings.

**NRS 296 Clinical Practicum II (0,8,4)** Application of concepts and theories to nursing care for adult clients in acute care settings; complex situations requiring increased competence and critical thinking skills. PREREQ: NUR 104/104L, NRS 196, NRS 105, BIO 209/209L, PSY 220 or EDU 300. COREQ: NRS 205, NRS 205L, NRS 296, CHE 115/CHE 115L.



**NRS 297 Family Nursing Clinical: Obstetric and Newborn (0,4,2)** Application of concepts and theories to provide nursing care for obstetric and newborn clients.

**NRS 298 Family Nursing Clinical: Care of Pediatric Client (0,4,2)** Application of concepts and theories to provide nursing care for pediatric, obstetric and mental health clients; experiences in acute, long term and community settings. COREQ: NRS 206 and BIO 202.

**NRS 304 Nursing Specialties (6,0,6)** Concepts and theories to support care of clients requiring advanced nursing interventions in medical/surgical and mental health settings. PREREQ: NRS 204/204L, NRS 296, NRS 206, NRS 298, BIO 202, COREQ: NRS 396.

**NRS 306 Critical Care Concepts (3,0,3)** Theories and concepts for nursing practice in a critical care setting, economic and legal/ethical issues. PREREQ: NRS 304, NRS 325, NRS 332, NRS 396. COREQ: NRS 306L, NRS 398.

**NRS 321 Professional Issues (3,0,3)** Emerging trends in nursing education, professional nursing practice; ethical/legal parameters of nursing practice. PREREQ: NRS 206, NRS 298, BIO 202. COREQ: NRS 304, NRS 396.

**NRS 332 Theories in Nursing (3,0,3)** Study of the nature of theory development in nursing with an emphasis on the evolution of the science of nursing. Evaluation of selected nursing theories as they relate to professional nursing practice. PREREQ: NRS 206, NRS 298, BIO 202. COREQ: NRS 304, NRS 396.

**NRS 396 Clinical Practicum III (0,8,4)** Application of concepts and theories to support care of clients requiring advanced nursing interventions in medical/surgical and mental health settings. Students will complete rotations in each specialty area. COREQ: NRS 304.

**NRS 398 Role Transition Practicum (0,15,5)** Clinical practice for role of professional nurse in a supportive environment; opportunities to manage groups of patients, increase clinical competence; knowledge of issues affecting healthcare/healthcare professionals. PREREQ: NRS 304, NRS 325, NRS 332, NRS 396. COREQ: NRS 306/306L.

**NRS 404 Introduction to Community Health Nursing (3,0,3)** 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. COREQ: NRS 496, NRS 421.

**NRS 406 Nursing Leadership (4,0,4)** Nursing leadership concepts and functions of leadership in nursing environments; selected theories of leadership and management; collaboration for decision-making and effecting change. COREQ: NRS 498.

**NRS 413 Aging in Today's Society (1,0,1)** 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. PREREQ: None

**NRS 415 Nursing Informatics (3,0,3)** Acquisition and application of knowledge and skills from information systems and computer technology; utilization of computers in nursing practice, education and research.

**NRS 421 Nursing Research (3,0,3)** Overview of the research process in nursing; historical development of nursing research; role of research in scientific advancement of nursing; development of ability to critique clinical nursing research studies. PREREQ: or COREQ: NRP 401; PREREQ: MAT 205.

**NRS 496 Community Health Practicum (0,8,4)** Variety of community agencies serving a diversity of clients and defined risk groups; teaching, screening, case finding, and referral, evaluation of community health services. COREQ: NRS 404, NRS 421.

**NRS 498 Nursing Leadership Practicum (0,8,4)** Integration of didactic content in a practice setting; clinical experience in selected health care agencies, in leadership role. PREREQ: NRS 404, NRS 496, NRS 421. COREQ: NRS 406.

## Nursing NUR

**NUR 110 Nursing as a Career (1,0,1)** Introduction to nursing as a career; health-care facilities; educational pathways for nursing; roles in nursing: positive and negative aspects of the profession. Not open to LPN's, or those currently enrolled in other NUR courses. PREREQ: none.

**NUR 125 Selected Topics in Nursing (1,1,2)** Assisting the licensed practical nurse in preparing for the Advanced Placement Examination for first level nursing courses; the nursing process, dosage calculation, and technical skills; overview of NUR 130, NUR 132L, and NUR 133L. Open only to LPN's seeking advanced placement. PREREQ: BIO 208-208L and PSY 100. COREQ: BIO 209/209L and either EDU 300 or PSY 220.

**NUR 126 Selected Topics in Nursing (1,1,2)** Continuation of NUR125 with emphasis on concepts and theories relevant to maternal/child nursing. Open only to LPN's seeking advanced placement. PREREQ or COREQ: NUR 125, BIO 209-209L, and either EDU 300 or PSY 200.

**NUR 130 Concepts Essential to Nursing (4,0,4)** Introduction to nursing process, basic concepts, and theories relevant to the administration of nursing care to clients with common health problems; care of elderly. COREQ: NUR132L and NUR 133L. PREREQ or COREQ: BIO 208-208L and PSY 100.

**NUR 132L Clinical Practicum (0,8,4)** Application of concepts and theories basic to the care of clients in hospitals and nursing home settings; performance of basic nursing skills under supervision of nursing faculty. COREQ: NUR 130 and NUR 133L.

**NUR 133L Skills Development Laboratory I (0,2,1)** Development of basic nursing skills; demonstration and supervised practice in campus laboratory; use of simulations and audiovisual materials. COREQ: NUR 130 and NUR 132L.

**NUR 150 Nursing across the Lifespan I (4,0,4)** Concepts and theories relevant to nursing care of clients in obstetrical, pediatric, and medical surgical hospital units; incorporation of nursing process; introduction to crisis intervention. PREREQ: NUR 130, NUR 131L, and NUR 133L. COREQ: NUR152L. PREREQ or COREQ: BIO 209-209L, and either EDU 300 or PSY 220.

**NUR 152L Clinical Practicum (0,8,4)** Application of concepts and theories relevant to care of clients in the maternity, pediatric, and medical surgical hospital units; performance of nursing care and skills under supervision of nursing faculty. COREQ: NUR 150 and NUR 153L.

**NUR 153L Nursing Concepts and Skills Development Laboratory (0,2,1)** Development of nursing concepts and skills; use of independent study, simulations, and audio visual materials; demonstration and supervised practice in campus laboratory. COREQ: NUR 150 and NUR 152L.

**NUR 240 Nursing across the Lifespan II (6,0,6)** Concepts and theories needed to support adaptation of individuals requiring multiple nursing interventions for physical interference with health; all age groups included. PREREQ: NUR 150, NUR 152L, NUR 153L, BIO209-209L, and either EDU 300 or PSY 220. COREQ: NUR 243L. PREREQ or COREQ: CHE 115.

**NUR 243L Clinical Practicum (0,8,4)** Application of concepts and theories to care of clients in a variety of care settings; complex situations requiring increased competence in nursing care. COREQ: NUR 240.

**NUR 260 Nursing across the Lifespan III (6,0,6)** Concepts and theories needed to support adaptation of clients requiring advanced nursing interventions for physical and emotional interference with health; principles necessary for functioning as a health team member in secondary care settings; legal, ethical, and professional issues. PREREQ: NUR 230, NUR 233L, and CHE 115. COREQ: NUR253L. PREREQ or COREQ: BIO 202-202L.

**NUR 263L Clinical Practicum (0,12,4)** Application of concepts and theories to care for clients in a variety of care settings; complex situations requiring increased competence in nursing care; management of nursing care for 2-3 clients; collaboration with other members of health team. COREQ: NUR 260.

**NUR 299 Independent Study: Nursing (1-3 sem. hrs.)** Independent survey of current literature in nursing; written report on selected topic. Written agreement

between faculty and student with program director approval prior to registration. Agreement to include purpose, objectives, activities, time frame, and evaluation procedure. Not intended as a substitute for any course offered on a regular basis. PREREQ: consent of instructor and program director.

### Organizational Systems Technology/Business Education OST

**OST 300 Organizational and End-User Systems Concepts (3,0,3)** An overview of organizational end-user systems technologies, business processes, and worker performance. This course emphasizes methods to plan for and implement information technologies in the workplace. Advances in information systems hardware, software and appropriate applications are discussed. Emphasis is on understanding end-user needs and how to select systems to address them. Work-flow analysis, work (re)design, organizational change, systems implementation, and management issues are covered. PREREQ: OST 111 or consent of instructor.

**OST 310 Intercultural Business Communication (3,0,3)** Written, oral, and non-verbal communication techniques in diverse domestic and multinational high-tech work environments for effective communication among employees and with customers and clients. PREREQ: Junior classification or consent of instructor.

**OST 311 Written Communication Systems (3,0,3)** Techniques, principles, and software for effective written business and technical communication essential to end-user information systems; letters, memoranda, e-mail; analytical, technical and informational reports; survey instruments; graphic aids and design; systems documentation; and employment documents. Recommended for students in technical fields. PREREQ: ENG 101.

**OST 317 Database Technologies (1,2,3)** Introduction, application and advanced features/functions of Microsoft Access utilizing a hands-on approach. Application of database features using cases of field-based projects for the organization and end-user environment. After completion of this course, student may be prepared to take the current MOUS exam for Microsoft Access. Outside laboratory time required. PREREQ: Junior standing or consent of instructor.

**OST 320 Communications Technologies (3,0,3)** A technical overview of electronic communication systems in organizations; network architectures, local area networks, communication media, hardware/software; management issues and practical applications; application of electronic communication systems to facilitate information interchange through voice, data, text and image; application of proven methodologies through case or field-based projects. PREREQ: OST 300 or consent of instructor.

**OST 323 Systems Planning and Implementation (3,0,3)** Planning for systems development and employee/workgroup interactions; needs assessment, productivity measures, and problem resolution within context of end user support systems; systems development and implementation processes, tactics, and strategies; application of proven methodologies through case or field-based projects. PREREQ: OST 300 or consent of instructor.

**OST 324 Operating Systems Technologies (1,2,3)** Computer operating systems including organizing your files, personalizing your computer software environment, bringing the World Wide Web to your desktop, searching for information, working with graphics and configuring/managing/maintaining the hard/software systems utilizing a hands-on approach. Application of proven methodologies through case or field-based projects. Outside lab time required. PREREQ: OST 300 or consent of instructor.

**OST 325 Electronic Publishing/Presentation Technologies (1,2,3)** Introduction, application, and advanced features/functions of Page Maker and Microsoft PowerPoint utilizing a hands-on approach. Application of desktop publishing and electronic presentation features using cases or field based projects for the organization and end-user environment. After completion of this course, student may be prepared to take the current MOUS exam for Microsoft PowerPoint. Outside laboratory time required. PREREQ: Junior standing or consent of instructor.

**OST 326 End-User Technology Solutions (3,0,3)** This course provides a comprehensive overview of technology solutions for the organizational and end-user environment, including software packages, operating systems, and hardware considerations. Students will analyze, select and evaluate computer software and hardware to address business needs. The course emphasizes the development of

business applications using software packages (word processing, spreadsheets, databases, presentation graphics, project management, and desktop publishing and their accompanying documentation and help-screens). PREREQ: OST 300, OST 317, and OST 325 or consent of instructor.

**OST 330 The Internet: Concepts and Techniques for Work in Technology Related Fields (1,2,3)** A distance learning course in the use of the Internet to conduct in-depth research, problem solving, and projects management in Technology Related fields; Internet applications, problem solving strategies, technical project management tools and control techniques, and team building; application of proven methodologies through case or field-based projects. Students must have their own computers (or access to computers with modems and internet service provider). PREREQ: Junior standing or consent of instructor.

**OST 394 Topics: Applied Technology Systems (3,0,3)** Advanced concepts and issues relative to organizational systems. Content based upon needs and interests of students, keeping in mind current technological advancements and systems management concerns. PREREQ: consent of adviser.

**OST 399 Independent Studies: Applied Technology Systems (1-3,0,1-3)** Individual or group study of specific components of end user systems. For advanced students seeking to study selected problems and issues. PREREQ: consent of OST adviser.

**OST 421 Case Studies in Applied Technology Systems (3,0,3)** A capstone course that integrates through case studies or other comprehensive capstone experience and application of concepts, theories, and skills associated with end-user support systems as they contribute to the solution of business problems/processes and the development or redesign of the solution of business problems/processes. The course is normally taken in the student's last term before graduation. PREREQ: OST 323 and OST 326.

**OST 422 Designing and Managing Organizational Training (3,0,3)** Application of theories of learning and instructional design to training of employees in high-tech work environments: adult learning theory; needs assessment; instructional design and strategy; technology for traditional and web-based delivery systems; implementation, evaluation, and management of training. PREREQ: junior standing or consent of instructor.

### Public Administration PAD

**PAD 300 Introduction to Public Administration (3,0,3)** Governmental administration, primarily U.S.; development of the discipline and its methodology; organization, personnel, and budgeting problems; administrative control and accountability. PREREQ: PSC 100 or PSC 101 or consent of instructor.

**PAD 401 Human Resource Management (3,0,3)** 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. PREREQ: 3 semester hours of introductory public administration courses or consent of instructor.

**PAD 411 Budgeting Techniques and Applications (3,0,3)** Treatment of budgetary techniques and application; program budgeting, zero-base budgeting; financial planning and revenue estimation techniques; tax and expenditure types; debt financing; financial reporting. PREREQ: Introductory accounting/economics class or consent of instructor.

**PAD 412 Administrative Law (3,0,3)** Nature of the powers vested in administrative agencies; problems of administrative procedure; methods and extent of judicial control over administrative action. PREREQ: 3 semester hours of introductory public administration courses or consent of instructor.

**PAD 420 Managing the Not-For-Profit Organization (3,0,3)** 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. PREREQ: 3 semester hours of introductory public administration courses or consent of instructor.

**PAD 455 Urban Administration (3,0,3)** 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. PREREQ: 3 semester hours of introductory public administration or political science courses or consent of instructor.

**PAD 460 Planning and Community Development (3,0,3)** 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. PREREQ: 3 semesters of introductory public administration or political science courses or consent of instructor.

**PAD 475 Local Government Management (3,0,3)** Senior seminar on politics and administration of local government, especially in Kentucky and Ohio. May be repeated twice when topics differ.

**PAD 494 Topics: Public Administration (3,0,3)** Topics vary from semester to semester. See Schedule of Classes for topic and prerequisites. May be repeated. PREREQ: 3 semester hours of introductory public administration courses or consent of instructor.

**PAD 496 Internship: Public Administration (3,0,3)** Supervised work experience and related seminar requirements; where possible, a directed research project may be substituted. Required for seniors majoring in public administration. PREREQ: consent of instructor prior to registration.

**PAD 499 Readings: Public Administration (3,0,3)** Specialized topics in public administration covered through intensive readings and/or field projects; at the direction of a specific instructor. May be repeated once as projects vary. May be used in any area of concentration. PREREQ: 3 semester hours of public administration courses or consent of instructor.

### Physical Education

#### PHE

**PHE 102-122 Beginning Level Activities (0,2,1)** Development of skills, knowledge, strategies, and attitudes in specific Beginning level activities. For students unskilled in the activity.

**PHE 102 Beginning Archery (0,2,1)**

**PHE 104 Beginning Badminton (0,2,1)**

**PHE 106 Beginning Bowling (0,2,1)**

**PHE 108 Beginning Conditioning (0,2,1)**

**PHE 110 Beginning Golf (0,2,1)**

**PHE 112 Beginning Gymnastics (0,2,1)**

**PHE 114 Beginning Karate (0,2,1)**

**PHE 116 Beginning Racquetball (0,2,1)**

**PHE 118 Beginning Swimming (0,2,1)**

**PHE 120 Beginning Tennis (0,2,1)**

**PHE 122 Beginning Volleyball (0,2,1)**

**PHE 125 Introduction to Physical Education (3,0,3)** Overview of the profession; philosophy, history, and scientific areas; examination of career opportunities. Fall/Spring.

**PHE 200 Concepts of Lifetime Fitness (1,2,2)** Health related problems associated with a modern sedentary society; benefits of regular exercise; individual psychomotor and physiological developmental patterns. Fall/Spring/Summer.

**PHE 208-220 Intermediate Level Activities (0,6,3)** 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 208 Intermediate Conditioning (0,2,1)**

**PHE 209 Intermediate Aerobics (0,2,1)**

**PHE 210 Intermediate Golf (0,2,1)**

**PHE 214 Intermediate Karate (0,2,1)**

**PHE 218 Intermediate Swimming (0,2,1)**

**PHE 220 Intermediate Tennis (0,2,1)**

**PHE 230 Motor Skill and Fitness Activities for Children (1,2,3)** Development of skills, knowledge, and strategies in activities developmentally appropriate for elementary physical education programs; movement concepts, fundamental motor skills, body management, rhythmic activities and dance, game skills, and physical fitness concepts and development activities. Spring

**PHE 240 Performance and Analysis of Sport Skills I (0,4,2)** Development of skill performance and the ability to analyze skill performance critically; knowledge, rules, and progressions for developing motor skills; activities include soccer, volleyball, and archery. For students majoring or minoring in physical education; for others, consent of instructor required. Fall/Spring

**PHE 241 Performance and Analysis of Sport Skills II (0,4,2)** Development of skill performance and the ability to analyze skill performance critically; knowledge, rules, strategies, and progressions for developing motor skills; activities include golf, basketball, and softball. For students majoring or minoring in physical education; for others, consent of instructor required. Fall/Spring

**PHE 242 Performance and Analysis of Sport Skills III (0,4,2)** Development of motor skill performance and the ability to analyze skill performance critically; knowledge, rules, and progression for developing motor skills; activities include track and field, badminton, and tennis. For students majoring and minoring in physical education; for others, consent of instructor required. Fall/Spring

**PHE 243 Gymnastics for Teachers (0,4,2)** Development of the ability to perform, spot, and critically analyze the skill performance of others and to identify appropriate progressions and learning activities to safely and successfully teach gymnastics (tumbling and apparatus) in a K-12 school recreational setting. For students majoring in physical education; for others, consent of instructor required. Fall

**PHE 244 Swimming and Aquatic Activities (0,2,1)** Knowledge and skills in basic water safety awareness; development of basic swimming strokes and other entry level skills for lifesaving; aquatic games and aerobic water activities. For students majoring or minoring in physical education; for others, consent of instructor required. Spring

**PHE 245 Officiating Basketball (1,1,1)** Rules and techniques for officiating sports contacts.

**PHE 250 Physical Education for Elementary Teachers (2,0,2)** Content and skills for developing, implementing, and evaluating physical education in the P-5 classroom. PREREQ: admission to P-5 program or consent of instructor. Fall/Summer/Spring

**PHE 280 Introduction to Athletic Training (3,0,3)** 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.

**PHE 299 Special Topics in Physical Education (1-3 sem. hrs.)** 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. PREREQ: sophomore standing and/or consent of instructor.

**PHE 315 Sports Medicine I (3,0,3)** Introduction to sports medicine; prevention, treatment, and rehabilitation of sports injuries; ethical standards, conditioning, taping, preliminary diagnoses; rehabilitative modalities. PREREQ: HEA/PHE 135 or first aid certification. Fall

**PHE 316 Sports Medicine II** (3,0,3) Continuation of PHE 315; advanced training in preventing, diagnosing, and treating athletic injuries; relationships with coaching, medical, and physical therapy personnel. PREREQ: PHE 315. Spring

**PHE 318 Lifeguarding** (1,2,2) 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. PREREQ: swimming proficiency test given during first class meeting. Spring

**PHE 319 Water Safety Instructor** (2,2,3) 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. PREREQ: must pass American Red Cross Level 4 swimming skills test. Fall/Spring

**PHE 330 Motor Development** (3,1,3) 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. PREREQ: Junior standing. Fall/Spring

**PHE 360 Statistics and Measurement in Physical Education** (3,0,3) Designed to provide knowledge and practical experience in the study of statistical techniques, motor ability tests, motor fitness tests, physical fitness tests, and skill tests applicable to physical education. Fall. PREREQ: MAT 099 or acceptable placement score. Fall/Spring

**PHE 370 Biomechanics** (3,0,3) Mechanics of human motion with respect to performance in sport activities and movement analysis. Spring. PREREQ: BIO 208. Fall/Spring

**PHE 385 Sociological and Psychological Dimensions of Sport and Physical Activity** (3,0,3) 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. PREREQ: PHE 125. Fall

**PHE 390 Practicum in Physical Education** (0,2,1) Practical teaching experiences under guidance of qualified instructors. Students observe and assist faculty instructors in one or more basic service courses on campus. Fall/Spring

**PHE 391 Practicum in Recreation** (0,10,3) Practical field experiences for students in recreation settings, both on campus and in the community. Fall/Spring

**PHE 392 Practicum in Fitness Assessment** (0,10,3) Practical experiences in assessing physical fitness, both on campus and in the community. Fall/Spring

**PHE 430 Curriculum and Methods for Teaching Elementary Physical Education** (2,1,3) Development of knowledge, teaching skills, and strategies necessary for effective teaching of physical education in grades K-5. PREREQ: PHE 230, PHE 330, EDU 300, and admission to teacher education program. COREQ: PHE 490. Fall

**PHE 440 Physiology of Exercise** (3,0,3) Response of the body to muscular activity; structure and function of skeletal muscles; energy sources and oxygen requirements for muscular activity. Fall. PREREQ: BIO 208. Fall/Spring

**PHE 450 Organization and Administration of Physical Education, Recreation, and Athletics** (3,0,3) Theory, policies, and procedures for administering physical education, recreation, and athletic programs in the school and community; program development, budgeting, equipment, facilities, personnel. Fall.

**PHE 465 Exercise Prescription** (3,0,3) Basic principles for prescribing activities to improve physical fitness and/or athletic performance. PREREQ: PHE 360 and PHE 440. Fall

**PHE 480 Curriculum and Methods for Teaching Middle School and Secondary Physical Education** (2,1,3) Development of knowledge, teaching skills, and strategies necessary for effective teaching of physical education in the middle and secondary school. PREREQ: PHE 200, PHE 240, PHE 241, PHE 242, and admission to teacher education program. COREQ: PHE 491. Spring

**PHE 490 Practicum in Teaching Elementary Physical Education** (0,1,1) Supervised practice teaching experience in an elementary school setting. Integrated with methods course. COREQ: PHE 430. Fall

**PHE 491 Practicum in Teaching Middle School and Secondary Physical Education** (0,1,1) Supervised practice teaching experience in a middle school and/or high school setting. Integrated with methods course. COREQ: PHE 480. Spring

**PHE 496 Field Experience in Recreation/Fitness** (0,15,5) Full semester field experience in community setting; experience in planning, observation, and implementation of recreation or fitness programs under supervision of qualified professional. PREREQ: consent of director of physical education programs. COREQ: PHE 498. Fall/Spring

**PHE 498 Senior Seminar in Recreation/Fitness** (1,0,1) Integration of theoretical foundations with field experience in recreation/fitness; forum for inquiry into programming, teaching, professional opportunities, ethical a healthy lifestyle. COREQ: PHE 496. Fall/Spring

**PHE 499 Special Topic in Physical Education** (1-3 sem. hrs.) 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. PREREQ: junior or senior standing and/or consent of instructor.

**PHE 500 Adapted Physical Education** (3,0,3) Adaptation of physical education programs for temporarily or permanently handicapped persons. Fall/Spring

**PHE 545 Sport in Modern America** (3,0,3) Trends and problems in organized athletic competition in the context of contemporary society. Summer

**PHE 595 Scientific Foundations of Coaching** (3,0,3) Scientifically based principles applied to effective athletic coaching; exercise physiology, biomechanics, kinesiology, and sport psychology. Summer

**PHE 599 Selected Problems in Physical Education** (1-3 sem. hrs.) Individual or group study of a topic of current interest in physical education. Topic selected by student with approval of instructor.

## Philosophy

### PHI

**PHI 150 Introduction to Philosophy** (3,0,3) Application of philosophical thinking to perennial human concerns; human nature and the human condition, the good life, the good society. *A general education course (humanities).*

**PHI 155 Introduction to Ethics** (3,0,3) Moral dimension of human experience; development of a rational approach to ethical inquiry; major value questions and ethical issues. *A general education course (humanities).*

**PHI 160 World Religions** (3,0,3) A philosophical and comparative analysis of the major world religions: Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, and Islam. *A general education course (humanities or non-western perspective).*

**PHI 165 Introduction to Logic** (3,0,3) 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. *A general education course (humanities).*

**PHI 170 Philosophy and Sexuality** (3,0,3) Differing analyses of sexuality, love, and friendship, including historical perspectives such as Greek, Christian, Marxist, Freudian, Feminist, Existentialist, and Contemporary Analytic; contemporary discussions concerning sexism, male chauvinism, marriage, polygamy, homosexuality, lesbianism, androgyny, pornography, and prostitution. *A general education course (humanities).*

**PHI 180 History of Classical and Medieval Philosophy** (3,0,3) 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. *A general education course (history or humanities/).*

**PHI 185 History of Modern and Contemporary Philosophy** (3,0,3) 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. *A general education course (history or humanities).*

**PHI 201 Ideas in Philosophy** (3,0,3) Issues and/or works in philosophy revolving around a selected theme or concern. May be repeated as topics vary. *A general education course (humanities).*

**PHI 210 Ethics of Information Technology** (3,0,3) Ethical issues faced by computing professionals including those related to computing in the workplace, security, crime, privacy, property rights, risk, liability, and the internet. *A general education course (humanities)* PREREQ: None.

**PHI 220 Health Care Ethics** (3,0,3) Ethical decision making and problems of contemporary health care; 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. *A general education course (humanities).*

**PHI 230 Environment, Technology, and Human Values** (3,0,3) Technology and human nature; ethical implications of present and future technological developments; application of ethical frameworks to the problems of human beings in the future; ecological and environmental values; western and non-western approaches.

**PHI 240 Philosophy and the Arts** (3,0,3) Differing theories of the nature and importance of art in the history of aesthetics in regard to the artist, to the audience, to society; form and content within various media; the art world; artistic creativity and truth; imagination, emotion, unconscious, intellect and the artistic process; craft and art; feminist and Marxist critiques of art. *A general education course (humanities)*

**PHI 250 Eastern Philosophy** (3,0,3) 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. *A general education course (humanities or non-western perspective).*

**PHI 301 Philosophy in Literature** (3,0,3) Philosophical issues in literature considered historically and/or thematically; reality, nature, self, creativity, language, knowledge, community, good and evil, freedom, and God.

**PHI 302 Ethics and Science** (3,0,3) Ethical, legal, and public policy issues stemming from scientific research, including medical, psychological, and sociological; topics may include animal and human experimentation, informed consent, privacy, confidentiality, government regulations, freedom of inquiry and censorship, the moral responsibility of scientists, the implications of scientific research for ethics. PREREQ: 3 semester hours in philosophy or consent of instructor.

**PHI 303 Philosophy and Psychotherapy** (3,0,3) Philosophical frameworks of underlying assumptions about reality, self, time, meaning, rationality, imagination, emotion, society, unconsciousness, embodiment, and therapeutic process in various psychotherapeutic modalities, such as Freudian, Jungian, Medical Model, Existential, Logotherapeutic, Gestalt, and Behaviorist; ethical issues of practice; social issues. PREREQ: 3 semester hours of philosophy or consent of instructor.

**PHI 305 Existentialism** (3,0,3) 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** (3,0,3) Philosophical issues in science; the nature of scientific explanation; science and pseudoscience; growth of scientific knowledge; Kuhn, Popper, Feyerabend, and others. PREREQ: 3 semester hours in philosophy or science or consent of instructor.

**PHI 307 Business Ethics** (3,0,3) 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. PREREQ: 3 semester hours in philosophy or consent of instructor.

**PHI 311 Philosophy of Women** (3,0,3) Ideas of and about women in the history of philosophy; perennial issues that have emerged from classical times to the present. PREREQ: 3 semester hours in philosophy or women's studies or consent of instructor.

**PHI 315 Knowledge and Reality** (3,0,3) 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. PREREQ: 3 semester hours in philosophy or consent of instructor.

**PHI 320 Social and Political Philosophy** (3,0,3) 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** (3,0,3) 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. PREREQ: 3 semester hours in philosophy or consent of instructor.

**PHI 325 Philosophy of Nonviolence** (3,0,3) Reflective and evaluative study of the theory and practice of nonviolence. Topics will include the origins of nonviolence in both Western and Eastern thought; modern philosophers of nonviolence--Tolstoy, Gandhi, and King; civil disobedience; types of pacifism; women and nonviolence; recent examples of nonviolent action. PREREQ: 3 semester hours in philosophy or consent of instructor.

**PHI 330 Philosophy and Law** (3,0,3) 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. PREREQ: ENG 291 or equivalent. *A general education course (humanities).*

**PHI 335 Great Traditions in Ethics** (3,0,3) 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). PREREQ: 3 semester hours in philosophy or consent of instructor.

**PHI 340 Contemporary Anglo-American Philosophy** (3,0,3) Central issues and themes in 20th century Anglo-American philosophy, Russell, Wittgenstein, Quine, and others; language, truth and meaning, free will and determinism, and relation of mind and body. PREREQ: 3 semester hours in philosophy or consent of instructor.

**PHI 350 Philosophy of Religion** (3,0,3) 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. PREREQ: ENG 291 or equivalent. *A general education course (humanities).*

**PHI 355 Socrates & Plato** (3,0,3) 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. PREREQ: 3 semester hours in philosophy.

**PHI 370 Ethics and the Nursing Profession** (3,0,3) Ethical, legal, and social ramifications regarding the nurse's role and nursing's professional codes; moral and legal dilemmas of the nurse in relation to the patient, to the institution, to other health care providers, and to personal moral and religious concerns. PREREQ: PHI 220

**PHI 394 Topics: Philosophy** (3,0,3) 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. PREREQ: 3 semester hours in philosophy.

**PHI 396 Applied Philosophy Internship** (2,5,3) 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. PREREQ: 6 semester hours in philosophy and consent of instructor.

**PHI 494 Seminar: Philosophy** (3,0,3) 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. PREREQ: 6 semester hours in philosophy or consent of instructor.

**PHI 499 Independent Study** (1-3 sem. hrs.) Individually supervised readings and study of some philosophical work, problem, or tradition. May be repeated as topics vary, but no more than twice. PREREQ: 6 semester hours in philosophy and consent of instructor.

## Physics

### PHY

**PHY 100 Science, Engineering, and Design** (1,0,1) 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 110 Introduction to Physics with Laboratory** (3,2,4) Conceptual physics for non-science majors. Using guided inquiry activities to teach basic principles and their applications. Topics chosen from among: nature of physics as a science, mechanics, wave motion, light, heat, electricity, and the atom. Assumes knowledge of elementary algebra. *A general education course (natural sciences)*. PREREQ: MAH 099 or equivalent.

**PHY 150 Current Topics in Physics** (3,0,3) Directed projects, readings, and discussion for students interested in physics as a major or a minor. Does not meet general education requirement in natural sciences.

**PHY 211 General Physics with Laboratory I** (4,2,5) Non-calculus introduction to classical physics using guided inquiry activities. Topics include kinematics, forces and Newton's Laws of Motion, circular motion, work and energy, momentum, Rotational motion, static equilibrium, and fluids. Assumes knowledge of algebra and basic trigonometry. *A general education course (natural sciences)*. PREREQ: One semester of college-level mathematics or equivalent placement.

**PHY 213 General Physics with Laboratory II** (4,2,5) Non-calculus introduction to classical physics using guided inquiry activities. Continuation of PHY 211. topics include oscillations, waves and sound, electric forces and fields, DC circuits, magnetic forces and fields, AC circuits, geometrical optics, and physical optics. *A general education course (natural sciences)*. PREREQ: PHY 211.

**PHY 220 University Physics with Laboratory I** (4,2,5) Calculus based introduction to classical mechanics using guided inquiry activities. Techniques for data acquisition and analysis. Topics include kinematics, dynamics, Newton's Laws, work, energy, momentum, conservation principles, rotational motion, equilibrium and oscillations. *A general education course (natural sciences)*. PREREQ or COREQ: MAT 120 or MAT 121.

**PHY 222 University Physics with Laboratory II** (4,2,5) Calculus based introduction to classical electromagnetic theory using guided inquiry activities. Continuation of PHY 220. Topics include Coulomb's Law, Gauss's Law, electric potential, electric energy storage, DC and AC circuits, magnetism, inductance, and geometric optics. *A general education course (natural sciences)*. PREREQ or COREQ: MAT 220 or MAT 221.

**PHY 294 Topics: Physics** (1-3 sem. hrs.) Special topics in physics. Repeatable for a maximum of 12 semester hours. PREREQ: consent of instructor and consent of department chair.

**PHY 300 Advanced Physics Laboratory** (0,4,2) Advanced experiments in mechanics, thermodynamics, optics, electricity, magnetism, and atomic and nuclear physics. May be repeated to a maximum of 8 semester hours. PREREQ: PHY 308 or consent of instructor.

**PHY 304 Electronics and Circuit Analysis with Laboratory** (3,2,4) Electronic components and devices; DC and AC circuit analysis; analog electronics. PREREQ: PHY 222 or consent of instructor.

**PHY 305 Statics** (3,0,3) 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. PREREQ: PHY 211 or PHY 220 and MAT 220.

**PHY 308 Modern Physics Ideas with Laboratory** (3,2,4) Waves, interference, diffraction, standing waves, resonance, sound, light, early quantum theories, photoelectric effect, Millikan oil-drop experiment, wave-particle duality, Bohr Model of the atom, Heisenberg's Uncertainty Principle, concept of wave function, Einstein's special relativity and radioactivity. PREREQ: PHY 213 or PHY 222.

**PHY 310 Dynamics** (3,0,3) Particle dynamics in one, two, and three dimensions; applications of mathematics to mechanical systems; theory of small oscillations; rigid body dynamics. PREREQ: PHY 220 and MAT 325.

**PHY 315 Introduction to Astrophysics** (3,0,3) Quantitative application of physical principles to subjects of astronomical interest; orbits, planetary atmosphere escape, interactions of radiation with matter, analysis of stellar atmospheres, and evolution and origin of elements. Same as AST 315. PREREQ: PHY 222 and MAT 120.

**PHY 320 Physical Optics** (3,0,3) Nature of light; interference; diffraction; polarization. PREREQ: PHY 222 and MAT 220.

**PHY 330 Mathematical Physics** (3,0,3) Fourier series; orthogonal expansions; eigenvalue problems; boundary value problems in ordinary and partial differential equations. Same as MAT 330. PREREQ: MAT 225 and MAT 325.

**PHY 340 Digital Microcomputer Electronics for Scientific Application with Laboratory I** (3,2,4) Introduction to AC circuits, solid state devices, digital integrated circuits, Boolean logic, logic gates, combinational and sequential logic timing analysis; memories; A/D and D/A conversion with applications to interfacing scientific equipment. PREREQ: PHY 213 or PHY 222 and one of CSC 160, CSC 200, CSC 220, or CSC 260.

**PHY 341 Digital and Microcomputer Electronics for Scientific Applications with Laboratory II** (3,2,4) Microcomputer architecture, instruction sets, and machine language programming; interfacing techniques including interrupts, I/O ports, and PIA's; dedicated microcomputer applications; data acquisition and control of physical systems. PREREQ: CSC 340 or PHY 304 or 340 or consent of instructor.

**PHY 360 Thermodynamics** (3,0,3) The laws of thermodynamics applied to closed systems, open systems, power cycles and refrigeration cycles; extensive use of tables and graphs of thermodynamic properties. PREREQ: PHY 220 and MAT 320.

**PHY 361 Applications of Modern Physics** (3,0,3) Quantum theories, Schrodinger's equation, wave functions in potential wells, tunneling, quantum mechanics in three dimensions. Selected applications of quantum theories and relativity to atomic, molecular and nuclear structure, condensed matter, cosmology and particle physics. PREREQ: PHY 308 and MAT 325.

**PHY 392 Directed Research: Physics** (1-3 sem. hrs.) 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. PREREQ: junior standing or consent of instructor.

**PHY 394 Topics: Physics** (1-3 sem. hrs.) In-depth study of specialized topics in physics. May be repeated for credit up to 9 sem. hours when topic varies. Offered on demand. PREREQ: consent of instructor.

**PHY 397 Special Projects: Physics** (1-3 sem. hrs.) 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. PREREQ: consent of supervisor.

**PHY 399 Readings: Physics** (1-3 sem. hrs.) Current literature. Repeatable for a maximum of 6 semester hours. PREREQ: consent of instructor.

**PHY 410 Electromagnetic Theory** (4,0,4) Development of Maxwell's equations; their application to electrostatics, magnetostatics, and electromagnetic radiation. PREREQ: PHY 222, MAT 320, and MAT 325.

**PHY 420 Advanced Modern Physics** (3,0,3) Quantum statistics, low temperature physics, liquid helium, band theory of solids, superconductivity, molecular structure and spectra, nuclear structure and reactions, and elementary particle physics. PREREQ: PHY 361 or consent of instructor.

**PHY 460 Quantum Mechanics** (3,0,3) Principles of quantum mechanics, the hydrogen atom, variational methods, and simple perturbation theory. Same as CHE 560. PREREQ: PHY361 or CHE 361.

**PHY 492 Undergraduate Research: Physics** (1-3 sem. hrs.) 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. PREREQ: 8 semester hours of 300-level physics courses or above and consent of supervisor.

### Public Relations

#### PRE

**PRE 296 Public Relations Practicum** (0,1,1) Academically supervised and evaluated professional experience in public relations on or off campus. Repeatable for up to 6 semester hours of practicum applicable toward the major in public relations. PREREQ: JOU 130, PRE 375, PRE 376, or consent of instructor.

**PRE 375 Principles of Public Relations** (3,0,3) Philosophy and functions of public relations practices; campaign planning and public affairs activities; writing messages for and selection of news media. PREREQ: JOU 100 and JOU 230, or consent of instructor.

**PRE 376 Public Relations Writing** (3,0,3) 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** (3,0,3) Evaluation of public relations programs conducted by companies, nonprofit institutions, and government agencies; writing for specialized and mass media in public relations. PREREQ: PRE 375.

**PRE 396 Internship: Public Relations** (3,0,3) 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. PREREQ: 1 semester hour of P.R. practicum (PRE 296); consent of supervising faculty.

**PRE 410 Electronic Public Relations** (3,0,3) 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. PREREQ: RTV/JOU 100, SPE 220, and an advanced writing course (PRE 376, ENG 340, JOU 346, or ENG 391).

**PRE 499 Independent Study: Public Relations** (3,0,3) 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. PREREQ: junior standing or consent of instructor; approved independent study proposal.

### Prior Learning

#### PRL

**PRL 101** (2,0,2) Conversion of prior (job or personal) college level learning experience into college credit; assembling a portfolio document. PREREQ: written permission from Credit Continuing Education and Distance Learning.

### Political Science

#### PSC

**PSC 100 American Politics** (3,0,3) National government in the U.S.; decision making process, government structure, politics. *A general education course (social sciences).*

**PSC 101 State and Local Politics** (3,0,3) Policy making processes in U.S. state governments; Kentucky state and local governments. *A general education course (social sciences).*

**PSC 102 Comparative Politics** (3,0,3) Analysis of political systems using the comparative approach to political processes and behavior. *A general education course (social sciences or non-western perspective).*

**PSC 103 International Politics** (3,0,3) Fundamental factors governing international politics. *A general education course (social sciences or non-western perspective).*

**PSC 110 History of Western Political Thought** (3,0,3) Trends and ideas that have helped shape Western political heritage. *A general education course (humanities).*

**PSC 111 History of American Political Thought** (3,0,3) Trends and ideas that have helped shape the American political heritage. *A general education course (humanities).*

**PSC 215 Race, Gender, and Politics** (3,0,3) Race, ethnicity, and gender patterns in the U.S.; race and gender issues related to law, justice, and public policy; historical antecedents of contemporary policies and practices; women and ethnic groups and their relation to cultural, economic, social, and political trends. *A general education course (social sciences or race/gender).*

**PSC 291W Writing in Political Science** (3,0,3) Writing techniques used in the discipline including but not limited to research papers, reviews, briefs, position papers, policy analyses, and technical reports; professional writing processes including finding, using and citing sources; information techniques used in political science. *A general studies course (Written Communications II).*

**PSC 301 Congress and the President** (3,0,3) Power and politics of the legislative and executive branches of the U.S. government and the relationship between them. PREREQ: 3 semester hours of introductory political science or consent of instructor.

**PSC 304 Introduction to the Law** (3,0,3) Various approaches to law, including philosophical, sociological, political, and historical; elements of legal reasoning; institutions, functions, and effects of law in American society. PREREQ: 3 semester hours of introductory political science courses.

**PSC 305 The Judicial Process** (3,0,3) A systems approach to the behavior of actors in the federal judiciary. PREREQ: 3 semester hours of introductory political science courses or consent of instructor.

**PSC 307 Constitutional Law** (3,0,3) Major constitutional issues studied through decisions of the Supreme Court. PREREQ: 3 semester hours of introductory political science courses or consent of instructor.

**PSC 308 Civil Liberties** (3,0,3) Equal protection under the law; criminal due process; First Amendment freedoms studied through case methods. PREREQ: 3 semester hours of introductory political science courses or consent of instructor.

**PSC 310 Political Behavior** (3,0,3) Voting, campaigns, and recruitment of political leadership; academic background for courses in campaign management, public opinion, or elections. PREREQ: 3 semester hours of introductory political science courses or consent of instructor.

**PSC 311 Political Parties and Elections** (3,0,3) Development and structure of U.S. party and electoral systems; party nominations, conventions, funding, and campaigning; role of elections in the political system. PREREQ: 3 semester hours of introductory political science courses or consent of instructor.

**PSC 312 Modern Ideologies** (3,0,3) 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. PREREQ: 3 semester hours of introductory political science courses or consent of instructor.

**PSC 315 Scope and Methods** (3,0,3) Philosophical foundations of political analysis; various methodologies and quantitative techniques; nature of the role of the

- political scientist. PREREQ: 3 semester hours of introductory political science courses or consent of instructor.
- PSC 316 Data Analysis (2,3,3)** Applied current research techniques in, e.g., legal research, survey research, use of microcomputers, management of information, and applied governmental research. PREREQ: PSC 315 or consent of instructor.
- PSC 330 Politics of Europe (3,0,3)** Organization and functioning of modern European political systems, especially Great Britain, France, Germany, and Italy. PREREQ: 3 semester hours of introductory political science courses or consent of instructor.
- PSC 335 Latin American Politics (3,0,3)** Comparative analysis of selected republics, especially Argentina, Brazil, Chile, Peru, and Venezuela. PREREQ: 3 semester hours of introductory political science courses or consent of instructor.
- PSC 338 U.S. Foreign Policy and the Developing World (3,0,3)** A comprehensive examination of the theory and practice of United States foreign policy in the developing world and critical analysis of the implications of such policy on U.S./Developing World relations. Analysis aimed to assist students to see and understand how the perceptions formed by both sides are based on how they view the impact of the policy on their perceived national interests. PREREQ: 3 semester hours of introductory political science courses or consent of instructor.
- PSC 355 Comparative Revolutionary Politics (3,0,3)** Comparative analysis of major western revolutions and Third World revolutions; causes and consequences of revolutionary activity. PREREQ: 3 semester hours of introductory political science courses or consent of instructor.
- PSC 362 Politics of South East Asia (3,0,3)** Comparative analysis of the colonial experience and legacy; modern political development; regional and external relations.
- PSC 366 Government & Politics in Africa (3,0,3)** To provide 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 Early Political Theory (3,0,3)** Nature of political life; basic questions examined through close reading of original works of early Greek and Christian thinkers. PREREQ: 3 semester hours of introductory political science or philosophy courses or consent of instructor.
- PSC 373 Modern Political Theory (3,0,3)** Reaction against classical and Christian thought; origin of natural rights theory in Hobbes, Locke, and later writers. PREREQ: 3 semester hours of introductory political science or philosophy courses or consent of instructor.
- PSC 374 Contemporary Political Theory (3,0,3)** Major 20th century figures in political theory and philosophy. PREREQ: 3 semester hours of introductory political science or philosophy courses or consent of instructor.
- PSC 382 Canadian Politics and Policies (3,0,3)** To provide a comprehensive analysis of the theory, practice and reality of Canadian politics and policies. The major intent is to help the student better grasp and comprehend the structure and nature of government and politics in Canada, as well as the policies resulting and their impact on the Canadian policy and the greater international community.
- PSC 394 Topics: American Politics (3,0,3)** Topics vary from semester to semester. See *Schedule of Classes* for topic and prerequisites. May be repeated. PREREQ: 3 semester hours of introductory political science courses or consent of instructor.
- PSC 394 Topics: Theory and Practice (3,0,3)** Topics vary from semester to semester. See *Schedule of Classes* for topic and prerequisites. May be repeated. PREREQ: 3 semester hours of introductory political science courses or consent of instructor.
- PSC 394 Topics: Comparative Politics (3,0,3)** Topics vary from semester to semester. See *Schedule of Classes* for topic and prerequisites. May be repeated. PREREQ: 3 semester hours of introductory political science courses or consent of instructor.
- PSC 394 Topics: International Politics (3,0,3)** Topics vary from semester to semester. See *Schedule of Classes* for topic and prerequisites. May be repeated. PREREQ: 3 semester hours of introductory political science courses or consent of instructor.
- PSC 403 Public Policy (3,0,3)** Forces molding public choice; general processes of policy formation and adoption; analysis of implementation of policies dealing with problems of compliance and policy impact, distribution, and evaluation; major domestic public policy issues including criminal justice, social welfare, environment, health care, and taxation. PREREQ: 3 semester hours of introductory political science courses or consent of instructor.
- PSC 410 Political Economy (3,0,3)** Interaction between politics and economics at the domestic and international levels; process leading to national and international distribution of wealth and economic development. PREREQ: 6 semester hours of introductory political science or economics courses or consent of instructor.
- PSC 415 United States Foreign Policy (3,0,3)** Forces shaping policy; analysis of policy in contemporary foreign relations. PREREQ: 6 semester hours of introductory political science courses or consent of instructor.
- PSC 420 International Terrorism (3,0,3)** This course is designed to acquaint students with a comprehensive introduction to the theory and practice of international terrorism. The class will focus on understanding the concept of terrorism, and what role it plays in international as well as domestic politics. An attempt will also be made to explore the driving forces that motivates acts of terrorism that include religious, political, and economic components, inter alia.
- PSC 430 Politics and Mass Media (3,0,3)** Impact of media on political process in the United States; structure and ownership of mass media; mass media and political behavior; role of the media in campaigns, elections and policy making.
- PSC 470 The Post-Cold War World (3,0,3)** A global approach to international politics through studying the interdependence of the political, economic, environmental, and cultural relationships in today's world; characteristics of the evolving international system.
- PSC 480 International Law (3,0,3)** Development of international law; enforcement of international law; impact of international law on conduct of international relations among nation states. PREREQ: 6 semester hours of introductory political science courses or consent of instructor.
- PSC 481 International Organizations (3, 0, 3)** Development of international organizations; recent international organizations; role of United Nations in peacekeeping and international socioeconomic and cultural development. PREREQ: 6
- PSC 485 Comparative Foreign Policy (3,0,3)** Comparative analysis of foreign policies of selected states; decision-making and factors affecting foreign policy. PREREQ: 6 semester hours of introductory political science courses, or consent of instructor.
- PSC 486 War in the Modern World (3,0,3)** 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 (3 to 15 sem. hrs)** Students may enroll for real-world experiential credit with public or private hosts. Students must have the consent of Internship Director and/or Department Chair.
- PSC 499 Readings and Practica for Seniors (3,0,3)** Topics vary. May be repeated as topics change. PREREQ: 6 semester hours of introductory political science courses, or consent of the instructor and chair prior to registration.



**Psychology****PSY**

**PSY 100 Introduction to Psychology** (3,0,3) 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. *A general education course (behavioral sciences).*

**PSY 100H Honors Introduction to Psychology** (3,0,3) 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. *A general education course (behavioral sciences).* PREREQ: minimum ACT composite of 24 or consent of instructor.

**PSY 200 Psychology of Personal Adjustment** (3,0,3) Personal growth and development including personal health; stress management; values clarification; moral dilemmas; interpersonal relations; social problems; career development. *A general education course (behavioral sciences).* PREREQ: PSY 100.

**PSY 201 Psychology of Race and Gender** (3,0,3) Psychological effects of racism and sexism; gender, ethnicity, culture, politics, and economic and social issues in the United States. *A general education course (behavioral sciences or race/gender).*

**PSY 205 Psychology of Human Sexuality** (3,0,3) A survey in human sexuality focusing on biological, psychological, behavioral, and developmental issues. Sexual attitudes, values, and gender issues also addressed. Explicit content. *A general education course (behavioral sciences).* PREREQ: PSY 100.

**PSY 206 Human Sexuality Forum** (3,0,3) Focuses on personal attitudes and values through structured exercises and discussion. Explicit content. Offered only during intersession; graded pass/fail. Credit is not given for both PSY 205 and PSY 206. Same as PSY 205. *A general education course (behavioral sciences).* PREREQ: PSY 100.

**PSY 210 Research Methods in Psychology** (3,0,3) Experimental and other research methods in psychological research. A laboratory experience is included. PREREQ: PSY 100 and MAT 205. COREQ: PSY 210L and PSY 210R.

**PSY 210L Research Tools in Psychology** (1,2,2) 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. COREQ: PSY 210 and PSY 210R.

**PSY 210R Career Planning for Psychology Majors** (1,0,1) Assessment of individual values, interests, and abilities; investigation of psychology-related vocations; planning and decision-making skills regarding future careers. COREQ: PSY 210 and PSY 210L

**PSY 220 Lifespan Development** (3,0,3) Psychological theory and research on physical, cognitive, personality, and social development across the life span. Students receiving credit for PSY 220 cannot receive credit for either PSY 319 or PSY 320. *A general education course (behavioral sciences).* PREREQ: PSY 100.

**PSY 291W Writing in Psychology** (3,0,3) Practice in types of writing most commonly encountered in psychology (case study, literature review, and report of an empirical study). *A general education course (English composition).* PREREQ: major in psychology, PSY 100, one additional course in psychology, ENG 101, and sophomore standing.

**PSY 300 Personality Theory** (3,0,3) Overview of research findings in personality psychology; emphasis on empirically supported conclusions regarding personality. PREREQ: PSY 100.

**PSY 302 The Human Side of Work** (3,0,3) 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. PREREQ: PSY 100.

**PSY 304 Consumer Psychology** (3,0,3) Psychological methods and concepts used to understand, explain, and predict the dynamics underlying, influencing, and determining consumer behavior; research methodology, individual and group influences, product attributes, promotional techniques, and consumer decision making. PREREQ: PSY100.

**PSY 305 Psychological Testing** (3,0,3) 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. PREREQ: PSY 100; consent of instructor for students not majoring/minoring in psychology.

**PSY 308 Psychology of Gender** (3,0,3) Research on gender differences and similarities in cognitive abilities, personality traits, and behavior; biological, cognitive, psychoanalytic, social learning, and sociobiological perspectives on gender; implications of gender roles for psychological adjustment, physical health, relationships, sexuality, family, and work. PREREQ: PSY100.

**PSY 309 Psychology of Perception** (3,0,3) Current theories and research in understanding visual perception of color, movement, and illusions; perception in other sensory modalities. PREREQ: PSY 100.

**PSY 309L Perception Laboratory** (1,2,2) Laboratory to accompany PSY 309. PREREQ: PSY 210 or equivalent; PREREQ or COREQ: PSY 309 or equivalent.

**PSY 311 Biopsychology** (3,0,3) 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. PREREQ: PSY 100; consent of instructor for students not majoring/minoring in psychology.

**PSY 311L Biopsychology Laboratory** (1,2,2) Laboratory to accompany PSY 311. PREREQ: PSY 210 or equivalent; PREREQ or COREQ: PSY 311 or equivalent.

**PSY 319 Child Development** (3,0,3) Psychological theory and research on developmental and individual differences among children in the physical, cognitive, personality, and social domains; biological, psychosocial, and cultural contextual causes for these differences. Students receiving credit for PSY 319 cannot receive credit for PSY 220. PREREQ: PSY 100.

**PSY 320 Psychology of Adult Development** (3,0,3) Psychological development from adolescence through adulthood; physical, intellectual, social, and personality development; developmental tasks involving identity formation, marriage, child rearing, work, retirement, and death. Students receiving credit for PSY 320 cannot receive credit for PSY 220. PREREQ: PSY 100.

**PSY 330 Behavior Modification** (3,0,3) Introduction to applied behavior analysis; the use of operant and classical conditioning to analyze and change behavior. PREREQ: PSY 100.

**PSY 333 Abnormal Psychology** (3,0,3) Symptoms, causes, and treatment of major mental disorders; research methods in psychopathology. PREREQ: PSY 100.

**PSY 337 Animal Learning** (3,0,3) 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. PREREQ: PSY 100.

**PSY 338 Cognitive Processes** (3,0,3) Cognitive methodology, theory, and empirical basis of the scientific study of human memory and information processing; thinking; problem solving; concept formation. PREREQ: PSY 100; consent of instructor for students not majoring/minoring in psychology.

**PSY 338L Cognitive Processes Laboratory** (1,2,2) Laboratory to accompany PSY 338. PREREQ: PSY 210 or equivalent; PREREQ or COREQ: PSY 338 or equivalent.

**PSY 340 Social Psychology** (3,0,3) Social perception and social influences on behavior; attribution, attitudes, attraction, aggression, pro-social behavior, compliance, and small groups. PREREQ: PSY 100.

**PSY 340L Social Psychology Laboratory** (1,2,2) Laboratory to accompany PSY 340. PREREQ: PSY 210 or equivalent. PREREQ or COREQ: PSY 340 or equivalent.

**PSY 344 Industrial/Organizational Psychology** (3,0,3) 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. PREREQ: PSY 100.

**PSY 345 Human Factors Psychology** (3,0,3) 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. PREREQ: 9 semester hours of psychology.

**PSY 348 Environmental Psychology** (3,0,3) Review of scientific literature on psychological aspects of interdependence of humans and their environment; environmental perception, effects of physical environment on behavior, physical space and behavior, environmental design, and strategies for preserving the environment. PREREQ: PSY 100; PSY 340 or consent of instructor.

**PSY 350 Training Group Theory and Laboratory Method** (3,0,3) Small groups and development of interpersonal effectiveness; individual and group roles; resolution of conflicts; interpersonal trust; helping relationships. Graded pass/fail. PREREQ: PSY 100.

**PSY 370 Humanistic Psychology** (3,0,3) 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. PREREQ: PSY 100.

**PSY 400 Approaches to Psychotherapy** (3,0,3) Theories and techniques of psychoanalytic, humanistic, behavioral, and cognitive therapies; evaluation of treatment outcome research. PREREQ: PSY 210, PSY 210L, PSY 333; consent of instructor for students not majoring/minoring in psychology.

**PSY 405 Counseling Psychology** (2,2,3) Techniques of counseling; skills necessary in therapeutic interviewing; selection, application, and evaluation of appropriate goals, strategies, and tactics of counseling. PREREQ: PSY 100 and junior standing or consent of instructor.

**PSY 450 Psychopathology of Childhood** (3,0,3) Seminar in abnormal child psychology; theory and research in assessment, classification, etiology, and treatment. PREREQ: PSY 220 and PSY 333.

**PSY 455 Forensic Psychology** (3,0,3) Guided readings, discussions, and evaluations of scientific literature and theory in forensic psychology; understanding psychological, social, and biological determinants of criminal behaviors; multidisciplinary focus. PREREQ: PSY 100 and junior standing or consent of instructor.

**PSY 465 Health Psychology** (3,0,3) 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. PREREQ: PSY 100 and junior standing or consent of instructor.

**PSY 470 Addictive Behaviors** (3,0,3) Review of scientific literature on causes, consequences and treatment of alcoholism, nicotine dependence, and other drug abuse; research methodology used to determine treatment effectiveness. PREREQ: PSY 100, PSY 210, PSY 210L, and consent of instructor.

**PSY 475 History and Systems of Psychology** (3,0,3) Historical and philosophical basis of contemporary psychology; logic of science; introspectionist, functionalist, purposive, psychoanalytic, behaviorist, gestalt, and cognitive systems. PREREQ: 12 semester hours in psychology.

**PSY 492 Research: Psychology** (1-3 sem. hrs.) 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. PREREQ: consent of instructor and psychology chair prior to registration.

**PSY 494 Special Topics in Psychology** (1-3 semester hrs.) Seminar course; topic listed in *Schedule of Classes* each semester. PREREQ: PSY 100 and consent of instructor.

**PSY 499 Independent Study: Psychology** (1-3 sem. hrs.) 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. PREREQ: consent of instructor and psychology chair prior to registration.

**PSY 550 Organizational Psychology** (3,0,3) Introductory graduate level study in organizational psychology; commitment, involvement, satisfaction, motivation, leadership, power, quality of work-life, and groups/teams. PREREQ: Consent of I-O director.

**PSY 570 Work Environments** (3,0,3) Introduction to human factors psychology; ergonomics; occupational health and safety; physical and psychological factors influencing the workplace. PREREQ: Consent of I-O director.

**PSY 580 Cognition in the Workplace** (3,0,3) Judgment and decision-making, heuristics, biases, persuasion, prejudice, diversity, values, and attitude measurement. PREREQ: Consent of I-O director.

### Radiologic Technology RAD

**RAD 101 Introduction to Allied Health Professions** (1,0,1) Introduction to the professions of respiratory care and radiologic technology, including basic job responsibilities/scope of practice, medical terminology, and patient assessment. More specific information regarding the respiratory care and radiography programs will be presented. Same as RSP 101.

**RAD 200 Introduction to Radiography** (5,1,6) 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. PREREQ: admission to radiologic technology program. PREREQ: PHY 110 and admission to radiologic technology program.

**RAD 205 Professional Communication in the Health Sciences** (3,0,3) Introduction to methods of professional communication relative to health care delivery; topics will include medical terminology, computers in medicine, ethical and legal issues, charting, professionalism, and the team concept in health care.

**RAD 208 Radiographic Procedures I** (3,0,3) Radiographic anatomy, positioning, and image analysis of the appendicular skeleton, vertebral column and upper airway. PREREQ: RAD 200. COREQ: RAD 208L.

**RAD 208L Radiographic Positioning Laboratory I** (0,2,1) Radiographic positioning of the appendicular skeleton and vertebral column using simulation and phantoms; supervised practice and film critique. Pass/fail only. COREQ: RAD 208

**RAD 209 Radiographic Procedures II** (3,0,3) 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. PREREQ: RAD 208. COREQ: RAD 209L.

**RAD 209L Radiographic Positioning Laboratory II** (0,2,1) 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. COREQ: RAD 209.

**RAD 214 Analysis of Radiographic Quality** (3,0,3) Principles of radiographic exposure variables and processing; analysis of the radiographic image; problem-solving approach to practical application of principles. PREREQ: RAD 200. COREQ: RAD 214L.

**RAD 214L Analysis of Radiographic Quality Laboratory** (0,2,1) Laboratory demonstration and experimentation coordinated with principles taught in RAD 214. PREREQ: RAD 200. COREQ: RAD 214.

**RAD 216 Physical Principles of Radiographic Equipment** (4,0,4) Principles of electromagnetism and the relationship to radiographic circuitry and equipment; construction and design of radiographic, fluoroscopic, mammographic, tomographic, and digital equipment. PREREQ: RAD 214.

**RAD 286 Radiographic Practicum I** (1,16,3) Clinical application of principles of radiographic positioning, technique, and radiation protection; competency in chest, abdominal, appendicular skeleton, vertebral column, shoulder, and pelvic girdle radiography. Conducted under supervision of registered radiographers and clinical faculty. PREREQ: RAD 200. COREQ: RAD 208.

**RAD 296 Radiographic Practicum II** (1,16,3) 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. PREREQ: RAD286. COREQ: RAD 209.

**RAD 299 Independent Study** (1-3 sem. hrs.) 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** (3,0,3) Pediatric, geriatric, trauma, and surgical radiography; mammography; introduction to specialized non-vascular and vascular radiographic procedures and equipment; lecture/discussion and guest speakers. PREREQ: RAD 209. COREQ: RAD 386.

**RAD 310 Advanced Radiographic Anatomy** (2,2,3) Cross-sectional human anatomy with emphasis on differentiating between normal and abnormal variants; neurological, vascular, cranial, and spinal anatomy related to specialized medical imaging techniques. PREREQ: BIO208-209 and consent of instructor.

**RAD 315 Ultrasonography: Physics and Instrumentation** (3,0,3) Principles of ultrasound production, wave propagation, and ultrasound/tissue interactions; applications of principles to image production and equipment controls; bioeffect considerations and quality assurance assessments. Assumes a knowledge of elementary algebra. PREREQ: registered radiographer or consent of instructor.

**RAD 325 Ultrasonography: Abdomen, Neck, and Thorax** (3,0,3) Physiology and sectional anatomy of the upper abdomen including liver, pancreas, biliary tree, abdominal vascular structures, kidneys, spleen, and retroperitoneal structures; scanning techniques and pitfalls; clinical correlations and considerations associated with pathology.

**RAD 326 Ultrasonography: Obstetrics and Gynecology** (3,0,3) Physiology and sectional anatomy of the female pelvis; embryological and fetal development; identification of normal and abnormal fetal structures and associated pathology; antepartum monitoring techniques; scanning techniques and pitfalls; clinical correlations and considerations associated with pathology.

**RAD 330 Radiology Department Planning** (3,0,3) Analysis of the structural, functional, and organizational characteristics of radiology departments; equipment acquisition, shielding installation, work-flow patterns, and the staffing process. PREREQ: two years of radiography experience or consent of instructor.

**RAD 334 Specialized Medical Imaging** (3,0,3) 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. PREREQ: RAD 303.

**RAD 340 Radiation Biology and Protection** (3,0,3) Biological effects of ionizing radiation; radiation safety requirements and procedures; laboratory demonstration/experimentation. PREREQ: RAD 216.

**RAD 350 Clinical Pathology for Radiographers** (3,0,3) Anatomy, pathology, and mechanisms of disease with its radiological manifestation in radiographic studies; case studies; radiology presentations. PREREQ: RAD 303 and BIO 209.

**RAD 360 Quality Assurance** (1,2,2) Elements of quality assurance program in radiology; reject analysis, processing control and maintenance, equipment testing, preventative maintenance, and record keeping; laboratory demonstration/experimentation. PREREQ: RAD 216.

**RAD 376 Radiographic Practicum III** (0,16,2) 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. PREREQ: RAD 209 and RAD 296.

**RAD 386 Radiographic Practicum IV** (1,16,3) 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. PREREQ: RAD 376. COREQ: RAD 303.

**RAD 394 Seminar: Radiography** (1,0,1) Comprehensive review and assessment of essential concepts in radiography; preparation for the ARRT examination. PREREQ: RAD 340; COREQ: RAD 334.

**RAD 394 Topics: Advanced Imaging** (3,0,3) 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 at discretion of radiologic technology faculty. Topic announced in the Schedule of Classes. May be repeated, when topics vary, for a maximum of 9 semester hours.

**RAD 396 Radiographic Practicum V** (0,24,3) 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. PREREQ: RAD 386. COREQ: RAD 334.

**RAD 410 Radiology Department Management** (3,0,3) Basic applied radiology management functions; personnel and patient scheduling; purchasing procedures; budget and quality control processes; organizational relationships and authority. PREREQ: two years of radiography experience or consent of instructor.

**RAD 440 Radiology Management Practicum** (0,24,3) Selected placement of qualified students in an affiliate hospital radiology department; work experience includes scheduling and evaluation procedures, quality assurance procedures, and equipment acquisition planning. Practicum will be contracted between student, faculty advisor, and hospital preceptor. PREREQ: senior standing and consent of instructor.

**RAD 450 Advanced Imaging Pathology** (3,0,3) 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. PREREQ: RAD 350 or consent of instructor.

**RAD 490 Senior Seminar** (2,0,2) Discussion of current issues and problems related to health care professions. PREREQ: senior standing and consent of instructor.

**RAD 494 Topics: Radiology** (3,0,3) Intensive study of a special topic or issue in radiologic technology conducted either in a seminar or by independent study. May be repeated for credit.

**RAD 496 Practicum: Advanced Imaging** (0,24,3) Clinical application of principles of ultrasound, CT MRI, or DSA; image production and scanning techniques. Conducted under supervision of registered technologists and clinical faculty. May be repeated for a maximum of 9 semester hours. PREREQ: senior standing and consent of instructor.

## Religious Studies

### REL

**REL 181 Survey of the Hebrew Bible (Old Testament)** (3,0,3) Major figures, main themes, basic values, and primary beliefs found in the Hebrew Bible in its religious, philosophical, political, and historical contexts. *A general education course (history or humanities).*

**REL 182 Survey of the New Testament** (3,0,3) Major figures, main themes, basic values, and primary beliefs of New Testament writings in their religious, philosophical, political, and historical contexts. *A general education course (humanities or history).*

- REL 185 Survey of Christianity** (3,0,3) Main beliefs, figures, orientations, and branches of the Christian tradition; contemporary movements and issues. *A general education course (humanities).*
- REL 186 Introduction to Judaism** (3,0,3) Introduction to the history of Judaism, major beliefs, branches, ceremonies and rituals central to contemporary Jewish life. *A general education course (humanities).*
- REL 201 Ideas in Religious Studies** (3,0,3) Issues and/or works in religious studies revolving around a selected theme or concern. May be repeated as topics vary. *A general education course (humanities).*
- REL 250 Religion and Ethics** (3,0,3) Comparative study of the ethical dimension of the world religions: moral ideals, models of virtue, codes of ethics; views on topics such as the relation between the sexes, race, work, human rights, political responsibility, and war; focus mainly upon Hinduism, Buddhism, Islam, Judaism, and Christianity.
- REL 260 Human Religious Experience** (3,0,3) 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 320 Religion in America** (3,0,3) Reading and discussion of writings of representative contemporary theologians and writers; development of awareness of basic issues and patterns in recent theological thinking.
- REL 325 African American Religious Experience in America** (3,0,3) Religion in shaping the historical cultural and spiritual sojourn of African Americans. Topics include the roots, history, and diversity of African American Religious expression; its values, norms and traditions; the role of women; and its relation to popular culture. *A general education course (race/gender)* and may count toward minor in Afro-American Studies. PREREQ: ENG 101 or equivalent.
- REL 330 Contemporary Religious Thought** (3,0,3) Reading and discussion of writings of representative contemporary theologians and writers; development of awareness of basis issues and patterns in recent theological thinking.
- REL 370 Religion and Science** (3,0,3) 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. *A general education course (humanities).* PREREQ: ENG 291 or equivalent.

- REL 394 Topics: Religious Studies** (3,0,3) 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. PREREQ: 3 semester hours in religious studies or philosophy or consent of instructor.

### Respiratory Care RSP

- RSP 101 Introduction to Allied Health Professions** (1,0,1) Introduction to the professions of respiratory care and radiologic technology, including basic job responsibilities/scope of practice, medical terminology, and patient assessment. More specific information regarding the respiratory care and radiography programs will be presented. Same as RAD 101.
- RSP 110 Fundamentals of Respiratory Care** (4,0,4) Introductory respiratory care theory and procedures; medical terminology and mathematics review; basic respiratory system anatomy and physiology; pharmacology and administration procedures for aerosolized medications; theory and equipment for oxygen therapy, pulse oximetry, hyperinflation therapy, and mucus clearance techniques; principles of infection control. PREREQ: admission to respiratory care program. COREQ: RSP 110L and RSP 115.
- RSP 110L Patient Assessment Lab** (0,2,1) 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. COREQ: RSP 110.
- RSP 115 Clinical Practicum I** (0,16,2) 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. COREQ: RSP 110 and RSP 110L.

- RSP 120 Ventilatory Support** (4,0,4) Theory and application of procedures and equipment used for airway management, non-invasive ventilatory support, cardiopulmonary resuscitation, ECG arrhythmia recognition and treatment, bland aerosol and humidity therapy, arterial puncture, pharmacological treatment of infectious processes, and equipment disinfection and sterilization. PREREQ: RSP 110-110L. COREQ: RSP 120L.

- RSP 120L Respiratory Lab II** (0,2,1) Demonstration and practice in intermediate respiratory care procedures: hand ventilation, nasotracheal and endotracheal suctioning, intermittent positive pressure breathing, cardiopulmonary resuscitation, tracheal tube care, and blood oxygen monitoring by means of pulse oximetry and arterial puncture. PREREQ: RSP 110-110L. COREQ: RSP 120.

- RSP 125 Clinical Practicum II** (0,16,2) 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 health care professionals. PREREQ: RSP 110-110L. COREQ: RSP 120-120L.

- RSP 130 Respiratory Physiology and Physics** (3,0,3) 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: RSP 110-110L and BIO 208-208L. COREQ: RSP 120-120L and BIO 209-209L.

- RSP 210 Artificial Ventilation** (3,0,3) 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. PREREQ: RSP 120. COREQ: RSP 120L.

- RSP 210L Respiratory Lab III** (0,2,1) Demonstration and practice with procedures and equipment used for the artificial ventilation, weaning and monitoring of patients requiring life support; pre-clinical training with the ventilators and procedures needed for RSP 225- Respiratory Practicum III, involving clinical experience with patients on artificial ventilation in area hospitals. PREREQ: RSP 120-120L. COREQ: RSP 210.

- RSP 225 Clinical Practicum II** (0,16,2) Professionally supervised experience in artificial ventilation in intensive care units: initial ventilator set-up, control adjustments, monitoring, circuit changes, and weaning from artificial ventilation; provision of basic respiratory care in intensive care setting. COREQ: RSP 210-210L.

- RSP 231 Cardiopulmonary Monitoring and Pharmacology** (3,0,3) Theory, procedures, and instrumentation used to evaluate hemodynamic function; application of hemodynamic monitoring via pulmonary artery catheter; interpretation of pressure waveforms and measurements and cardiovascular calculations; pharmacological treatment of cardiovascular disturbances; recent advancements in critical care. PREREQ: RSP 130.

- RSP 233 Pulmonary Function Test** (2,0,2) Theory, procedures, and instruction used to evaluate lung function; differentiation of obstructive from restrictive lung defects and guidelines for determining the degree of impairment; interpretation of sample PFTs; quality assurance procedures, blood gas analyzers, and capnography.

- RSP 240 Pulmonary Rehabilitation** (2,0,2) Components of a pulmonary rehabilitation program; physiological and psychosocial problems of patients with chronic pulmonary disease; design and implementation of a program of education and exercise tailored to meet needs of the individual patient. COREQ: RSP 250.

- RSP 250 Chest Diseases** (2,0,2) Assessment techniques for pulmonary disease patients including history taking, chest physical exam, basic X-ray, lab study, and PFT interpretation; clinical presentation, pathology, and management of common pulmonary diseases-asthma, chronic bronchitis, emphysema, bron-

chietasis, pneumonia, pulmonary embolism, heart failure, chest trauma, sleep apnea, adult respiratory distress syndrome, and neuromuscular disorders. COREQ: RSP 240.

**RSP 262 Prenatal-Pediatric Respiratory Care** (3,0,3) 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. PREREQ: RSP 210. COREQ: RSP 267.

**RSP 267 Clinical Practicum IV** (0,16,3) Further experience in applications of respiratory care in the intensive care unit, cardiopulmonary monitoring, applications of pulmonary rehabilitation, pediatric respiratory care. PREREQ: RSP 225. COREQ: RSP 231 and RSP 262.

**RSP 280 Respiratory Care Seminar** (3,0,3) 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 287 Clinical Practicum V** (0,16,3) Experience providing neonatal respiratory care; training in airway management techniques; development of leadership and time management skills; summative clinical rotations. PREREQ: RSP 267.

**RSP 299 Independent Study: Respiratory Care** (1-3 sem. hrs.) 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 semesters hours.

### Radio/Television

#### RTV

**RTV 100 Contemporary Mass Media** (3,0,3) Basic concepts of mass communications; roles and functions of mass media in today's society; analysis of operation of major mass media. Same as JOU 100.

**RTV 105 Race, Gender, and the Mass Media** (3,0,3) Mass media's influence on perceptions of race and gender in the U.S.; historical development of gender and ethnic stereotypes; mass media's relation to politics and economics; discriminatory practice in the media industry; effect of communication education; alternative media. *A general education course (race/gender).*

**RTV 110 Introduction to Telecommunications** (3,0,3) Introduction to program and profession; organization, operations, programming, audience measurement, and impact of electronic media; legal, economic, and social controls of radio, television, cable, new media, and corporate media within a framework of the historical development of telecommunications. PREREQ or COREQ: RTV 100 or consent of instructor.

**RTV 205 Introduction to Popular Culture** (3,0,3) Major areas of popular culture studies; values and attitudes expressed in and passed on by activities, objects and entertainment forms of popular culture. *A general education course (social science).*

**RTV 210 Television Production I: Basic Production** (2,4,3) Introduction to small format, video program design and development; theory and practice of single camera videotaping and editing; modes of storytelling. PREREQ: RTV 110.

**RTV 215 Radio Production** (3,3,3) Theory and practice in planning and producing a selective group of audio program elements typical of the present industry; coordinating the control console, turntables, tape cartridge machines, and tape recorders; audio recording, mixing, and tape editing. PREREQ: RTV 110.

**RTV 230 Broadcast Announcing** (3,0,3) Theory and practice in delivery techniques for radio and television, including work on voice, diction, and pronunciation; development of a cultural framework essential for versatility in announcing; interpretation of the most commonly used scripts in broadcasting; the studio interview. PREREQ: RTV 215, or consent of instructor.

**RTV 260 Broadcast Writing** (3,0,3) Non-journalistic writing techniques and styles used in television and radio including narrative and documentary modes

of story telling. PREREQ: RTV 215 and RTV 210 or consent of instructor; ACT English (or equivalent) score of 20 or higher.

**RTV 265 Broadcast News Writing** (3,0,3) Principles and practice of writing and editing news for the electronic media; development of an effective broadcasting style, conciseness, and accuracy for hard news and features; basic reporting and interviewing techniques, electronic news gathering, rewriting, editing, and compiling. PREREQ: RTV 110 or consent of instructor; ACT English (or equivalent test) score of 20 or higher.

**RTV 296 Radio and Television Exploratory Internship** (1-3) Entry-level internship in media related organization (broadcast, cable, internet, or non-broadcast media production facility). Explore work and career opportunities in programming, writing, production, sales, engineering promotion and/or media management. PREREQ: RTV 110 and/or consent of instructor. Open only to RTV majors.

**RTV 305 Television Production II: Studio Production** (2,4,3) 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. PREREQ: RTV 210 and RTV 215 with a C or better, or consent of instructor.

**RTV 307 Broadcast Programming** (3,0,3) Strategies of program selection, scheduling, and evaluation; audience ratings, research, and analysis. PREREQ: RTV 110, RTV 215, and RTV 210.

**RTV 308 Broadcast Sales and Advertising** (3,0,3) Pricing, promotions, and selling techniques in television and radio; campaign development, purchase and sale of time, and social responsibility in advertising. PREREQ: RTV 110.

**RTV 309 Broadcast Promotion** (3,0,3) Principles and problems of the promotion of broadcasting both from within the media of television and radio and through outside channels; promotion problems in network-affiliated and independent commercial stations and in non-commercial facilities. PREREQ: RTV 110.

**RTV 310 Advanced News Production** (2,4,3) Advanced electronic news gathering and electronic field production techniques with emphasis on broadcast quality scripting, taping, and editing. PREREQ: RTV 210 and a C or better.

**RTV 311 History of Broadcasting** (3,0,3) 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. PREREQ: RTV 110 or consent of instructor.

**RTV 315 Television Performance** (2,4,3) 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. PREREQ: RTV 230 or consent of instructor.

**RTV 320 Advanced Sound Production** (2,4,3) Practicum in advanced sound production; experience in production of various radio program formats including dramatic documentary, cultural affairs, and public affairs programming; advanced skills in commercial production, 4-track recording, and mix-down technique. PREREQ: RTV 215.

**RTV 325 Advanced Television Performance** (2,4,3) Intensive practice in the form of television performance currently employed in both commercial and non-commercial television; the dramatic and comedy sequence, announcing, show-hosting, and news reporting. PREREQ: RTV 315 or consent of instructor.

**RTV 355 Mass Media Practices** (3,0,3) In-depth analysis of a mass medium's practices including production, financing, marketing, personnel, policies, and organizational structures. May be repeated if the focused mass medium is different. PREREQ: RTV 100 or consent of instructor.

**RTV 361 Advanced Broadcast Newswriting** (3,0,3) Intensive practice of writing and editing news for the electronic (traditionally broadcast) media; advanced reporting and interviewing techniques; refinement of broadcast news writing style including conciseness, accuracy, editing and developing voiceovers and packages, and writing for particular media. PREREQ: RTV 265.

**RTV 365 Interviewing** (3,0,3) Theory and principles related to a variety of interviewing settings: employment, information, and advising; role of interviewer and interviewee; use of role playing; outside class exercises such as real interviews and written reports. Same as JOU 360 and SPE 360.

**RTV 370 International Media Systems** (3,0,3) 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. PREREQ: RTV 110 or consent of instructor.

**RTV 380 Documentary Theory and History** (3,0,3) Development of film and television documentary mode; theoretical paradigms used to critically study documentaries. PREREQ: RTV 100 or consent of instructor.

**RTV 394 Topics: Radio-Television** (3,0,3) Focused study of a specific and significant topic concerning radio-television. Topics vary from semester to semester. May be repeated once for credit. PREREQ: varies according to topic.

**RTV 394 Topics: Popular Culture** (3,0,3) Focused study of a specific and significant topic concerning popular culture. Topics vary from semester to semester. May be repeated once for credit. PREREQ: RTV 100 or RTV 205 or consent of instructor.

**RTV 396 Practicum: Radio and Television** (1-3 sem. hrs.) Supervised working experience in producing, directing, and/or managing audio and/or video production. Placement is on the basis of student interest, personnel needs of the broadcasting or production facilities, and faculty recommendation. May be repeated for maximum of 6 semester hours. PREREQ: written consent of supervising faculty member.

**RTV 396 Practicum: Radio and Television** (0,12,3) Continuation of supervised working experience in some phase of the operation of WRFN radio or the NKU television production studios. Placement is on the basis of student interest, personnel needs of the broadcasting or production facilities, and faculty recommendation. PREREQ: written consent of supervising faculty member.

**RTV 396 Internship: Radio-Television** (0,12,3 or 0,24,6) 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. PREREQ: written consent of the supervising faculty member; junior or senior standing; GPA of at least 2.75.

**RTV 396 Internship: Radio and Television** (0,12,3) Continuation of supervised working experience in some phase of the operation of WRFN radio or the NKU television production studios. Placement is on the basis of student interest, personnel needs of the broadcasting or production facilities, and faculty recommendation. PREREQ: written consent of supervising faculty member.

**RTV 397 Projects: TV** (1-3 sem. hrs.) Practical application of various broadcasting techniques. May be repeated for a maximum of 4 semester hours. PREREQ: RTV 305 and written consent of instructor.

**RTV 397 Projects: Audio** (1-3 sem. hrs.) Practical application of various broadcasting techniques; production of radio programs for on-campus distribution and for broadcast on local stations. May be repeated for a maximum of 4 semester hours. PREREQ: RTV 215 and RTV 230 and written consent of supervising faculty member.

**RTV 400 Broadcast Criticism** (3,0,3) 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. PREREQ: RTV 110; junior or senior standing, or consent of instructor.

**RTV 421 Advanced Dramatic Production** (2,4,3) Theory and practice in multi-camera studio and film style dramatic productions. PREREQ: RTV 210 and RTV 305 with a C or better, or consent of instructor.

**RTV 422 Avid Editing** (3,3,3) Concepts and techniques of digital, non-linear video editing; procedures for digitizing media, and creating video sequences, titles, and basic video effects. PREREQ: RTV 210, senior standing and/or written consent of the instructor.

**RTV 430 Communication Theories** (3,0,3) Theories of interpersonal, group, public, and mass communication; historical developments, paradigms, and research that shape communication theory construction. Same as JOU 430 and SPE 430. PREREQ: RTV 110 and at least junior standing.

**RTV 450 Advanced Broadcast Writing** (3,0,3) Practice in creative writing for broadcast, expressed in television and radio documentaries, instructional programs, and plays; writing and development of broadcast program units utilizing other literary forms (such as the short story and poem). PREREQ: RTV 260.

**RTV 460 Broadcast Management** (3,0,3) Management problems in relation to broadcasting from various managerial levels; lower-echelon management's direct concerns with programming, sales, engineering, and office administration functions; upper-echelon management's concerns with planning, organizing, motivation, staffing, directing, and controlling. PREREQ: RTV 110.

**RTV 499 Independent Study** (1-3 sem. hrs.). Individually supervised work involving reading, research and/or production in a specified areas of interest. Topic selected before registration in conference with instructor. May be repeated for a maximum of 6 semester hours. PREREQ: junior or senior standing; minimum GPA of 2.50 or consent of instructor; approved independent study proposal.

### Russian RUS

**RUS 101 Elementary Russian I** (3,1,4) Basic principles of the Russian language, including study of Cyrillic alphabet, pronunciation, and simple idioms. *A general education course (humanities).*

**RUS 102 Elementary Russian II** (3,1,4) Continuation of RUS 101, with addition of new vocabulary and more complex grammar and idiom forms. *A general education course (humanities).* PREREQ: RUS 101 or equivalent.

### Integrated Sciences SCI

**SCI 110 Integrative Natural Science I** (2,4,4) Introduction to the scientific process and major ideas of the natural sciences from the perspective of the various scientific disciplines. *A general education course (natural science).* PREREQ: Math ACT of 18 or placement. PREREQ or COREQ: ENG 101.

**SCI 111 Integrative Natural Science II** (2,4,4) Continuation of SCI 110; current issues in science and the environment. *A general education course (natural science).* PREREQ: SCI 110.

### Sociology SOC

**SOC 100 Introductory Sociology** (3,0,3) Concepts and methods, socialization, group processes, social institutions, and social change. *A general education course (behavioral sciences).*

**SOC 110 Introduction to Race and Gender** (3,0,3) Issues of race and gender relations in the U.S. and other societies; basic information on race/gender and their forms and functions in multicultural, multiethnic society. *A general education course (race/gender perspective).*

**SOC 202 Juvenile Delinquency** (3,0,3) Definition; investigation of evidence and etiology; judicial change and youth corrections. PREREQ: SOC 100 or consent of instructor.

**SOC 203 Sociology of Corrections** (3,0,3) Survey of correction systems; historical trends, facilities and programs, alternatives to institutionalization such as probation and parole, and relations to society. PREREQ: SOC 100 or consent of instructor.

**SOC 205 Current Social Issues** (3,0,3) 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. Topic(s) will change regularly and will be announced at time of offering. *A general education course (behavioral sciences).* PREREQ: SOC 100 or consent of instructor.

**SOC 208 Police and Society** (3,0,3) Roles of police as formal social control agents in stratified society; impact of social change on police work; policing as an

occupation; changing community standards; social characteristics of police; styles of policing. PREREQ: SOC 100 or LEN 100.

**SOC 210 Analysis of Racism and Sexism in the United States (3,0,3)** In-depth analysis of the role of social institutions in perpetuating racism/sexism in American society; religion, science, law, political and economic order, education, and mass media. *A general education course (behavioral science or race/gender perspective).*

**SOC 213 Sociology of Aging (3,0,3)** 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 245 Latin American Societies (3,0,3)** Contemporary cultures of Latin America; problems of contact, colonization, acculturation, development of the area cultural tradition; contemporary urbanization. *A general education course (behavioral sciences or non-western perspective).* PREREQ: sophomore standing or consent of instructor.

**SOC 250 Women in Society (3,0,3)** Roles of women in American society analyzed and compared with those of women in other societies; cross-cultural perspectives of women; western stereotypes; position of women and men in a changing world.

**SOC 300 Race and Ethnic Relations (3,0,3)** Dominant-minority intergroup relations; prejudice, discrimination, and other intergroup processes; racial and ethnic minorities in U.S. society. PREREQ: SOC 100 or consent of instructor.

**SOC 301 World Patterns of Race and Ethnicity (3,0,3)** Patterns of intergroup relations in multi-ethnic societies (e.g., South Africa, Brazil, Israel, and Northern Ireland); similarities and differences between these and U.S. Same as ANT 301. PREREQ: SOC 100 or ANT 100 or consent of instructor.

**SOC 303 Social Psychology (3,0,3)** Interactionist approach to study of development of the self; social roles; identity; social relationships; creativity; deviance; social control. PREREQ: SOC 100 or consent of instructor.

**SOC 305 Criminology (3,0,3)** Concepts, theories, and major research findings of crime and criminal behavior; analysis of the criminal justice system, including various forms of corrections and rehabilitation. PREREQ: SOC 100 or consent of instructor.

**SOC 307 Social Stratification (3,0,3)** Theories of social class; distribution of wealth, prestige, and power in U.S.; patterns of social mobility. PREREQ: SOC 100 or consent of instructor.

**SOC 308 Social Organization (3,0,3)** Structure and function of organized groups and organizational behavior; formal organization. PREREQ: SOC 100 or consent of instructor.

**SOC 315 Marriage and the Family (3,0,3)** 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. PREREQ: SOC 100 or consent of instructor.

**SOC 318 Occupations (3,0,3)** Importance of the occupational structure for the individual and the larger society; occupational organizations; future of occupations. PREREQ: SOC 100 or consent of instructor.

**SOC 320 Social Research (4,0,4)** 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 or consent of instructor; MAT 205 strongly recommended.

**SOC 321 Applied Social Research (3,0,3)** 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. PREREQ: SOC 100; MAT 205 and SOC 320 strongly recommended.

**SOC 322 Applied Sociology (3,0,3)** History of applied sociology; ethical concerns in applied research; program design and implementation; microcomputer appli-

cations; need assessments; principles and practice of evaluation research. PREREQ: SOC 100, SOC 321, ANT 340, or consent of instructor.

**SOC 330 Sociological Theory (3,0,3)** Major classical and contemporary sociological theories and their exponents. PREREQ: SOC 100.

**SOC 332 Collective Behavior (3,0,3)** 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. PREREQ: SOC 100 or consent of instructor.

**SOC 335 Popular Culture (3,0,3)** 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. PREREQ: SOC 100 or consent of instructor.

**SOC 340 Population (3,0,3)** Fertility, mortality, and internal and international migration; population dynamics; interdependence of demographics and social and economic variable. PREREQ: SOC 100 or consent of instructor.

**SOC 350 Women and Crime (3,0,3)** 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 (3,0,3)** 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. PREREQ: SOC 100 or consent of instructor.

**SOC 357 Guns and Society (3,0,3)** 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. PREREQ: SOC 100 or consent of instructor.

**SOC 360 Technology and Social Change (3,0,3)** Sociological analysis of interaction of technology and society; social issues arising with technological advancement; sociological factors influencing the direction of technological change and the adoption of technology; issues of the role of science in contemporary society. PREREQ: SOC 100 or consent of instructor.

**SOC 380 Elite Deviance (3,0,3)** Sociological examination of corporate and governmental deviance. PREREQ: SOC 100 or consent of instructor.

**SOC 381 Deviance and Social Control (3,0,3)** Forms of social control used to maintain social order; techniques of control ranging from manners to law. PREREQ: SOC 100 or consent of instructor.

**SOC 391 Research Practicum I (3 sem. hrs.)** Placement with agency for supervised experience in developing or applying research skills. Students will also meet with other practicum students and faculty field supervisors. Same as ANT 461-462. PREREQ: SOC 460.

**SOC 394 Topics: Sociology (3,0,3)** A recent development in any phase of sociology. See Schedule of Classes for current topic and prerequisites.

**SOC 400 Urban Society (3,0,3)** Urbanization, industrialization, metropolitanization, and urban ecology; impact of large-scale population aggregations on social institutions; adaptation and adjustment of migrants; developing nations. PREREQ: SOC 100 or consent of instructor.

**SOC 420 Community Corrections (3,0,3)** Community-based corrections, including court diversion, probation, parole, and prison release; careers in community corrections; halfway houses, work release, home incarceration, and furlough programs. PREREQ: SOC 203 or JUS 101; SOC 305 or consent of instructor.

**SOC 425 Political Sociology (3,0,3)** Theories of power and legitimacy; elites and masses; power structures of U.S. and other societies; social correlates of political ideology; socio-political movements. PREREQ: SOC 100, or PSC 100, or consent of instructor.

**SOC 430 Sociology of Religion** (3,0,3) Religion as a social institution; religious behavior; structure and function of religious institutions; interdependence with other social institution. PREREQ: SOC 100 or consent of instructor.

**SOC 450 Medical Sociology** (3,0,3) 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. PREREQ: SOC 100 or consent of instructor.

**SOC 455 Comparative Criminal Justice** (3,0,3) Different criminal justice systems throughout the world; different legal traditions and comparison of procedures in the adversarial-accusatorial and inquisitorial models of law. PREREQ: JUS 101 or SOC 200; SOC 305.

**SOC 460 Research Practicum Preparation** (1,0,1) 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. PREREQ: SOC 322 or ANT 325.

**SOC 488 Sociology of Law** (3,0,3) 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. PREREQ: SOC 100 or consent of instructor.

**SOC 491 Research Practicum II** (3,0,3) Continuation of SOC 461. Same as ANT 462.

**SOC 494 Seminar: Sociology Senior Seminar** (2,0,2) Senior seminar required as a capstone experience for seniors majoring in sociology. PREREQ: core sequence (SOC 100, SOC 320, SOC 330) at least 15 semester hours in sociology, senior standing, or consent of instructor.

**SOC 499 Readings: Sociology** (3,0,3) Specialized topics or research interest. PREREQ: Soc 100 or consent of sociology faculty and of instructor.

**SOC 520 Sociology of Education** (3,0,3) Connection of education to the external social system; education as a web of organizations and associations and as a subsystem of other institutions. PREREQ: SOC 100 or consent of instructor.

## Sports Business

### SPB

**SPB 305 Sports Marketing** (3,0,3) 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. PREREQ: MKT 305.

**SPB 308 Sports Promotion Tools** (3,0,3) This course is designed to analyze the current factors and issues related to the sports promotion mix, including sponsorship planning, sales and negotiations, advertising and community relations. PREREQ: MKT 305.

**SPB 330 Sports Legal Environment** (3,0,3) 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. PREREQ: Junior standing.

**SPB 396 Internship: Sports Business** (3,0,3) Supervised professional work experience in approved sport or sports related organization. PREREQ: SPB 305 or consent of instructor.

**SPB 480 Sports Business Strategies and Policies** (3,0,3) Application of theories to a wide variety of current issues and problems within the sports industry using case analysis. Open only to students certified as majoring in Sports Business. PREREQ: SPB 308, SPB 330 and senior standing.

## Speech

### SPE

**SPE 101 Principles of Speech Communication** (3,0,3) Development of understanding of the oral communication process; aid in improving oral communication skills; idea and message development; effective delivery of ideas; Offered every semester. *A general education course (oral communication).*

**SPE 201 Principles of Effective Listening** (3,0,3) Understanding of listening behavior; methods of improving listening skills. PREREQ: SPE 101

**SPE 220 Interpersonal Communication** (3,0,3) Theories and skills of dyadic interaction in professional and personal contexts; perception, self-concept, non-verbal communication, listening, assertiveness, relationships, conflict management and problem solving. PREREQ: SPE 101

**SPE 230 Small Group Communication** (3,0,3) 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. PREREQ: or COREQ: SPE 220 or consent of instructor.

**SPE 303 Organizational Communication** (3,0,3) Organizational communication theories, models, and processes with practical application of these principles in organizational communication speaking exercises; management and leadership communication skills. PREREQ: SPE 101

**SPE 305 Rhetorical Criticism** (3,0,3) Principles and methods of rhetorical criticism as it relates to a variety of rhetorical artifacts. PREREQ: SPE 101

**SPE 310 Argumentation** (3,0,3) Research organization and argument development and testing, regulation, and cross-examination of a controversial issue. PREREQ: SPE 101.

**SPE 315 Women in Communication** (3,0,3) Course explores the communication and lives of the early feminists who were involved in the abolitionist, temperance, and suffrage movements. Students will learn and understand the importance of these women in relation to contemporary gender issues and barriers through rhetorical analyses of these female leaders' original speech texts. PREREQ: SPE 101.

**SPE 320 Advanced Interpersonal Communication** (3,0,3) Theories, research, and issues relevant to human interaction and interpersonal relationships. PREREQ: SPE 220 or consent of instructor.

**SPE 330 Political Communication** (3,0,3) 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. PREREQ: SPE 101 or consent of instructor.

**SPE 340 Strategies of Persuasion** (3,0,3) Persuasion theory practice, and ethics in preparing and presenting persuasive messages and campaigns. PREREQ: SPE 101.

**SPE 355 Cross-Cultural Communication** (3,0,3) Theory, criticism, and practice of cross-cultural communication, individual experience in communicating inter-culturally, and strategies in cross-cultural communication situations. PREREQ: SPE 101

**SPE 360 Interviewing** (3,0,3) Theory and principles related to a variety of interviewing settings; employment, information, and advising; role of interviewer and interviewee; use of role playing; outside class exercises such as real interviews and written reports. Same as JOU 360 and RTV 365. PREREQ: SPE 101

**SPE 370 Advanced Public Speaking** (3,0,3) Organization, style and delivery of speeches for social occasions, non-classroom settings, and complex setting; speech writing. PREREQ: SPE 101.

**SPE 394 Special Topics in Speech Communication** (3,0,3) Focused study of a specific and significant topic from a communication orientation. Topics vary from semester to semester. May be repeated once for credit. PREREQ: SPE 101 or SPE 220 or consent of instructor.



**SPE 396 Internship: Speech** (0,12,3) Selected placement of qualified students in off-campus speech communication related professions; experience in corporate training, speech writing, interviewing, sales, and groups, communication. PREREQ: written consent of supervising faculty member; junior or senior standing; and a GPA of at least 2.75. PREREQ: SPE 101.

**SPE 400 Contemporary Public Address** (3,0,3) Contemporary speakers and speeches as they relate to social and political issues such as personal vindication, national security, war and peace, and civil rights. PREREQ: SPE 101 or consent of instructor.

**SPE 410 Rhetorical Theories** (3,0,3) Theories of principal rhetoricians from ancient to modern times; classical, British, and contemporary periods of rhetoric. PREREQ: SPE 101

**SPE 430 Communication Theories** (3,0,3) Theories of interpersonal, group, public, and mass communication; historical developments, paradigms, and research that shape communication theory construction. Same as JOU 430 and RTV 430. PREREQ: SPE 101

**SPE 440 Communication Training and Development** (3,0,3) 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. PREREQ: SPE 101 and junior standing.

**SPE 499 Independent Study** (1-3 sem. hrs.) Individually supervised work involving reading, research. Topic is selected before registration in conference with instructor. May be repeated for maximum of 6 semester hours. PREREQ: junior or senior majoring or minoring in speech; a GPA of at least 2.50 or consent of instructor; approved independent study proposal.

## Spanish SPI

**SPI 101 Elementary Spanish I** (3,1,4) Basic principles; oral-aural approach; drill in Spanish intonation, special syntactical problems, and grammar/short readings. *A general education course (humanities).*

**SPI 102 Elementary Spanish II** (3,1,4) Continuation of SPI 101. *A general education course (humanities).* PREREQ: SPI 101 or equivalent.

**SPI 180 Individual Programmed Instruction in Spanish** (1,0,1) Laboratory exercises for students desiring additional work in grammar, pronunciation, and vocabulary. May be repeated once for credit. PREREQ: SPI 101 or equivalent and consent of instructor.

**SPI 201 Intermediate Spanish I** (3,0,3) Review and extension of basic language skills learned in SPI 101 and SPI 102; reading and discussion of cultural, linguistic, and literary subjects. *A general education course (humanities).* PREREQ: SPI 102 or equivalent.

**SPI 202 Intermediate Spanish II** (3,0,3) Continuation of grammar review and enhancement of language skills begun in SPI 201; cultural and literary subjects. *A general education course (humanities).* PREREQ: SPI 201 or equivalent.

**SPI 250 Business Spanish** (3,0,3) Spanish business terminology; practice in writing and translating business letters. For students majoring in business and other seeking to broaden their career opportunities. PREREQ: SPI 202 or equivalent.

**SPI 280 Individual Programmed Instruction in Spanish** (1,0,1) Laboratory exercises for students desiring additional work in grammar, pronunciation, and vocabulary. May be repeated once for credit. PREREQ: SPI 201 or equivalent and consent of instructor.

**SPI 304 Spanish Composition and Conversation** (3,0,3) Advanced practice in writing Spanish compositions and in oral conversation skills. PREREQ: SPI 202 or equivalent.

**SPI 310 Spanish Culture and Civilization** (3,0,3) Study of eras, institutions, and issues in the history and culture of Spain and the Iberian peninsula; readings primarily in Spanish. PREREQ: SPI 202 or equivalent.

**SPI 311 Spanish-American Culture and Civilization** (3,0,3) Eras, institutions, and issues in Spanish-speaking countries of Central and South America; the Hispanic presence in the United States; readings primarily in Spanish. PREREQ: SPI 202 or equivalent.

**SPI 320 Survey of Peninsular Spanish Literature** (3,0,3) Overview of major authors and movements from the middle ages to the 20th century; readings in Spanish. *A general education course (literature or humanities).* PREREQ: SPI 202 or equivalent and 3 semester hours of literature.

**SPI 321 Survey of Spanish-American Literature** (3,0,3) Overview of major authors and movements from the 18th to the 20th century; readings in Spanish. *A general education course (literature or humanities).* PREREQ: SPI 202 or equivalent and 3 semester hours of literature.

**SPI 322 Hispanic Drama** (3,0,3) 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. PREREQ: SPI 202 or equivalent.

**SPI 323 Hispanic Prose Fiction** (3,0,3) Focus on novel, novella, or short story. May be repeated as topics vary. PREREQ: SPI 202 or equivalent.

**SPI 350 Methods of Teaching Spanish** (3,0,3) Theoretical and practical considerations of teaching Spanish in secondary schools. Required of all students seeking teaching certification in Spanish. PREREQ: 6 semester hours of Spanish at the 300 level or above.

**SPI 480 Studies in Spanish and Spanish-American Culture** (3,0,3) Topics in culture and language of Spanish-speaking countries. May be repeated for credit when topics vary. PREREQ: 6 semester hours of Spanish on the 300 level or above or consent of instructor.

**SPI 481 Studies in Spanish and Spanish-American Literature** (3,0,3) Topics in literature, literary history, and literary theory. May be repeated for credit when topics vary. PREREQ: 6 semester hours of Spanish on the 300 level or above or consent of instructor.

**SPI 499 Independent Study: Spanish** (1-3,0,1-3) Readings in language and literature. PREREQ: consent of instructor.

**SPI 520 Readings in Spanish** (3,0,3) Various literary, linguistic, cultural, and pedagogical topics. May be repeated for credit as topics vary. PREREQ: 300-level Spanish course.

## Social Work SWK

**SWK 105 Community Experience in the Social Services** (2,4,3) A community service, 40 hour volunteer experience designed to provide students interested in the social work program with an opportunity to test and evaluate their interest in working with people. An accompanying seminar focuses on analysis of the experience. Required of social work students; open to non-social work students.

**SWK 203 Social Welfare in Contemporary Society** (3,0,3) 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. *A general education course (social science).*

**SWK 303 Professional Interactional Skills** (3,0,3) 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. PREREQ or COREQ: SWK 105 and SWK 203; SPE 101 and junior standing for social work students; open to non-social-work students with consent of instructor.

**SWK 304 The Human Experience: Theoretical Perspectives** (3,0,3) Issues in human development from various theoretical viewpoints; economic, psychological, and socio-cultural factors and their application to social work practice. SWK 105, 203 and junior standing for social work students; open to non-social work students with consent of instructor.

**SWK 305 Social Work Practice I** (3,0,3) 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. PREREQ: SWK 303, 304; COREQ: SWK 306.

**SWK 306 Field Instruction I** (2,16,5) Field placement in a community setting under professional direction; beginning application of a general practice model using appropriate interventions on behalf of client systems. Assignment of two days per week for one semester. Participation in weekly seminar. COREQ: SWK 305.

**SWK 307 The Human Experience II: Literary Perspectives** (3,0,3) Human diversity and minority status as expressed in the arts, especially literature and film; analysis of those factors that serve as resources or barriers to individual competency; the relevance of diversity to social work practice. Open to non-social students with consent of instructor.

**SWK 308 Social Work Research** (3,0,3) Needs assessment, case evaluation, and program evaluation; components of research design and statistics essential for understanding and carrying out these activities.

**SWK 394 Topics: Social Welfare** (1-3 sem. hrs.) A specific aspect of social work practice or social welfare concern. See *Schedule of Classes* for current topic and prerequisites.

**SWK 404 Social Work Practice: Individuals, Families, Groups** (3,0,3) Selected practice modalities applied to social work intervention in small systems; individuals, families, and groups; problem solving approach, task centered case-work, psychosocial model, and behavior modification. COREQ: SWK 406.

**SWK 405 Social Work Practice: Community Organization** (3,0,3) 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. COREQ: SWK 408.

**SWK 406 Field Instruction II** (2,16,5) Field placement of 16 hours per week in a community social service agency under supervision of professional staff; increased ability to apply knowledge and skill to social work interventions. Participation in weekly seminar. COREQ: SWK 404.

**SWK 407 Social Welfare Policy** (3,0,3) 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. Open to non-social work students with consent of instructor.

**SWK 408 Field Instruction III** (2,16,5) Continuation of field placement of 16 hours per week in a community social service agency. Application to advanced knowledge and skill in social work intervention. Participation in weekly seminar. COREQ: SWK 405.

**SWK 411 Social Work and the Law** (3,0,3) The interrelationship of social work and the law; understanding the court system; testifying in court; legal services for low income people; legal regulation of social work practice; implications of significant issues involving the social worker.

**SWK 499 Independent Study I** (1-3 sem. hrs) 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 499 Independent Study II** (1-3 sem. hrs.) 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** (3,0,3) Historical and contemporary perspectives; etiology, assessment, and intervention; differential and complementary roles of professions; approaches to prevention and treatment.

**SWK 520 Services to Women** (3,0,3) 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** (3,0,3) Various categories of drugs; treatment and rehabilitation programs; ways of developing and implementing drug education programs.

**SWK 594 Topics: Issues in Social Welfare** (1-3 sem. hrs.) A specific aspect of social welfare practice or social welfare concern. See *Schedule of Classes* for current offerings and prerequisites.

## Theatre

### TAR

**TAR 100 Theatre Appreciation** (3,0,3) All aspects of theatre; development of understanding and application from the audience's point of view. Not applicable to major in theatre arts. *A general education course (fine arts or humanities).*

**TAR 101 Essentials of Theatre** (3,0,3) Basic elements of theatre. Required of students majoring or minoring in theatre arts.

**TAR 102 Survey of Race and Gender in Dramatic Literature** (3,0,3) Discussion and analysis of race and gender issues faced by individuals of families in drama. *A general education course (race/gender).*

**TAR 110 Acting I** (3,0,3) Basic principles and techniques.

**TAR 111 Creative Expression through Acting** (3,0,3) History, theory and practice tracing the development of the human utilization of acting as a cultural tool within an historical perspective. *A general education course (fine arts or humanities).*

**TAR 114 Voice Development for the Actor I** (3,0,3) Speech development as related to theatre; elimination of regional accents; introductory work with the International Phonetic Alphabet.

**TAR 118 Stage Appearance** (3,1,3) Basic principles of stage makeup and elements of costumes as used for the stage.

**TAR 160 Stagecraft** (2,0,2) Basic elements of scenery construction: overview of theatrical production emphasizing practical application COREQ: TAR 160L.

**TAR 160L Stagecraft Laboratory** (0,2-4,1) Practical application of elements acquired in TAR 160. COREQ: TAR 160.

**TAR 165 Comparative Arts** (3,0,3) Comparative study of the evolution of the fine arts as influenced by political-socio-economic conditions. *A general education course (fine arts).*

**TAR 190-191** See TAR 490-491.

**TAR 210 Acting II** (3,0,3) Additional development of acting techniques and perceptions; greater emphasis on scene work and character development. PREREQ: TAR 110.

**TAR 211 Special Topics in Theatre** (1-3, 0, 1-3) Introduction to specialized theatre areas of study. May be repeated up to 9 hours.

**TAR 213 Stage Combat I** (3,0,3) Introduction to stage combat; hand fighting, quarterstaff, broadsword, and rapier and dagger; the stage fight in various periods and styles of dramatic literature. PREREQ: TAR 110 and consent of instructor.

**TAR 225 Musical Theatre Performance I** (3,0,3) Introduction to performance techniques; synthesis of voice, acting, and movement; beginning vocal technique as applied to musical theatre repertoire. PREREQ: consent of instructor.

**TAR 260 Lighting Fundamentals** (3,0,3) Practical exploration of the scientific principles and theories and practices of stage lighting, including electricity, optics, color theory, dimming and control systems. PREREQ: TAR 160.

**TAR 262 Costume Construction** (2,0,2) Basic principles of costume building with opportunities for practical application in preparing costumes for university productions. COREQ: TAR 262L.

**TAR 262L Costume Construction Laboratory** (0,2-4,1) Practical application of skills and techniques acquired in TAR 262. COREQ: TAR 262.

**TAR 265 Fundamentals of Theatrical Design** (3,0,3) 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. PREREQ: TAR 101 or TAR 160.

**TAR 277 Fundamentals of Sound Technology** (3,0,3) 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. PREREQ: TAR 160.

**TAR 290-291** See TAR 490-491

**TAR 310 Acting III** (3,0,3) Advanced acting techniques and considerations; detailed scene analysis and repertory building. PREREQ: TAR 210 or consent of instructor.

**TAR 311 Auditions** (3,0,3) Specialized techniques necessary for actors to relate to the auditioning experience; building an appropriate repertory of material, preparing the resume, and developing the "persona." PREREQ: at least two acting/dance courses or consent of instructor.

**TAR 313 Stage Combat II** (3,0,3) Advanced stage fighting techniques in various weapons and styles; study in history, terminology, and related dramatic literature; preparation for certification test with Society of American Fight Directors. PREREQ: TAR 213.

**TAR 314 Stage Dialects** (3,0,3) 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. PREREQ: TAR 114, TAR 312 and TAR 110, or consent of instructor.

**TAR 315 Voice Development for the Actor II** (3,0,3) Advanced speech development techniques and exercises as applied in performance situations; advanced work in Oral Interpretation and Readers Theatre. PREREQ: TAR 114 or consent of instructor.

**TAR 316 Acting Seminar I** (2,4,2-6) 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. PREREQ: TAR 310 or consent of instructor.

**TAR 318 Advanced Stage Makeup** (3,0,3) Advanced techniques of stage makeup and wig and hair styling. PREREQ: TAR 118.

**TAR 325 Musical Theatre Performance II** (3,0,3) Development of musical theatre repertoire for audition, study, and performance; synthesis of voice, acting, and movement; various musical theatre genres and historical styles. PREREQ: TAR 225 and consent of instructor.

**TAR 340 Playscript Analysis** (3,0,3) Systems of interpretation applicable to all types of dramatic literature, necessary to production of plays, and relevant for directors, actors, designers, and other practitioners. PREREQ: TAR 100 or TAR 101, ENG 101; ENG 291 recommended.

**TAR 343 History of Costume and Decor I** (3,0,3) Architectural, interior design, costume, and furniture history from antiquity through Baroque period as applied to production design; methods and courses of research for design in theatre. PREREQ: TAR 100 or TAR 101, and TAR 160, or consent of instructor.

**TAR 346 History of the Theatre and Dramatic Literature I** (3,0,3) History of significant developments in theatre and dramatic literature from pre-Greek times to the mid-15th century. PREREQ: ENG 101, TAR 100 or TAR 101, and TAR 160 or consent of instructor.

**TAR 347 History of the Theatre and Dramatic Literature II** (3,0,3) History of significant developments in theatre literature from the mid-15th century to the mid-17th century. PREREQ: TAR 346 or consent of instructor.

**TAR 355 Musical Theatre Literature I** (3,0,3) American musical theatre literature from late 19th century to mid-20th century; musical and dramatic movements that created American musical theatre. PREREQ: ENG 101.

**TAR 360 Scene Design I** (3,0,3) Principles of design related to stage scenery; historical modes of stage design; 20th century stage decoration. PREREQ: TAR 160 and TAR 368 or consent of instructor.

**TAR 361 Design and Construction of Stage Properties and Special Effects** (3,0,3) Design skills and building techniques involved in props and effects for the stage. PREREQ: TAR 160.

**TAR 362 Drafting for the Theatre** (3,0,3) 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. PREREQ: TAR 160.

**TAR 363 Lighting Design** (3,0,3) 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. PREREQ: TAR 260.

**TAR 365 Costume Crafts** (3,0,3) Specific problems of costume decoration, draping, and projects for musical theatre and opera. PREREQ: TAR 262.

**TAR 366 Costume Design I** (3,0,3) Application of principles of design to stage costuming; fabrics, figure drawing, and characterization. PREREQ: TAR 368 or consent of instructor; TAR 343 and TAR 443 recommended.

**TAR 367 Stagecraft II** (3,0,3) 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. PREREQ: Tar 160 and consent of instructor.

**TAR 368 Theatrical Rendering and Model Building** (3,0,3) Techniques employed in sketching and preparing drawings for scenic and costume designs and in constructing models for scenic design. PREREQ: TAR 160.

**TAR 370 Directing I** (3,0,3) Basic principles of play directing, play selection, casting, and rehearsal; direction and presentation of selected scenes in class. PREREQ: TAR 101, TAR 110 or 111, and TAR 160.

**TAR 371 Theatre Management** (3,0,3) Duties and responsibilities of those entrusted with areas like house management, public relations, and publicity in theatre activities. PREREQ: TAR 100 or TAR 101, and TAR 160 and TAR 110 or TAR 111.

**TAR 376 Stage Management** (3,0,3) Duties and responsibilities of the theatrical stage manager. PREREQ: TAR 100 or TAR 101, TAR 160, and TAR 110 or TAR 111.

**TAR 377 Sound Design** (3,0,3) 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. PREREQ: TAR 227.

**TAR 380 Playwriting** (3,0,3) Art and craft of writing dramatic material for stage presentation. PREREQ: ENG 101 and ENG 291, or ENG 151; TAR 340 recommended.

**TAR 390-391** See TAR 490-491.

**TAR 410 Styles of Acting** (3,0,3) Major acting styles; practical application through presentation and evaluation of representative sciences and excerpted materials. PREREQ: TAR 310 or consent of instructor.

**TAR 411 Special Problems in Theatre (Acting)** (3-9,0,3-9) 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. PREREQ: TAR 110, TAR 210, and TAR 310, or consent of instructor.

**TAR 412 Internships in Professional Theatre (Performance)** (3-6,0,3-6) 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. PREREQ: permission of the chair of theatre.

- TAR 414 NKU Tour Troupe** (0,2-6,1-3) Touring performance troupes designed to represent the University in functions around the state and region. May be repeated for credit. PREREQ: audition.
- TAR 416 Acting Seminar II** (2,4,2-6) Advanced acting coaching and repertory building. Small group work for advanced students who have completed preliminary acting training. May be repeated for credit. PREREQ: TAR 310.
- TAR 417 Acting Shakespeare** (3,0,3) 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. PREREQ: TAR 310 or consent of instructor.
- TAR 418 Process and Production** (4,0,4) 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. PREREQ: TAR 110 and TAR 210 and TAR 310 and consent of instructor.
- TAR 425 Musical Theatre Performance III** (3,0,3) Continuation of TAR 325; advanced techniques in specific areas of musical theatre performance including topical revue, auditioning, solo shows, and musical scenes. PREREQ: TAR 325 and consent of instructor.
- TAR 441 Special Problems in Theatre (History, Theory, and Criticism)** (3-6,0,1-9) See TAR 411. PREREQ: two TAR Group III courses or consent of instructor.
- TAR 442 Dramatic Theory and Criticism** (3,0,3) Major documents in dramatic theory and criticism from Plato and Aristotle to the present. PREREQ: consent of instructor.
- TAR 443 History of Costume and Decor II** (3,0,3) 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. PREREQ: TAR 343 or consent of instructor.
- TAR 446 History of the Theatre and Dramatic Literature III** (3,0,3) History of significant developments in theatre and dramatic literature from the mid-17th century to 1915. PREREQ: TAR 346 and TAR 347 or consent of instructor.
- TAR 447 History of the Theatre and Dramatic Literature IV** (3,0,3) History of significant developments in theatre and dramatic literature from 1915 to present day. PREREQ: TAR 346, TAR 347, and TAR 446 or consent of instructor.
- TAR 452 Special Problems in Theatre (Literature)** (3-9,0,3-9) 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** (3,0,3) American musical theatre literature from mid-20th century to the present.
- TAR 460 Scene Design II** (3,0,3) Advanced elements of design for the theatre; historical modes of stage design and advanced examination of design theories related to theatre practice. PREREQ: TAR 360.
- TAR 461 Scene Painting** (3,0,3) Practical analysis and application of scene painting skills; materials (paints, dyes, fabrics) and equipment. PREREQ: TAR 160 or consent of instructor.
- TAR 462 Costume Design II** (3,0,3) Advanced theory and techniques; special problems in musicals, operas, children's theatre, and non-traditional styles. PREREQ: TAR 366.
- TAR 464 Special Problems in Theatre (Technology)** (3-9,0,3-9) 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. PREREQ: two TAR Group IV courses or consent of instructor.
- TAR 465 Advanced Lighting and Projections** (3,0,3) Advanced theory and technique in lighting design for theatre, opera, and dance; automated fixtures, imaging tools, and systems components. PREREQ: 9 semester hours of TAR technology and consent of instructor.
- TAR 466 Costume Construction II** (3,0,3) Advance costume construction techniques, including pattern drafting, cutting, draping; practical application in preparation for university productions. Spring. PREREQ: TAR 262 or consent of instructor.
- TAR 468 Advanced Scenic Art** (3,0,3) Advanced projects in painting, sculpting, lettering, and special materials in scenic art for the theatre. PREREQ: TAR 361.
- TAR 470 Directing II** (3,0,3) Advance principles of directing; history of directing; problems encountered in directing period plays. PREREQ: TAR 370.
- TAR 471 Summer Dinner Theatre** (3 sem. hrs. each production) 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. PREREQ: permission of the chair of theatre.
- TAR 473 Creative Dramatic/Children's Theatre** (3,0,3) Theory and practice of theatre as a teaching and learning experience; theatre for children. PREREQ: TAR 100 or TAR 101 and TAR 110 or TAR 111.
- TAR 474 Special Problems in Theatre (Directing/Management) (3-9,3-9)** Opportunity for additional advanced work in the theatre student's areas of concentration; multiple opportunities for performing artist's involvement in electives in specific areas of interest. PREREQ: TAR 370 and TAR 470, or consent of instructor.
- TAR 477 The Business of Theatre** (1,0,1) Practical problems of working in the theatre; resume, union affiliation, use of theatrical agents, and additional professional training. PREREQ: senior status or junior status and consent of instructor.
- TAR 480 Reviewing** (3,0,3) Essential of the research, backgrounds, and sources for criticism of performance events, including theatre, films, television, and dance. Students will write numerous critiques of dramatic events within the community. PREREQ: ENG 10;1 and ENG 291, or ENG 151.
- TAR 481 Special Problems in Theatre (Playwriting/Criticism)** (3-9,0,3-9) 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. PREREQ: TAR 380.
- TAR 482 Screenwriting** (3,0,3) Introduction to the elements of film script production and techniques involved in writing for the screen. Same as ENG 491. PREREQ: ENG 101 and ENG 291, or ENG 151; TAR 340 recommended.
- TAR 490-491, 390-391, 290-291, 190-191 Production Credits** (0,2-4,1) 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 performance. PREREQ: TAR 160.
- TAR 495 Senior Project** (0,2-4,1) 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. PREREQ: senior BFA status.
- TAR 498-499 Individual Studies in Theatre** (1-3,0,1-6 each) 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 theatre arts. PREREQ: consent of chair of theatre.

## University

### UNV

- UNV 101 Orientation to College and Beyond** (3,0,3) 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** (3,0,3) 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 role models for new students. Prerequisites: junior standing; minimum GPA of 3.0; instructor consent.

### Women's Studies

#### WMS

**WMS 150 Introduction to Women's Studies** (3,03,0) Interdisciplinary and cross-cultural readings on social, political, economic, and personal condition of women in a multi-ethnic society; complex ways of social construction of gender; interaction of gender, race, and class on women's lives. *A general education course (race/gender perspective).*

**WMS 310 Women, Wages, and Work** (3,0,3) 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 background. PREREQ: sophomore standing. *A general education course (race/gender perspective).*

**WMS 381 Women and Literature** (3,0,3) Advanced readings and discussion of literary works by women or images of women in literature. May be repeated for credit when subjects differ.

**WMS 382 Women and Society** (3,0,3) 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.

**WMS 383 Women and World Cultures** (3,0,3) 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.

**WMS 384 Women, Nature, and the Inner Self** (3,0,3) 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.

**WMS 385 Women and Human Care** (3,0,3) Readings and discussion in the general area of caring for the elderly or children; shaping non-sexist practices and

behaviors in education; or traditional and alternative social, medical, or mental health services for women. May be repeated for credit when subjects differ.

**WMS 386 Women and the Law** (3,0,3) Readings and discussion concerning women in law enforcement, the law, or politics; women as the victims of perpetrators of crime; modes of changing the law in issues affecting women. May be repeated for credit when subjects differ.

**WMS 387 Women and the Arts** (3,0,3) Works representing women's achievements in theater, art, and music; problematic portrayals of women in the arts and in mass culture; protests through art of issues affecting women's lives. May be repeated for credit when subjects differ.

**WMS 388 African-American Women's History and Culture** (3,0,3) This discussion-oriented course is a history of African-American women that begins by examining African women and their cultures prior to European contact and ends with a look at women in the civil Rights Movement. This course satisfies Afro-American Studies history option. Same as HIS 438.

**WMS 394 Topics: Women's Studies** (3,0,3) Interdisciplinary and intensive study of a specific and significant topic in 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.

**WMS 494 Seminar: Women's Studies** (3,0,3) Theory and research practices characterizing women's studies and their effect on traditional academic disciplines; designing research projects. Information and methodology from each discipline presented by women's studies faculty. PREREQ: completion of one women's studies course.

**WMS 499 Independent Study** (1-3,0,1-3) 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. PREREQ: completion of one women's studies course.

**WMS 594 Topics Women's Studies** (3,0,3) Advanced interdisciplinary study of a specific topic or issue of particular significance to women. May be repeated for credit when subjects differ.

# FACULTY

- Abraham, Joumana**, Instructor of Management (1999). B.B.A., 1991, Marymount University; MBA, 1998, University of Dubuque.
- Acosta, Charles A.**, Assistant Professor of Biology (2001). B.S., 1989, M.S., 1991, University of New Orleans; Ph.D., 1997, Old Dominion University.
- Adams, Michael C.**, Regents Professor Emeritus of History (1972). A.B., 1966, University of Wales; M.A., Ph.D., 1973, University of Sussex.
- Adams, Susan S.**, Professor Emeritus of English (1980). B.A., 1964, B.S., 1965, M.A., 1967, Ph.D., 1975, University of Cincinnati.
- Agard, David B.**, Associate Professor of Mathematics (1990). B.A., 1982, University of Virginia; M.S., 1985, Ph.D., 1990, Virginia Polytechnic Institute and State University.
- Ahmed, Shamima**, Associate Professor of Political Science (1995). B.S.S., 1980, M.S.S., 1983, University of Dhaka; M.A., 1986, University of Akron; Ph.D., 1991, Virginia Polytechnic Institute and State University.
- Alberti, John F.**, Associate Professor of English (1991). B.A., 1981, University of Southern California; M.A., 1984, Ph.D., 1989, University of California, Los Angeles.
- Albright, A.D.**, Professor Emeritus (1976). A.B., 1937, Milligan College; M.S., 1938, University of Tennessee; Ph.D., 1951 New York University.
- Allen-Kattus, Kimberly**, Assistant Professor of Art/Art History (1993). B.A., 1976, Indiana University; M.A., 1981, University of Cincinnati; Ph.D., 1996, Union Institute.
- Allred, Carol B.**, Professor of Law and Director, Salmon P. Chase College of Law Library (1981). B.A., 1959, Newcomb College; M.A., 1960, Tulane University; M.S.L.S., 1971, Louisiana State University; JD, 1979, Georgetown University Law Center.
- Allyn, Compton**, Professor Emeritus of Management (1973). B.S., 1946, University of Virginia; M.B.A., 1949, Harvard University; M.Div., 1954, Episcopal Theological School; Ph.D., 1973, University of Cincinnati.
- Almquist, Arne J.**, Associate Professor of Library Services and Associate Provost for Library Services (2001). B.F.A., June 1980, B.A., Sept. 1980, State University of New York at Buffalo; M.F.A., 1982, SUNY-Buffalo; M.S.I.S., 1992, University of North Texas.
- Amburgey, Valeria**, Professor of Education, Coordinator for Technology (1990). B.S. Ed., 1972, Stephen F. Austin State University; M.Ed., 1979, Ed.D., 1984, University of Houston.
- Andersen, Barry**, Professor of Art/Photography (1975). B.A., 1973, California State University, Northridge; M.F.A., 1975, University of Florida.
- Anderson, Margaret M.**, Professor of Nursing & Health Professions, Chair (1994). B.S.N., 1967, Indiana University at Indianapolis; M.Ed., 1972, University of Cincinnati; M.S.N., 1980, Wright State University; Ed.D., 1990, University of Cincinnati.
- Arias, Marcia Littley de**, Artist-in-Residence (2000). B.M., 1991, The Juilliard School; M.M., 1992, Louisiana State University; Artist Diploma, 1995, College-Conservatory of Music, University of Cincinnati.
- Arias-Flores, Javier**, Artist-in-Residence (2000). B.M., 1991, The Juilliard School; M.M., 1992, Louisiana State University; Artist Diploma, 1995, College-Conservatory of Music, University of Cincinnati.
- Arora, Anjana Ganjoo**, Assistant Professor of Education (1999). B.S., 1978, Punjabi University; M.S., 1980 Punjabi University; M. Phil., 1983, Punjabi University; B.Ed., 1987, Annamalai University; 1987; M.Ed., 1991, University of Nebraska, Lincoln; Ph.D., 1995, University of Nebraska, Lincoln.
- Arrighi, Barbara A.**, Associate Professor of Sociology (1991). B.S., 1982, M.A., 1986, Ph.D., 1991, University of Cincinnati.
- Artzer, Marjorie E.**, Associate Professor Emeritus of Education (1991). B.A., 1968, University of Nebraska, Omaha; M.A., 1972, George Peabody College for Teachers; Ph.D., 1990, Miami University.
- Attenweiler, Bill**, Assistant Professor of Psychology (2002). B.A., 1975, University of Maine at Orono; M.S., 2000, Clemson University, Ph.D., 2002, Clemson University.
- Baker, Michael**, Cooperating Assistant Professor of Accounting (1990). B.S., 1975, Northern Kentucky University; M.B.A., 1981, Xavier University.
- Baldrige, Hildegard A.**, Lecturer Biological Sciences (2002). B.S., 1977, Eastern Kentucky University; Ph.D., 1983, University of Kentucky.
- Bales, Richard A.**, Associate Professor of Law (1998). B.A., 1990 Trinity University, JD, 1993, Cornell Law School.
- Bardgett, Mark E.**, Assistant Professor of Psychology (2000). B.A., 1986, University of Missouri at St. Louis, M.A., 1989, Ph.D., 1991, University of Missouri at St. Louis.
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- Hastings, Jon M.**, Professor of Biology (1987). B.A., 1971, Kent State University; M.S., 1975, Ph.D., 1985, University of New Mexico.
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# KENTUCKY RESIDENCY POLICY

## RESIDENCY POLICY (excerpts)

The following information is for general information only and is not meant to be anything other than an example of the governing documents pertaining to the establishment of Kentucky residency. This does not supplant the legal document that details the exact nature of residency which can be found at: [http://www.cpe.state.ky.us/policies/policies\\_student\\_residency.asp](http://www.cpe.state.ky.us/policies/policies_student_residency.asp).

The State of Kentucky will assume you are NOT a resident if:

1. You had an out-of-state address on your application for admission;
2. You moved into Kentucky primarily to enroll in the university;
3. You moved into Kentucky and, within 12 months of that move you have enrolled at a Kentucky institution for more than the number of hours considered half-time;
4. You have been in continuous absence from the state for one year.

You can challenge your status designation by presenting proof among other documents that you have:

1. 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;
2. lived in Kentucky continuously as a non-student for 12 months before the semester in which you plan to enroll;
3. prepared an income tax form that shows a change of address or the payment of Kentucky withholding taxes for the calendar year;
4. been employed full-time for 1 year while living in Kentucky;
5. obtained a professional license or certification in Kentucky;
6. paid real property taxes in Kentucky;
7. owned real property that was used by you as a residence before the date of application for a determination of residency status;
8. obtained a long-term lease of at least 12 consecutive months of non-collegiate housing;
9. married a Kentucky resident;
10. continued presence in Kentucky during academic breaks; and,
11. rely on a certain level of dependency on student financial aid in order to provide basic sustenance.

# GLOSSARY OF TERMS

This glossary contains definitions of terms and abbreviations used throughout the catalog. Students can consult this list for more specific information about common terms connected to programs, courses, and policies.

**ACADEMIC TERM** – A period of instruction. During the fall and spring, the term is a standard 16-week semester. During the summer, various length periods of instruction are offered: intercession of approximately two weeks, two five-week sessions, a six-week session, an eight-week session, and a full session. The term regular semester refers to fall or spring semester.

**ACADEMIC YEAR** – For the student, the traditional annual cycle of academic terms: fall, spring, and summer.

**ACADEMIC SUSPENSION** – Denial of all registration privileges for a specified period of time (usually two full semesters) because of failure to meet academic standards.

**ACADEMIC PROBATION** – The failure of a student to meet the standards required for good standing. Student will be placed on academic probation for one semester.

**ACCREDITATION** – Certification that the College or program has met established standards and is recognized by appropriate accrediting agencies.

**ADMISSION** – Status of students who have applied and have been accepted to the university.

**AUDIT** – A registration status which allows a student to attend and to participate in a course without benefit of a grade or credit.

**ADDITIONAL REQUIREMENTS** – Courses from one or more departments or programs that are required in support of the major. Such courses are not included in the minimum 2.0 grade point average required in the major for graduation and may be waived or substituted at the discretion of the major department or program. Additional requirements normally may be applied toward a minor. They also may be applied toward General Education requirements unless specifically prohibited by the department certifying the major.

**AREA OF CONCENTRATION** – Twelve semester hours of authorized related 300-level or above courses, outside the student's major, that complete the requirement for a secondary area of study.

**ASSOCIATE'S DEGREE** – Degree awarded upon satisfactory completion of a prescribed, planned program with at least 60 credits, including general education, communication, and computation requirements.

**BACCALAUREATE** – Bachelor's degree: the traditional undergraduate degree. Awarded for completion of an undergraduate program of study with a minimum of 128 semester hours, the last 30 of which must be taken at Northern. Bachelor's degree's are comprised of general education courses, a major, elective courses, and in some cases a minor.

**BACHELOR OF ARTS (BA)** – Baccalaureate degree awarded from the College of Arts and College of Education & Sciences and/or the College of Professional Studies. Degree requirements include a minimum of 128 semester hours, a grade-point average (GPA) of at least 2.00 on all work successfully attempted at Northern, and forty-five semester hours of 300-level or above completed coursework.

**BACHELOR OF SCIENCE (BS)** – Baccalaureate degree awarded from the College of Arts & Sciences, College of Business, and the College of Professional Studies. Degree requirements include a minimum of 128 semester hours, a grade-point average (GPA) of at least 2.00 on all work successfully attempted at Northern, and forty-five semester hours of 300-level or above completed coursework.

**BOARD OF REGENTS** – The governing body of the State University System.

**BURSAR** – Office responsible for assessment and collection of tuition and fees.

**CAPSTONE** – A course, project, paper, presentation, event, or exhibit that must be completed, usually in the senior year, before graduation. A capstone demonstrates in an integrated way everything that has been learned during a major.

**CATALOG EXPIRATION** – Catalog regulations effective for a period of eight years.

**CATALOG IN EFFECT** – The university catalog in effect at the time of a student's first enrollment as a degree seeking student. Governs graduation requirements in absence of an authorized catalog change form filed with Office of the Registrar.

**CONSORTIUM** – A group of member institutions which offer courses to NKU students. Member institutions include: Art Academy of Cincinnati, Athenaeum of Ohio, Chatfield College, Cincinnati Bible College & Seminary, Cincinnati State Technical and Community College, College of Mt. St. Joseph, Hebrew Union College-Jewish Institute of Religion, Miami University, Northern Kentucky University, Thomas Moore College, Union Institute, University of Cincinnati, Wilmington College, and Xavier University.

**CONTACT HOURS** – The number of weekly hours student meets in a class, lab, studio, clinical, or class/lab.

**CONTINUOUS ENROLLMENT** – Enrollment not interrupted by non-attendance for either consecutive fall and spring semesters, or consecutive spring, summer, and fall semesters. Continuous enrollment is automatically broken by the act of disqualification or exclusion and starts over with the next term of enrollment.

**CORE REQUIREMENTS** – A common set of courses within a major or minor that all students are required to complete.

**COREQUISITE (COREQ:)** – A course which must be taken concurrently with one or more additional courses. Subject matter is usually similar or complementary. Corequisites are shown at the end of course descriptions.

**COURSE LOAD** – The total number of semester hours registered for in a given academic term.

**CREDIT CONTINUING EDUCATION** – Coordinate college credit opportunities for nontraditional students, their communities, and their employers.

**CROSSLISTED COURSE** – A course listed for credit under more than one discipline. The course may be taken only once for credit.

**CUMULATIVE GRADE POINT AVERAGE** – An average GPA calculated by dividing the total number of quality points/grade points obtained (credit hours X grade points) by the number of credit hours attempted during all academic sessions.

**DEGREE** – A title which the university confers on a student who has satisfactorily completed a required course of study. Degree requirements are established by the University, colleges and departments, and are approved by the University faculty, administration, and authorized by the Kentucky Council on Postsecondary Education.

**DIRECTED ELECTIVE** – One of a specified group of courses within the major/minor from which students must make selections within a major or minor.

**DISCIPLINE** – A recognized subject area or field of study within which courses and research are structured.

**DISTANCE LEARNING** – Courses offered for credit by an alternative means of delivery for students who need college credit but are unable to travel to campus on a regular weekly basis, e.g. telecourses, interactive video, or online computer communications.

**DOUBLE-COUNTING** – Allowing one course to fulfill two separate requirements concurrently; e.g., allowing one course to fulfill both a major requirement and the upper-division writing skills requirement, or allowing one course to fulfill both a major or minor requirement and a General Education CORE requirement.

**DOUBLE MAJOR** – Earning a baccalaureate degree in two separate disciplines/majors, e.g. a Bachelor of Arts in History and English degree or a Bachelor of Science in Finance and Industrial Relations degree. Student must meet all requirements for each major. Student pursuing two or more majors concurrently must designate one major as the primary major.

**DROP/ADD** – A period of time when students can alter class schedules by dropping or adding courses or changing sections of a course. Begins after a student registers and generally ends after the first week of classes each semester.

**ELECTIVES** – Courses selected at a student's discretion. Electives may be partially restricted, such as a selection from a specified group of courses identified to fulfill a par-

ticular requirement or they may be “free” electives which may be selected from any course for which the student has proper prerequisites. Electives provide opportunities for students to pursue personal interest and to gain general knowledge.

**ENROLLMENT** – Registration for course work and payment of fees constitutes official enrollment.

**FOCUS** – Six to nine semester hours of courses, typically in a single discipline, within the minor.

**FREE ELECTIVES** – A course, chosen from all available ones, in an area of the students interest. Student must meet all prerequisites.

**FULL-TIME ENROLLMENT** – Usually a minimum of 12 semester hours in the fall and spring terms and a minimum of 9 semester hours in the summer term.

**GENERAL EDUCATION** – A university-wide requirement of basic courses that form the foundation of all undergraduate degree programs.

**GOOD STANDING** – A sliding scale of academic status achieved by students for semester hours attempted. Determines eligibility of students to continue to register for university course work.

**GRADE POINT AVERAGE (GPA)** – A measure of academic scholarship and performance which is computed by dividing credit hours attempted into grade points earned to determine the mean average grade of all courses taken for credit. Does not include courses taken as pass/fail.

**GRADUATE STUDENT** – A student who has earned a baccalaureate degree and who has been admitted to the Graduate School to pursue a master’s graduate degree program.

**GRADUATION HONORS** – graduating seniors are eligible for cum laude designations on diplomas and transcripts if their complete academic records show at least 64 hours in residence at the University and meet the following criteria:

- cum laude: 3.50-3.74 total GPA
- magna cum laude: 3.75-3.89 total GPA
- summa cum laude: 3.90-4.00 total GPA

**INDEPENDENT STUDY** – An upper-division course designated by a special number within a discipline. Allows a student to pursue an individual project independently, for credit, under the supervision of an instructor. Requires consent of the instructor.

**JOINT DEGREE** – Designated as a specific graduate-level program which, upon the successful completion of all requirements, awards a Juris Doctor/Master of Business Administration degree.

**KENTUCKY VIRTUAL UNIVERSITY (KYVU)** – A student-centered, technology-based system for the delivery of postsecondary education that is accessible, efficient, and responsive. Based on the Home Campus concept of organization. All transactions (e.g. registration, billing, payments, book orders, etc.) are handled by a single entity either a campus or the KYVU.

**KTLN (K)** – Kentucky TeleLinking Network offering distance learning and interactive video courses across the state.

**KET COURSES** – Telecourses, where lecture and other visual material is presented via television (KET and Insight Cable) for students who need college credit but are unable to travel to campus more than three to five times a semester.

**LEARNING COMMUNITY CLASS (L)** – One of three popular courses grouped together for first-semester students.

**LEARNING COMMUNITY** – Small group of first-semester students who take three popular courses together.

**LEC, LAB** – Abbreviations for the words lecture and laboratory used to indicate how many credit hours are earned in lecture and how many in laboratory sections (for example, 3 Lec., 1 Lab).

**MAJOR** – A set of required courses from one or more departments in a subject of academic study chosen as the student’s principal field of study. Designed to provide students with the knowledge, skills, and experiences necessary to pursue a specific career and/or advanced study.

**MASTER’S DEGREE** – A postbaccalaureate degree offered in accountancy, business administration, computer science, education, information systems, nursing, public administration and technology. All master’s degree candidates must maintain a 3.00 GPA

and complete the degree coursework within a twelve-year period. Graduate programs vary according to department.

**MATRICULATION** – Enrollment as an admitted, degree-seeking student.

**MINOR** – An officially-recognized secondary field of study requiring fewer units than the major. A minor must be in an approved subject area. Less comprehensive than the major.

**OPEN REGISTRATION** – Registration period for students who did not register during priority or early registration to select and enroll in courses. Typically for new students who have received written notification of acceptance from the Office of Admissions or continuing students.

**PCC** – Pre-college curriculum requirements established by the Kentucky Council on Postsecondary Education for all students seeking admission to the university.

**PCC DEFICIENCY** – Students who have not met the pre-college curriculum deficiency or who have ACT or SAT scores below those required for entrance into college-level courses. Admitted to university with stipulated or restricted admission status.

**PREREQUISITE (PREREQ:)** – Requirement or requirements that must be taken and passed before a higher level course may be taken. Sometimes, permission of the instructor or another requirement (such as graduate status) may be a prerequisite for a course. Prerequisites may include: (1) Course or courses that must be completed before a higher-level course may be taken, sometimes allowed by the instructor to be taken concurrently; (2) Courses outside the major department that must be completed before admission to the major; (3) successful completion of high school courses (as in languages); (4) minimum SAT or ACT scores or sub-scores; (5) minimum placement test scores; or (6) acceptance into a certain program.

**PRIORITY REGISTRATION** – Designated period of early registration for currently enrolled students.

**PROBATION/SUSPENSION POLICY** – A student who fails to meet the requirements for good standing will be placed on probation for one semester. Failure to meet the required cumulative GPA levels for good standing status by the end of the probationary semester will result in suspension unless the student’s GPA is a least 2.00. No student will be suspended without having attempted at least 15 semester hours. While on probation, a student’s coursework and extracurricular activities are restricted.

**QUALITY POINTS** –The number points attributed to a grade (A=4, B=3, C=2, etc.) times the number of credit hours in the course.

**REGISTRAR** – Department responsible for registering students into classes, maintaining academic records, and certifying degree requirements for graduation.

**RESTRICTED ADMISSION** – Students with pre-college curriculum deficiency or with two or more low ACT scores. Designated at University Studies students who may not declare a major until the deficiencies/low scores have been resolved by appropriate courses.

**SERVICE COURSE** – A course approved for the General Education Program which also will fulfill specific College or department degree requirements.

**SPECIALIZATION** – A defined course of study that includes at least 12 hours in the discipline (other than core courses for the major) designed to prepare students for a specific profession or career.

**SPRINT COURSE** – A course earning full-semester credit which is scheduled within a compressed time period, usually 10 weeks.

**STIPULATED ADMISSION** – Student accepted for admission when he or she has no more than one low ACT test score or has demonstrated readiness for college courses through placement testing in all but one “low ACT test score” subject area.

**TRANSCRIPT** –An official document that lists the entire academic record of a student at the university.

**TRANSFER CREDIT** – Course work completed at another institution that is accepted for credit toward a degree at the university.

**UNDERGRADUATE** – A student working toward an associate degree or a baccalaureate degree.



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